

YEAR 12	CLP	DHN	CRE	SMS
<b>Week 1</b> (w/b Wed 7 <sup>th</sup> Sep)	Lesson 1: History of the microscope #1 Lesson 2: History of the microscope #2 Lesson 3: Preparing biological slides #1	Lesson 1: The Mole and reacting masses	Lesson 1: The periodic table, relative atomic mass	Lesson 1: Waves #1
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain Magnification, resolution, lens, refraction, concave, convex	Accuracy, precision Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , concordant	Accuracy, precision Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , concordant	Identify, describe, explain Longitudinal, transverse, compression, rarefaction
<b>Common Misconceptions</b>	The differences between magnification and resolution	The Mole and stoichiometry can be difficult for Combined Science pupils	Confusing atomic number and atomic mass	
<b>Homework</b>	Timeline of history of microscope			
<b>Assessment this half-term</b>	6 mark in class question NHTW grid vocab test Section test B1 wb 10 <sup>th</sup> Oct	6 mark in class question NHTW grid vocab test	6 mark in class question NHTW grid vocab test	6 mark in class question NHTW grid vocab test
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how to view images EMPLOYMENT: Biomedical scientist	LIFE SKILLS: Understanding how to calculate compound masses EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>	LIFE SKILLS: Understanding how to calculate compound masses EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>	LIFE SKILLS: Understanding of how sound travels EMPLOYMENT: Sound engineer, lighting engineer, geophysicist
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive	Aiming high Creativity Leadership Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Appropriate websites and research for homework			
	CLP	DHN	CRE	SMS
<b>Week 2</b> (w/b 12 <sup>th</sup> Sep)	Lesson 1: Preparing biological slides Lesson 2: Electron microscopes Lesson 3: Electron microscopes	Lesson 1: The Mole and reacting masses	Lesson 1: The periodic table, relative atomic mass	Lesson 1: Waves #2
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain Magnification, resolution, lens, refraction, concave, convex	Accuracy, precision Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , concordant	Accuracy, precision Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , concordant	Identify, describe, explain Longitudinal, transverse, compression, rarefaction
<b>Common Misconceptions</b>	The differences between TEM and SEM	The Mole and stoichiometry can be difficult for Combined Science pupils	Confusing atomic number and atomic mass	
<b>Homework</b>	Comparative table electron v light		Development of periodic table	
<b>Assessment this half-term</b>	6 mark in class question NHTW grid vocab test Section test B1 wb 10 <sup>th</sup> Oct	6 mark in class question NHTW grid vocab test	6 mark in class question NHTW grid vocab test	6 mark in class question NHTW grid vocab test
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how to view images EMPLOYMENT: Biomedical scientist	LIFE SKILLS: Understanding how to calculate compound masses EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>	LIFE SKILLS: Understanding how to calculate compound masses EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>	LIFE SKILLS: Understanding of how sound travels EMPLOYMENT: Sound engineer, lighting engineer, geophysicist
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive	Aiming high Creativity Leadership Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework	
	CLP	DHN	CRE	SMS
<b>Week 3</b> (w/b 19 <sup>th</sup> Sep)	Lesson 1: Root tip squash Lesson 2: Root tip squash Lesson 3: Magnification calculations	Lesson 1: The Mole and reacting masses	Lesson 1: Practical – determination of relative atomic mass and formula	Lesson 1: Waves #3 Introducing transverse and longitudinal waves and measuring speed of waves
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain Magnification, resolution, lens, refraction, concave, convex, mitosis, prophase, metaphase, anaphase, telophase	Accuracy, precision Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , concordant	Accuracy, precision Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , concordant	Identify, describe, explain Longitudinal, transverse, compression, rarefaction, speed, velocity, wavelength

<b>Common Misconceptions</b>	Some students struggle to rearrange the magnification equation	Understanding of the Mole as an amount of something, and its relationship to balancing/balanced chemical equations – the pupils taking App Sci tend to be from 11x2-x4 and will have difficulty with this.		
<b>Homework</b>		Practice calculations		Speed of waves practice calculations
<b>Assessment this half-term</b>	6 mark in class question NHTW grid vocab test Section test B1 wb 10 <sup>th</sup> Oct	6 mark in class question NHTW grid vocab test	6 mark in class question NHTW grid vocab test	6 mark in class question NHTW grid vocab test
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Rearranging mathematical formulae EMPLOYMENT: Biomedical scientist	LIFE SKILLS: Understanding how to calculate compound masses EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>	LIFE SKILLS: Practical skills EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>	LIFE SKILLS: Understanding of how sound travels EMPLOYMENT: Sound engineer, lighting engineer, geophysicist
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>		IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework
	CLP	DHN	CRE	SMS
<b>Week 4 (w/b 26<sup>th</sup> Sep)</b>	Lesson 1: Magnification calculations Lesson 2: Structures in a cell Lesson 3: Structures in a cell	Lesson 1: The Mole and reacting masses	Lesson 1: Practical – determination of relative atomic mass and formula	Lesson 1: Waves #4 Transverse and longitudinal waves and measuring speed of waves
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain Magnification, resolution, lens, refraction, concave, convex, mitosis, prophase, metaphase, anaphase, telophase, golgi, mitochondria, chloroplast, endoplasmic reticulum, SER, RER, nucleolus, vesicle, centriole, eukaryote, prokaryote	Accuracy, precision Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , concordant	Accuracy, precision Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , concordant	Identify, describe, explain Longitudinal, transverse, compression, rarefaction, speed, velocity, wavelength
<b>Common Misconceptions</b>	Mixing up components of plant and animal cells	Understanding of the Mole as an amount of something, and its relationship to balancing/balanced chemical equations – the pupils taking App Sci tend to be from 11x2-x4 and will have difficulty with this.		
<b>Homework</b>	Model cell		Mass and formula practice questions	
<b>Assessment this half-term</b>	6 mark in class question NHTW grid vocab test Section test B1 wb 10 <sup>th</sup> Oct	6 mark in class question NHTW grid vocab test	6 mark in class question NHTW grid vocab test	6 mark in class question NHTW grid vocab test
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Mathematical conversions EMPLOYMENT: Biomedical scientist	LIFE SKILLS: Understanding how to calculate compound masses EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>	LIFE SKILLS: Practical skills EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>	LIFE SKILLS: Understanding of how sound travels EMPLOYMENT: Sound engineer, lighting engineer, geophysicist
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework	
	CLP	DHN	CRE	SMS
<b>Week 5 (w/b 3<sup>rd</sup> Oct)</b>	Lesson 1: Cells and their structure Lesson 2: Cells and their structure Lesson 3: Cell structure	Lesson 1: Preparing a standard solution and concentration	Lesson 1: Electronic structure	Lesson 1: Waves #5 Terms related to the understanding of superposition of waves
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain Golgi, mitochondria, chloroplast, endoplasmic reticulum, SER, RER, nucleolus, vesicle, centriole, eukaryote, prokaryote	Accuracy, precision Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , concordant	Shell, sub-shell, energy level	Identify, describe, explain Longitudinal, transverse, compression, rarefaction, speed, velocity, wavelength, superposition, interference, destructive, constructive
<b>Common Misconceptions</b>	Protein synthesis only occurs in the ribosome	Attention to detail with technique – it's not optional	Getting the basic Aufbau principle correct and then extending it to sub-shells	Adding as vectors – noting + and -ve.

<b>Homework</b>		Practice questions		Practice questions
<b>Assessment this half-term</b>	6 mark in class question NHTW grid vocab test Section test B1 wb 10 <sup>th</sup> Oct	6 mark in class question NHTW grid vocab test	6 mark in class question NHTW grid vocab test	6 mark in class question NHTW grid vocab test
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding cell structure EMPLOYMENT: Cellular biologist	LIFE SKILLS: Understanding how to make solutions EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>	LIFE SKILLS: Mathematical skills EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>	LIFE SKILLS: Understanding of how sound travels EMPLOYMENT: Sound engineer, lighting engineer, geophysicist
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>		IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework
	CLP	DHN	CRE	SMS
<b>Week 6 (w/b 10<sup>th</sup> Oct)</b>	Lesson 1: Cell structure Lesson 2: B1 - Section review Lesson 3: B1 - Section assessment	Lesson 1: Preparing a standard solution and concentration – calculate concentration	Lesson 1: Electronic structure	Lesson 1: Waves #6 Terms related to the understanding of superposition of waves
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain Golgi, mitochondria, chloroplast, endoplasmic reticulum, SER, RER, nucleolus, vesicle, centriole, eukaryote, prokaryote	Accuracy, precision Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , concordant	Shell, sub-shell, energy level	Identify, describe, explain Longitudinal, transverse, compression, rarefaction, speed, velocity, wavelength, superposition, interference, destructive, constructive
<b>Common Misconceptions</b>	Identified in assessment			Adding as vectors – noting + and -ve.
<b>Homework</b>	Revision for assessment		s,p,d,f calculations	
<b>Assessment this half-term</b>	6 mark in class question NHTW grid vocab test Section test B1 wb 10 <sup>th</sup> Oct	6 mark in class question NHTW grid vocab test	6 mark in class question NHTW grid vocab test	6 mark in class question NHTW grid vocab test
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Resilience EMPLOYMENT: Biomedical scientist	LIFE SKILLS: Understanding how to make solutions EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>	LIFE SKILLS: Mathematical skills EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>	LIFE SKILLS: Understanding of how sound travels EMPLOYMENT: Sound engineer, lighting engineer, geophysicist
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive	Aiming high Creativity Leadership Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework	
	CLP	DHN	CRE	SMS
<b>Week 7 (w/b 17<sup>th</sup> Oct)</b>	Lesson 1: Exemplars Lesson 2: Hans Christian Gram Lesson 3: Hans Christian Gram	Lesson 1: Preparing a standard solution and concentration – perform dilutions	Lesson 1: Intermolecular Forces	Lesson 1: Waves #7 Diffraction and superposition
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain Safranin, crystal violet, peptidoglycan, periplasmic, cell membrane	Accuracy, precision Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , concordant	Van der Waals, temporary/induced dipole-dipole, permanent dipole-dipole, hydrogen bond	Identify, describe, explain Longitudinal, transverse, compression, rarefaction, speed, velocity, wavelength, superposition, interference, destructive, constructive
<b>Common Misconceptions</b>	Students struggle with remembering the order and function of different stains		The terminology – van der Waals/London and dipole-dipole can be a pain as both are, according to the syllabus, can be used	
<b>Homework</b>		Calculations for concentration		Practice questions
<b>Assessment this half-term</b>	6 mark in class question NHTW grid vocab test Section test B1 wb 10 <sup>th</sup> Oct	6 mark in class question NHTW grid vocab test	6 mark in class question NHTW grid vocab test	6 mark in class question NHTW grid vocab test
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Being able to identify types of bacteria EMPLOYMENT: Microbiologist	LIFE SKILLS: Rearranging mathematical formulae EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>	LIFE SKILLS: Understanding interactions between molecules EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>	LIFE SKILLS: Understanding of how sound travels EMPLOYMENT: Sound engineer, lighting engineer, geophysicist

<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>			IT1 & IT2: Appropriate websites and research for homework				IT1 & IT2: Appropriate websites and research for homework	
	CLP	DHN		CRE		SMS		
<b>Week 8 (w/b Mon 31<sup>st</sup> Oct)</b>	Lesson 1: Specialised cells #1 Lesson 2: Specialised cells #2 Lesson 3: Sex cells #1	Lesson 1: Acid-base titration and volumetric calculation - demo		Lesson 1: Intermolecular Forces		Lesson 1: Waves #7 Diffraction and superposition		
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain Differentiated, epithelial, erythrocyte, gamete, chromosome, genetic inheritance	Identify, describe, explain Acid, base, alkali, titration, neutralisation, burette, pipette		Identify, describe, explain Van der Waals, temporary/induced dipole-dipole, permanent dipole-dipole, hydrogen bond		Identify, describe, explain Longitudinal, transverse, compression, rarefaction, speed, velocity, wavelength, superposition, interference, destructive, constructive		
<b>Common Misconceptions</b>	Stem cells can make any cell	Reading the burette incorrectly		Electronegativity can be useful when identifying the types of IM force present		Waves behave in the same way		
<b>Homework</b>	Cells homework			Forces questions				
<b>Assessment this half-term</b>	B2 test w/b 21 <sup>st</sup> Nov In class 6 mark Q's	Progress test w/b 28 <sup>th</sup> Nov In class 6 mark Q's		Progress test w/b 28 <sup>th</sup> Nov In class 6 mark Q's		In class 6 mark Q's		
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how characteristics are inherited EMPLOYMENT: Geneticist	LIFE SKILLS: Understanding how to determine neutralisation points EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>		LIFE SKILLS: Understanding interactions between molecules EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>		LIFE SKILLS: Understanding of how sound travels EMPLOYMENT: Sound engineer, lighting engineer, geophysicist		
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Appropriate websites and research for homework			IT1 & IT2: Appropriate websites and research for homework				
	CLP	DHN		CRE		SMS		
<b>Week 9 (w/b 7<sup>th</sup> Nov)</b>	Lesson 1: Sex cells #2 Lesson 2: Root hair cells #1 Lesson 3: Root hair cells #2	Lesson 1: Acid-base titration and volumetric calculation - prac		Lesson 1: Intermolecular Forces		Lesson 1: Waves #8 Industrial applications of diffraction gratings and use of wave equation		
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain Differentiated, epithelial, erythrocyte, gamete, chromosome, genetic inheritance	Identify, describe, explain Acid, base, alkali, titration, neutralisation, burette, pipette		Identify, describe, explain Van der Waals, temporary/induced dipole-dipole, permanent dipole-dipole, hydrogen bond		Identify, describe, explain Longitudinal, transverse, compression, rarefaction, speed, velocity, wavelength, superposition, interference, destructive, constructive, diffraction		
<b>Common Misconceptions</b>	Boys characteristics are on the sperm and girls are in the egg	Reading burette incorrectly		Electronegativity can be useful when identifying the types of IM force present		Lambda is a length and is measured in m.		
<b>Homework</b>		Calculations questions				Wave equation practice questions		
<b>Assessment this half-term</b>	B2 test w/b 21 <sup>st</sup> Nov In class 6 mark Q's	Progress test w/b 28 <sup>th</sup> Nov In class 6 mark Q's		Progress test w/b 28 <sup>th</sup> Nov In class 6 mark Q's		In class 6 mark Q's		
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how characteristics are inherited EMPLOYMENT: Geneticist	LIFE SKILLS: Understanding how to determine neutralisation points EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>		LIFE SKILLS: Understanding interactions between molecules EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>		LIFE SKILLS: Understanding of how sound travels EMPLOYMENT: Sound engineer, lighting engineer, geophysicist		
<b>Employability Skills</b>	Aiming high Creativity Leadership Communication Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving	Literacy Numeracy Independence Listening Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>		IT1 & IT2: Appropriate websites and research for homework				IT1 & IT2: Appropriate websites and research for homework		

	CLP	DHN	CRE	SMS
<b>Week 10 (w/b 14<sup>th</sup> Nov)</b>	Lesson 1: Structure and function of the blood #1 Lesson 2: Structure and function of the blood #2 Lesson 3: White blood cells	Lesson 1: Acid-base titration and volumetric calculation - prac	Lesson 1: Physical properties of period 2 and 3 elements	Lesson 1: Waves #9 Industrial applications of diffraction gratings and use of wave equation
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain Erythrocyte, lymphocyte, phagocyte, platelet, plasma, photomicrograph	Identify, describe, explain Acid, base, alkali, titration, neutralisation, burette, pipette	Identify, describe, explain Melting point, boiling point, bond energy, ionisation energy, kJmol <sup>-1</sup>	Identify, describe, explain Longitudinal, transverse, compression, rarefaction, speed, velocity, wavelength, superposition, interference, destructive, constructive, diffraction
<b>Common Misconceptions</b>	That the blood is just red blood cells	Conversions	Linking trends to bonding	Lambda is a length and is measured in m.
<b>Homework</b>	Revision for unit B2 test		Period 2 and 3 summaries	
<b>Assessment this half- term</b>	B2 test w/b 21 <sup>st</sup> Nov In class 6 mark Q's	Progress test w/b 28 <sup>th</sup> Nov In class 6 mark Q's	Progress test w/b 28 <sup>th</sup> Nov In class 6 mark Q's	In class 6 mark Q's
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding the role of the blood EMPLOYMENT: Phlebotomist	LIFE SKILLS: Understanding how to determine neutralisation points EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced- apprentice-forensics/4010810.article</a>	LIFE SKILLS: Understanding how properties are linked to uses EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced- apprentice-forensics/4010810.article</a>	LIFE SKILLS: Understanding of how sound travels EMPLOYMENT: Sound engineer, lighting engineer, geophysicist
<b>Employability Skills</b>	Aiming high      Literacy Creativity      Numeracy Leadership      Independence      Listening Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy Creativity      Numeracy Leadership      Independence      Listening Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy Creativity      Numeracy Leadership      Independence      Listening Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy Creativity      Numeracy Leadership      Independence Listening      Communication Presenting      Teamwork Problem solving      Staying positive
<b>IT Skills</b>	IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework	
	CLP	DHN	CRE	SMS
<b>Week 11 (w/b 21<sup>st</sup> Nov)</b>	Lesson 1: B2 Section review Lesson 2: B2 Section test Lesson 3: B2 Exemplars	Lesson 1: Section review	Lesson 1: Section review	Lesson 1: Waves #10 Progressive and stationary resonance
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, compare contrast	Identify, describe, explain, compare contrast	Identify, describe, explain, compare contrast	Identify, describe, explain Longitudinal, transverse, compression, rarefaction, speed, velocity, wavelength, superposition, interference, destructive, constructive, diffraction, node, antinode
<b>Common Misconceptions</b>	Identified in B2 test	Identified through questioning	Identified through questioning	Waves behave in the same way
<b>Homework</b>		Revise for mid unit test		Resonance practice questions
<b>Assessment this half- term</b>	B2 test w/b 21 <sup>st</sup> Nov In class 6 mark Q's	Progress test w/b 28 <sup>th</sup> Nov In class 6 mark Q's	Progress test w/b 28 <sup>th</sup> Nov In class 6 mark Q's	In class 6 mark Q's
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding of how sound travels EMPLOYMENT: Sound engineer, lighting engineer, geophysicist
<b>Employability Skills</b>	Aiming high      Literacy Creativity      Numeracy Leadership      Independence      Listening Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy Creativity      Numeracy Leadership      Independence      Listening Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy Creativity      Numeracy Leadership      Independence      Listening Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy Creativity      Numeracy Leadership      Independence Listening      Communication Presenting      Teamwork Problem solving      Staying positive
<b>IT Skills</b>		IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework
	CLP	DHN	CRE	SMS
<b>Week 12 (w/b 28<sup>th</sup> Nov)</b>	Lesson 1: Epithelial cells #1 Lesson 2: Epithelial cells #2 Lesson 3: Pulmonary system #1	Lesson 1: Progress check test	Lesson 1: Progress check test	Lesson 1: Waves #11 Progressive and stationary resonance
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain Epithelial, squamous, fibrogen, tissue, connective, bronchi, pulmonary, bronchiole, spirometer, alveoli, intercostal, diaphragm	Identify, describe, explain, compare contrast	Identify, describe, explain, compare contrast	Identify, describe, explain Longitudinal, transverse, compression, rarefaction, speed, velocity, wavelength, superposition, interference, destructive, constructive, diffraction, node, antinode
<b>Common Misconceptions</b>	That all tissues have the same structure	Identified from test	Identified from test	Waves behave in the same way
<b>Homework</b>	Pulmonary system homework			

<b>Assessment this half-term</b>	In class 6 mark Q's	Progress test w/b 28 <sup>th</sup> Nov In class 6 mark Q's	Progress test w/b 28 <sup>th</sup> Nov In class 6 mark Q's	In class 6 mark Q's
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding the structure of the skin EMPLOYMENT: Dermatologist	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding of how sound travels EMPLOYMENT: Sound engineer, lighting engineer, geophysicist
<b>Employability Skills</b>	<b>Aiming high</b> Creativity Leadership <b>Communication</b> Presenting Problem solving <b>Literacy</b> Numeracy Independence <b>Listening</b> Teamwork Staying positive	<b>Aiming high</b> Creativity Leadership <b>Communication</b> Presenting Problem solving <b>Literacy</b> Numeracy Independence <b>Listening</b> Teamwork Staying positive	<b>Aiming high</b> Creativity Leadership <b>Communication</b> Presenting Problem solving <b>Literacy</b> Numeracy Independence <b>Listening</b> Teamwork Staying positive	<b>Aiming high</b> Creativity Leadership <b>Listening</b> Presenting Problem solving <b>Literacy</b> Numeracy Independence <b>Communication</b> Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Appropriate websites and research for homework			
	CLP	DHN	CRE	SMS
<b>Week 13 (w/b 5<sup>th</sup> Dec)</b>	Lesson 1: Pulmonary system #2 Lesson 2: Arteries and veins #1 Lesson 3: Arteries and veins #2	Lesson 1: Acid-base titration and volumetric calculation - calculations	Lesson 1: Physical properties of period 2 and 3 elements – compare Period 2 with Period 3	Lesson 1: Waves #12 Musical instruments and the calculation of the speed of waves on a string
<b>Key Words Level 2 Level 3</b>	<b>Identify, describe, explain</b> Bronchi, pulmonary, bronchiole, spirometer, alveoli, intercostal, diaphragm, artery, arteriole, vein, capillary, lumen, oxygenated	<b>Identify, describe, explain</b> Acid, base, alkali, titration, neutralisation, burette, pipette	<b>Identify, describe, explain</b> Melting point, boiling point, bond energy, ionisation energy, $\text{kJmol}^{-1}$	<b>Identify, describe, explain</b> Longitudinal, transverse, compression, rarefaction, speed, velocity, wavelength, superposition, interference, destructive, constructive, diffraction, node, antinode
<b>Common Misconceptions</b>	That respiration is breathing	Conversions	Linking trends to bonding	Waves behave in the same way
<b>Homework</b>		Calculations practice		Speed of waves calculations
<b>Assessment this half-term</b>	In class 6 mark Q's	In class 6 mark Q's	In class 6 mark Q's	In class 6 mark Q's
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how we breathe EMPLOYMENT: Asthma nurse	LIFE SKILLS: Mathematical skills EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article">https://edu.rsc.org/job-profiles/advanced-apprentice-forensics/4010810.article</a>	LIFE SKILLS: Understanding how properties and uses are linked EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/forensic-scientist/4010920.article">https://edu.rsc.org/job-profiles/forensic-scientist/4010920.article</a>	LIFE SKILLS: Understanding of how sound travels EMPLOYMENT: Sound engineer, lighting engineer, geophysicist
<b>Employability Skills</b>	<b>Aiming high</b> Creativity Leadership <b>Communication</b> Presenting Problem solving <b>Literacy</b> Numeracy Independence <b>Listening</b> Teamwork Staying positive	<b>Aiming high</b> Creativity Leadership <b>Communication</b> Presenting Problem solving <b>Literacy</b> Numeracy Independence <b>Listening</b> Teamwork Staying positive	<b>Aiming high</b> Creativity Leadership <b>Communication</b> Presenting Problem solving <b>Literacy</b> Numeracy Independence <b>Listening</b> Teamwork Staying positive	<b>Aiming high</b> Creativity Leadership <b>Listening</b> Presenting Problem solving <b>Literacy</b> Numeracy Independence <b>Communication</b> Teamwork Staying positive
<b>IT Skills</b>		IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework
	CLP	DHN	CRE	SMS
<b>Week 14 (w/b 12<sup>th</sup> Dec)</b>	Lesson 1: Cardiovascular and respiratory diseases #1 Lesson 2: Cardiovascular and respiratory diseases #2 Lesson 3: Sliding filament theory #1	Lesson 1: Ionic Bonding and Formulae	Lesson 1: Chemical properties of period 2 and 3 elements (reaction with oxygen)	Lesson 1: Waves #13 Musical instruments and the calculation of the speed of waves on a string
<b>Key Words Level 2 Level 3</b>	<b>Identify, describe, explain</b> Emphysema, disease, pulmonary, myosin, actin, filament, ATP	<b>Identify, describe, explain</b> Oxidation, reduction, electrostatic attraction	<b>Identify, describe, explain</b> Melting point, boiling point, bond energy, ionisation energy, $\text{kJmol}^{-1}$ , oxidation	<b>Identify, describe, explain</b> Longitudinal, transverse, compression, rarefaction, speed, velocity, wavelength, superposition, interference, destructive, constructive, diffraction, node, antinode
<b>Common Misconceptions</b>	That smoking only affects the lungs	Balancing compounds using oxidation number can be useful, but understanding of compound ions can be difficult	All react on the same way with oxygen	Waves behave in the same way
<b>Homework</b>	Cardiovascular homework		Equations homework	
<b>Assessment this half-term</b>	In class 6 mark Q's	In class 6 mark Q's	In class 6 mark Q's	In class 6 mark Q's
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding the effect of smoking on the whole body EMPLOYMENT: Asthma nurse	LIFE SKILLS: Understanding how to determine formulae from ions EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/forensic-scientist/4010920.article">https://edu.rsc.org/job-profiles/forensic-scientist/4010920.article</a>	LIFE SKILLS: Understanding how things react with oxygen EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/forensic-scientist/4010920.article">https://edu.rsc.org/job-profiles/forensic-scientist/4010920.article</a>	LIFE SKILLS: Understanding of how sound travels EMPLOYMENT: Sound engineer, lighting engineer, geophysicist
<b>Employability Skills</b>	<b>Aiming high</b> Creativity Leadership Listening Presenting <b>Problem solving</b> <b>Literacy</b> Numeracy Independence <b>Communication</b> Teamwork Staying positive	<b>Aiming high</b> Creativity Leadership Listening Presenting Problem solving <b>Literacy</b> Numeracy Independence <b>Communication</b> Teamwork Staying positive	<b>Aiming high</b> Creativity Leadership Listening Presenting Problem solving <b>Literacy</b> Numeracy Independence <b>Communication</b> Teamwork Staying positive	<b>Aiming high</b> Creativity Leadership <b>Listening</b> Presenting Problem solving <b>Literacy</b> Numeracy Independence <b>Communication</b> Teamwork Staying positive

IT Skills	IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework	
	CLP	DHN	CRE	SMS
<b>Week 15</b> (w/b 19 <sup>th</sup> Dec) End of term Wednesday 20 <sup>th</sup> December	Lesson 1: Sliding filament theory #2 Lesson 2: X Lesson 3: X	Lesson 1: Ionic Bonding and Formulae	Lesson 1: X	Lesson 1: X
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain Myosin, actin, filament, ATP	Identify, describe, explain Oxidation, reduction, electrostatic attraction		
<b>Common Misconceptions</b>	That muscles all work in pairs	Balancing compounds using oxidation number can be useful, but understanding of compound ions can be difficult		
<b>Homework</b>		Formulae practice questions		
<b>Assessment this half-term</b>	In class 6 mark Q's	In class 6 mark Q's		
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how muscles work EMPLOYMENT: Physiotherapist, personal trainer	LIFE SKILLS: Understanding how to determine formulae from ions EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/forensic-scientist/4010920.article">https://edu.rsc.org/job-profiles/forensic-scientist/4010920.article</a>		
<b>Employability Skills</b>	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening		
<b>IT Skills</b>		IT1 & IT2: Appropriate websites and research for homework		
	CLP	DHN	CRE	SMS
<b>Week 16</b> (w/b Wed 4 <sup>th</sup> Jan)	Lesson 1: ECG traces #1 Lesson 2: ECG traces #2 Lesson 3: Nervous system #1 - neurones	Lesson 1: Covalent Bonding	Lesson 1: Chemical properties of period 2 and 3 elements (reaction with oxygen) – oxidation and reduction/equation writing	Lesson 1: Waves #14 Using equations on the speed of waves and how waves produce notes from vibrating air columns
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain, explore, compare, evaluate Diastole, systole, ventricle, atrium, septum, bundle of His, depolarisation, repolarisation, purkynje fibres, SAN, AVN, neurone, axon, dendrite	Identify, describe, explain, explore, compare, evaluate, sharing, small molecule Covalent, inter molecular, intra molecular, electron	Identify, describe, explain, explore, compare, evaluate Melting point, boiling point, bond energy, ionisation energy, kJmol <sup>-1</sup> , oxidation	Identify, describe, explain, explore, compare, evaluate Longitudinal, transverse, compression, rarefaction, speed, velocity, wavelength, superposition, interference, destructive, constructive, diffraction, node, antinode
<b>Common Misconceptions</b>	That defibrillators can be used on any heart issue	Some confusion between ionic and covalent bonding is expected, as is the combination of the electronic structures of atoms into one electronic structure for the molecule.		Confusion between speed of sound and light
<b>Homework</b>	Identifying issues from ECGs worksheet		Equation practice questions	
<b>Assessment this half-term</b>	B3 section test Biology mock exam	In class 6 mark questions	In class 6 mark questions	In class 6 mark questions
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how to read an ECG EMPLOYMENT: Paramedic, nurse, doctor	LIFE SKILLS: Understanding how non-metals bond EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/forensic-scientist/4010920.article">https://edu.rsc.org/job-profiles/forensic-scientist/4010920.article</a>	LIFE SKILLS: Understanding how things react with oxygen EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/forensic-scientist/4010920.article">https://edu.rsc.org/job-profiles/forensic-scientist/4010920.article</a>	LIFE SKILLS: Understanding of how sound travels EMPLOYMENT: Sound engineer, lighting engineer, geophysicist
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework	
	CLP	DHN	CRE	SMS
<b>Week 17</b> (w/b 9 <sup>th</sup> Jan)	Lesson 1: Nervous system #2 - axons Lesson 2: Nervous system #3 - synapses Lesson 3: Myelin sheath #1	Lesson 1: Covalent Bonding	Lesson 1: Variable oxidation states of TMs – electronic structure	Lesson 1: Waves #15 Using equations on the speed of waves and how waves produce notes from vibrating air columns

<b>Key Words</b> Level 2 Level 3	Identify, describe, explain, explore, compare, evaluate Depolarisation, repolarisation, neurone, axon, dendrite, synapse, neurotransmitter, acetylcholine, myelinated, synaptic cleft, pre synaptic knob, post synaptic knob	Identify, describe, explain, explore, compare, evaluate, sharing, small molecule Covalent, inter molecular, intra molecular, electron	Identify, describe, explain, explore, compare, evaluate d-shell, ligand	Identify, describe, explain, explore, compare, evaluate Longitudinal, transverse, compression, rarefaction, speed, velocity, wavelength, superposition, interference, destructive, constructive, diffraction, node, antinode
<b>Common Misconceptions</b>	All neurones are the same	Some confusion between ionic and covalent bonding is expected, as is the combination of the electronic structures of atoms into one electronic structure for the molecule.	Aufbau principle and adding/removing 4s electrons first rather than 3d electrons	Confusion between speed of sound and light
<b>Homework</b>		Drawing covalent bonding task		Equations practice questions
<b>Assessment this half-term</b>	B3 section test Biology mock exam	In class 6 mark questions	In class 6 mark questions	In class 6 mark questions
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how reflexes work EMPLOYMENT: Physiotherapist	LIFE SKILLS: Understanding how non-metals bond EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/forensic-scientist/4010920.article">https://edu.rsc.org/job-profiles/forensic-scientist/4010920.article</a>	LIFE SKILLS: Understanding hoe electrons are arranged EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/consumer-products-technician/4010850.article">https://edu.rsc.org/job-profiles/consumer-products-technician/4010850.article</a>	LIFE SKILLS: Understanding of how sound travels EMPLOYMENT: Sound engineer, lighting engineer, geophysicist
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>		IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework
	CLP	DHN	CRE	SMS
<b>Week 18</b> <b>(w/b 16<sup>th</sup> Jan)</b>	Lesson 1: Myelin sheath #2 Lesson 2: Action potential Lesson 3: Resting potential	Lesson 1: Bonding and Structure Investigation	Lesson 1: Variable oxidation states of TMs – displacement reactions	Lesson 1: Waves #16 Refractive index
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain, explore, compare, evaluate Depolarisation, repolarisation, neurone, axon, dendrite, synapse, neurotransmitter, acetylcholine, myelinated, synaptic cleft, pre synaptic knob, post synaptic knob	Identify, describe, explain, explore, compare, evaluate Subject specific keywords taken from HT1 & HT2	Identify, describe, explain, explore, compare, evaluate d-shell, ligand, displacement	Identify, describe, explain, explore, compare, evaluate Refractive index, incident, reflected ray, refracted ray, total internal reflection, normal, angle of reflection, angle of incidence
<b>Common Misconceptions</b>	All neurones have myelin			Difference between reflect and refract
<b>Homework</b>	Synaptic transmission question		Displacement reaction practice questions	
<b>Assessment this half-term</b>	B3 section test Biology mock exam	In class 6 mark questions	In class 6 mark questions	In class 6 mark questions
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how reflexes work EMPLOYMENT: Physiotherapist	LIFE SKILLS: Understanding how to plan investigations EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/senior-analytical-systems-technician/4010828.article">https://edu.rsc.org/job-profiles/senior-analytical-systems-technician/4010828.article</a>	LIFE SKILLS: Understanding how metals react EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/consumer-products-technician/4010850.article">https://edu.rsc.org/job-profiles/consumer-products-technician/4010850.article</a>	LIFE SKILLS: Understanding of how light travels, how we see and how fibre optic cables work EMPLOYMENT: Lighting Engineer, Fibre Optic Cable Engineer, Seismic Geophysicist, Seismologist
<b>Employability Skills</b>	Aiming high Creativity Leadership Communication Presenting Problem solving Staying positive Literacy Numeracy Independence Listening Teamwork	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework	
	CLP	DHN	CRE	SMS
<b>Week 19</b> <b>(w/b 23<sup>rd</sup> Jan)</b>	Lesson 1: Brain structure Lesson 2: Chemical effects on the brain Lesson 3: B3 Section review	Lesson 1: Bonding and Structure Investigation	Lesson 1: Group 1 and 7 reactivity – alkali and alkaline earth metals with <b>water</b> and displacement reactions	Lesson 1: Waves #17 Refractive index
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain, explore, compare, evaluate Depolarisation, repolarisation, neurone, axon, dendrite, synapse, neurotransmitter, acetylcholine, myelinated, synaptic cleft, pre synaptic knob, post synaptic knob, cerebellum, cerebrum, medulla, hypothalamus, serotonin, dopamine	Identify, describe, explain, explore, compare, evaluate Subject specific keywords taken from HT1 & HT2	Identify, describe, explain, explore, compare, evaluate Alkali, hydroxide, oxide	Identify, describe, explain, explore, compare, evaluate Refractive index, incident, reflected ray, refracted ray, total internal reflection, normal, angle of reflection, angle of incidence
<b>Common Misconceptions</b>	The effects of drugs on the brain		Balancing, getting hydroxide formulae correct	
<b>Homework</b>		Investigation research and write up		Refractive index diagrams and calculations
<b>Assessment this half-term</b>	B3 section test Biology mock exam	In class 6 mark questions	In class 6 mark questions	In class 6 mark questions



<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how different drugs can affect the brain EMPLOYMENT: Counsellor	LIFE SKILLS: Understanding how to plan investigations EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/senior-analytical-systems-technician/4010828.article">https://edu.rsc.org/job-profiles/senior-analytical-systems-technician/4010828.article</a>	LIFE SKILLS: Understanding reactivity EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/consumer-products-technician/4010850.article">https://edu.rsc.org/job-profiles/consumer-products-technician/4010850.article</a>	LIFE SKILLS: Understanding of how light travels, how we see and how fibre optic cables work EMPLOYMENT: Lighting Engineer, Fibre Optic Cable Engineer, Seismic Geophysicist, Seismologist
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>		IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework
	CLP	DHN	CRE	SMS
<b>Week 20 (w/b 30<sup>th</sup> Jan)</b>	Lesson 1: B3 Section test Lesson 2: Unit review Lesson 3: Unit review	Lesson 1: Reactions of metals with acids	Lesson 1: Group 1 and 7 reactivity – alkali and alkaline earth metals with water and <b>displacement reactions</b>	Lesson 1: Waves #18 Total internal reflection, critical angle
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate Taken from all keywords identified from HT1-3	Identify, describe, explain, explore, compare, evaluate Oxidation, reduction, oxidation number	Identify, describe, explain, explore, compare, evaluate Alkali, hydroxide, oxide	Identify, describe, explain, explore, compare, evaluate Refractive index, incident, reflected ray, refracted ray, total internal reflection, normal, angle of reflection, angle of incidence, critical angle
<b>Common Misconceptions</b>	Identified in test		Balancing, getting hydroxide formulae correct	
<b>Homework</b>	Revision for mock and feedback from B3 test		Displacement reaction equations	
<b>Assessment this half-term</b>	B3 section test Biology mock exam	In class 6 mark questions	In class 6 mark questions	In class 6 mark questions
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Organisation and preparation EMPLOYMENT: Nurse, physiotherapist, research scientist	LIFE SKILLS: Understanding how metals react EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/senior-analytical-systems-technician/4010828.article">https://edu.rsc.org/job-profiles/senior-analytical-systems-technician/4010828.article</a>	LIFE SKILLS: Understanding reactivity EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/consumer-products-technician/4010850.article">https://edu.rsc.org/job-profiles/consumer-products-technician/4010850.article</a>	LIFE SKILLS: Understanding of how light travels, how we see and how fibre optic cables work EMPLOYMENT: Lighting Engineer, Fibre Optic Cable Engineer, Seismic Geophysicist, Seismologist
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework	
	CLP	DHN	CRE	SMS
<b>Week 21 (w/b 6<sup>th</sup> Feb)</b>	Lesson 1: Biology mock exam Lesson 2: Exemplars Lesson 3: Feedback	Lesson 1: Reactions of metals with acids	Lesson 1: Group 1 and 7 reactivity – alkali and alkaline earth metals with water and displacement reactions – equation writing practice	Lesson 1: Waves #19 Total internal reflection, critical angle
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate Taken from all keywords identified from HT1-3	Identify, describe, explain, explore, compare, evaluate Oxidation, reduction, oxidation number	Identify, describe, explain, explore, compare, evaluate Alkali, hydroxide, oxide	Identify, describe, explain, explore, compare, evaluate Refractive index, incident, reflected ray, refracted ray, total internal reflection, normal, angle of reflection, angle of incidence, critical angle
<b>Common Misconceptions</b>	Identified in test		→Rather than =	
<b>Homework</b>		Equations practice		Reflection and refraction questions
<b>Assessment this half-term</b>	B3 section test Biology mock exam	In class 6 mark questions	In class 6 mark questions	In class 6 mark questions
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Organisation and preparation EMPLOYMENT: Nurse, physiotherapist, research scientist	LIFE SKILLS: Understanding how metals react EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/senior-analytical-systems-technician/4010828.article">https://edu.rsc.org/job-profiles/senior-analytical-systems-technician/4010828.article</a>	LIFE SKILLS: Understanding how to interpret equations EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/consumer-products-technician/4010850.article">https://edu.rsc.org/job-profiles/consumer-products-technician/4010850.article</a>	LIFE SKILLS: Understanding of how light travels, how we see and how fibre optic cables work EMPLOYMENT: Lighting Engineer, Fibre Optic Cable Engineer, Seismic Geophysicist, Seismologist
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>		IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework

	CLP	DHN	CRE	SMS
<b>Week 22</b> (w/b 13th Feb)	Lesson 1: Waves – Use of command words, prefixes, units, symbols and equations Lesson 2: Waves – Use of command words, prefixes, units, symbols and equations Lesson 3: Waves – Use of command words, prefixes, units, symbols and equations	Lesson 1: Reaction of metals - displacement	Lesson 1: Section review	Lesson 1: Waves #20 Electromagnetic waves and inverse square law for intensity
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain, explore, compare, evaluate Physics keywords from HT1-3 with SMS	Identify, describe, explain, explore, compare, evaluate Oxidation, reduction, oxidation number	Identify, describe, explain, explore, compare, evaluate	Identify, describe, explain, explore, compare, evaluate Intensity, lumens, power, watts, Freznel
<b>Common Misconceptions</b>	Students mix quantity symbols and symbols and units in equations		Identified through questioning	
<b>Homework</b>	Review command words and physics equations worksheet		Revision for section	
<b>Assessment this half-term</b>	In class 6 mark questions	In class 6 mark questions	In class 6 mark questions	In class 6 mark questions
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Planning a revision schedule, working to deadlines, coping with exam stress EMPLOYMENT: Lighting engineer, electrician (designing lighting of a house), lighthouse design for shipping/navigation.	LIFE SKILLS: Understanding how metals react EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/senior-analytical-systems-technician/4010828.article">https://edu.rsc.org/job-profiles/senior-analytical-systems-technician/4010828.article</a>	LIFE SKILLS: Revision skills EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/consumer-products-technician/4010850.article">https://edu.rsc.org/job-profiles/consumer-products-technician/4010850.article</a>	LIFE SKILLS: Understanding of how light travels, appropriate light bulb for situation in the home EMPLOYMENT: Lighting engineer, electrician (designing lighting of a house), lighthouse design for shipping/navigation.
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework	
	CLP	DHN	CRE	SMS
<b>Week 23</b> (w/b 27th Feb)	Lesson 1: Physics unit revision Lesson 2: Physics unit revision Lesson 3: Physics unit revision	Lesson 1: Reactions of metals - displacement	Lesson 1: Section review	Lesson 1: Waves #21 Electromagnetic waves and inverse square law for intensity
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain, explore, compare, evaluate Subject specific keywords from HT1 – HT3	Identify, describe, explain, explore, compare, evaluate Oxidation, reduction, oxidation number	Identify, describe, explain, explore, compare, evaluate Subject specific keywords from HT1 – HT3	Identify, describe, explain, explore, compare, evaluate Intensity, lumens, power, watts, Freznel
<b>Common Misconceptions</b>	Identified through questioning		Identified through questioning	
<b>Homework</b>		Revision sheets for mock		Inverse square practice questions
<b>Assessment this half-term</b>	Mock exams for unit 1 biology, chemistry and physics			
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Revision skills, organisation and resilience EMPLOYMENT: Research scientist	LIFE SKILLS: EMPLOYMENT:	LIFE SKILLS: Revision skills, organisation and resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding of how light travels, appropriate light bulb for situation in the home EMPLOYMENT: Lighting engineer, electrician (designing lighting of a house), lighthouse design for shipping/navigation.
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>		IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework
	CLP	DHN	CRE	SMS
<b>Week 24</b> (w/b 6th Mar)	Lesson 1: Physics section 1 test Lesson 2: Exemplars Lesson 3: Feedback	Lesson 1: Section review	Lesson 1: Section test	Lesson 1: Waves #22 Wave intensity, inverse square law, communication
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain, explore, compare, evaluate Subject specific keywords from HT1 – HT3	Identify, describe, explain, explore, compare, evaluate Subject specific keywords from HT1 – HT3	Identify, describe, explain, explore, compare, evaluate Subject specific keywords from HT1 – HT3	Identify, describe, explain, explore, compare, evaluate Intensity, lumens, power, watts, Freznel

<b>Common Misconceptions</b>	Identified from assessment			Fibre optic cables are made of glass
<b>Homework</b>	Revision sheets for mock		Revision sheets for mock	
<b>Assessment this half-term</b>	Mock exams for unit 1 biology, chemistry and physics			
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Revision skills, organisation and resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Revision skills, organisation and resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Revision skills, organisation and resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding of how light travels, appropriate light bulb for situation in the home EMPLOYMENT: Lighting engineer, electrician (designing lighting of a house), lighthouse design for shipping/navigation.
<b>Employability Skills</b>	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework	
	CLP	DHN	CRE	SMS
<b>Week 25 (w/b 13<sup>th</sup> Mar)</b>	Lesson 1: Physics mock Lesson 2: Exemplars Lesson 3: Feedback	Lesson 1: Section test	Lesson 1: Exemplars	Lesson 1: Waves #22 Wave intensity, inverse square law, communication
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate Subject specific keywords from HT1 – HT3	Identify, describe, explain, explore, compare, evaluate Subject specific keywords from HT1 – HT3	Identify, describe, explain, explore, compare, evaluate Subject specific keywords from HT1 – HT3	Identify, describe, explain, explore, compare, evaluate intensity, lumens, power, watts, Fresnel
<b>Common Misconceptions</b>	Identified from assessment			Fibre optic cables are made of glass
<b>Homework</b>		Revision sheets for mock		Revision sheets for mock
<b>Assessment this half-term</b>	Mock exams for unit 1 biology, chemistry and physics			
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Revision skills, organisation and resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Revision skills, organisation and resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Revision skills, organisation and resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding of how light travels, appropriate light bulb for situation in the home EMPLOYMENT: Lighting engineer, electrician (designing lighting of a house), lighthouse design for shipping/navigation.
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>		IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework
	CLP	DHN	CRE	SMS
<b>Week 26 (w/b 20<sup>th</sup> Mar)</b>	<b>WORK EXPERIENCE</b>			
	CLP	DHN	CRE	SMS
<b>Week 27 (w/b 27<sup>th</sup> Mar)</b>	Lesson 1: Mock exam Biology Lesson 2: Biology exemplars Lesson 3: Physics exemplars	Lesson 1: Chemistry mock	Lesson 1: Chemistry exemplar	Lesson 1: Physics mock
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate Subject specific keywords from HT1 – HT3	Identify, describe, explain, explore, compare, evaluate Subject specific keywords from HT1 – HT3	Identify, describe, explain, explore, compare, evaluate Subject specific keywords from HT1 – HT3	Identify, describe, explain, explore, compare, evaluate Subject specific keywords from HT1 – HT3
<b>Common Misconceptions</b>	Identified from assessment			
<b>Homework</b>	Revision for Unit 1 exam		Revision for Unit 1 exam	

Assessment this half-term	Mock exams for unit 1 biology, chemistry and physics			
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Revision skills, organisation and resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Revision skills, organisation and resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Revision skills, organisation and resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Revision skills, organisation and resilience EMPLOYMENT: Research scientist
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Appropriate websites and research for homework		IT1 & IT2: Appropriate websites and research for homework	
	CLP	DHN	CRE	SMS
<b>Week 28 (w/b 17<sup>th</sup> Apr)</b>	Lesson 1: Unit 2: Assignment C: Polarity and size in chromatographic separations Lesson 2: Unit 2: Assignment C: Felt tip pen chromatography Lesson 3: Unit 2: Assignment C: Demo – extraction of herb pigment	Lesson 1: Unit 2: Assignment A: Assignment out – one does titration, one does colorimetry, as per personal preference	Lesson 1: Unit 2: Assignment A: Assignment out – one does titration, one does colorimetry, as per personal preference	Lesson 1: Unit 2: Assignment B: Collection of cooling curve data using a given method
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate Chromatography, mobile, stationary, polarity, chlorophyll	Identify, describe, explain, explore, compare, evaluate Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve		Identify, describe, explain, explore, compare, evaluate, reliable, molten, accuracy, calibration Calorimetry
<b>Common Misconceptions</b>	What polarity means	As per misconceptions in titration work, Pupils need to be careful when performing standard solution dilutions; it's quite easy to get confused and end up diluting the wrong thing		Correctly plotting graphs with accuracy and precision
<b>Homework</b>	Write up practical work	C/W research and write up		Cooling curve questions
<b>Assessment this half-term</b>	Practical write up: plant pigment TLC Practical write up: plant pigment paper Practical write up: amino acids	U2 LAA: Write up draft due 26 <sup>th</sup> May		Practical write up: Cooling curves
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to separate substances EMPLOYMENT: Chemical engineer, food standards operative	LIFE SKILLS: Understanding how to analytically evaluate and calibrate equipment EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article">https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article</a>		LIFE SKILLS: Understanding how to plot and interpret graphs EMPLOYMENT: Engineer
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive		Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Research for practical work and homework activities			
	CLP	DHN	CRE	SMS
<b>Week 29 (w/b 24<sup>th</sup> Apr)</b>	Lesson 1: Unit 2: Assignment C: Practical – Using different polar solvents to extract pigment Lesson 2: Unit 2: Assignment C: Practical – Using different polar solvents to extract pigment Lesson 3: Unit 2: Assignment C: Practical – Using TLC to separate pigment	Lesson 1: Unit 2: Assignment A: Practical	Lesson 1: Unit 2: Assignment A: Practical	Lesson 1: Unit 2: Assignment B: Plotting and interpreting cooling curves
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate Chromatography, mobile, stationary, polarity, chlorophyll	Identify, describe, explain, explore, compare, evaluate Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve		Identify, describe, explain, explore, compare, evaluate, reliable, molten, accuracy, calibration Calorimetry
<b>Common Misconceptions</b>	What polarity means	As per misconceptions in titration work, Pupils need to be careful when performing standard solution dilutions; it's quite easy to get confused and end up diluting the wrong thing		Correctly plotting graphs with accuracy and precision
<b>Homework</b>	Write up practical work	C/W research and write up		Graph work

<b>Assessment this half-term</b>	Practical write up: plant pigment TLC Practical write up: plant pigment paper Practical write up: amino acids	U2 LAA: Write up draft due 26 <sup>th</sup> May	Practical write up: Cooling curves
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to separate substances EMPLOYMENT: Chemical engineer, food standards operative	LIFE SKILLS: Understanding how to analytically evaluate and calibrate equipment EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article">https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article</a>	LIFE SKILLS: Understanding how to plot and interpret graphs EMPLOYMENT: Engineer
<b>Employability Skills</b>	<b>Aiming high</b> Creativity Leadership Listening Presenting <b>Problem solving</b>	<b>Literacy</b> <b>Numeracy</b> Independence <b>Communication</b> Teamwork Staying positive	<b>Aiming high</b> Creativity Leadership Listening Presenting <b>Problem solving</b>
<b>IT Skills</b>	IT1 & IT2: Research for practical work and homework activities		
	CLP	DHN	SMS
<b>Week 30 (w/b Tues 2<sup>nd</sup> May)</b>	Lesson 1: Unit 2: Assignment C: Practical – Using paper chromatography to extract pigment Lesson 2: Unit 2: Assignment C: Analysis of chromatograms Lesson 3: Unit 2: Assignment C: Discussion of amino acids	Lesson 1: Unit 2: Assignment A: Practical	Lesson 1: Unit 2: Assignment A: Practical
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate Chromatography, mobile, stationary, polarity, chlorophyll	Identify, describe, explain, explore, compare, evaluate Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve	Identify, describe, explain, explore, compare, evaluate, reliable, molten, accuracy, calibration Calorimetry
<b>Common Misconceptions</b>	What polarity means	As per misconceptions in titration work, Pupils need to be careful when performing standard solution dilutions; it's quite easy to get confused and end up diluting the wrong thing	Correctly plotting graphs with accuracy and precision
<b>Homework</b>	Write up practical work	C/W research and write up	Graph work
<b>Assessment this half-term</b>	Practical write up: plant pigment TLC Practical write up: plant pigment paper Practical write up: amino acids	U2 LAA: Write up draft due 26 <sup>th</sup> May	Practical write up: Cooling curves
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to separate substances EMPLOYMENT: Chemical engineer, food standards operative	LIFE SKILLS: Understanding how to analytically evaluate and calibrate equipment EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article">https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article</a>	LIFE SKILLS: Understanding how to plot and interpret graphs EMPLOYMENT: Engineer
<b>Employability Skills</b>	<b>Aiming high</b> Creativity Leadership Listening Presenting <b>Problem solving</b>	<b>Literacy</b> <b>Numeracy</b> Independence <b>Communication</b> Teamwork Staying positive	<b>Aiming high</b> Creativity Leadership Listening Presenting <b>Problem solving</b>
<b>IT Skills</b>	IT1 & IT2: Research for practical work and homework activities		
	CLP	DHN	SMS
<b>Week 31 (w/b 8<sup>th</sup> May)</b>	Lesson 1: Unit 2: Assignment C: Practical – Separating and identifying amino acids Lesson 2: Unit 2: Assignment C: Practical – Separating and identifying amino acids Lesson 3: Unit 2: Assignment C: Analysis – Separating and identifying amino acids	Lesson 1: Unit 2: Assignment A: Practical	Lesson 1: Unit 2: Assignment A: Practical
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate Chromatography, mobile, stationary, polarity, chlorophyll	Identify, describe, explain, explore, compare, evaluate Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve	Identify, describe, explain, explore, compare, evaluate, reliable, molten, accuracy, calibration Calorimetry
<b>Common Misconceptions</b>	What polarity means	As per misconceptions in titration work, Pupils need to be careful when performing standard solution dilutions; it's quite easy to get confused and end up diluting the wrong thing	Correctly plotting graphs with accuracy and precision

<b>Homework</b>	Write up practical work	C/W research and write up	Graph work
<b>Assessment this half-term</b>	Practical write up: plant pigment TLC Practical write up: plant pigment paper Practical write up: amino acids	U2 LAA: Write up draft due 26 <sup>th</sup> May	Practical write up: Cooling curves
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to separate substances EMPLOYMENT: Chemical engineer, food standards operative	LIFE SKILLS: Understanding how to analytically evaluate and calibrate equipment EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article">https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article</a>	LIFE SKILLS: Understanding how to plot and interpret graphs EMPLOYMENT: Engineer
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Research for practical work and homework activities		
	CLP	DHN	CRE
<b>Week 32 (w/b 15<sup>th</sup> May)</b>	Lesson 1: Unit 2: Assignment C – Set assignment Lesson 2: Unit 2: Assignment C – Student assignment Lesson 3: Unit 2: Assignment C – Student assignment	Lesson 1: Unit 2: Assignment A: Practical	Lesson 1: Unit 2: Assignment A: Practical
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate Chromatography, mobile, stationary, polarity, chlorophyll	Identify, describe, explain, explore, compare, evaluate Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve	Identify, describe, explain, explore, compare, evaluate, reliable, molten, accuracy, calibration Calorimetry
<b>Common Misconceptions</b>	Identified in assignment	As per misconceptions in titration work, Pupils need to be careful when performing standard solution dilutions; it's quite easy to get confused and end up diluting the wrong thing	Correctly plotting graphs with accuracy and precision
<b>Homework</b>	Write up c/w	C/W research and write up	Graph work
<b>Assessment this half-term</b>	Practical write up: plant pigment TLC Practical write up: plant pigment paper Practical write up: amino acids	U2 LAA: Write up draft due 26 <sup>th</sup> May	Practical write up: Cooling curves
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to separate substances EMPLOYMENT: Chemical engineer, food standards operative	LIFE SKILLS: Understanding how to analytically evaluate and calibrate equipment EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article">https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article</a>	LIFE SKILLS: Understanding how to plot and interpret graphs EMPLOYMENT: Engineer
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Research for practical work and homework activities		
	CLP	DHN	CRE
<b>Week 33 (w/b 22<sup>nd</sup> May)</b>	Lesson 1: Unit 2: Assignment C – Student assignment Lesson 2: Unit 2: Assignment C – Student assignment Lesson 3: Unit 2: Assignment C – Student assignment	Lesson 1: Unit 2: Assignment A: Practical	Lesson 1: Unit 2: Assignment A: Practical
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate Chromatography, mobile, stationary, polarity, chlorophyll	Identify, describe, explain, explore, compare, evaluate Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve	Identify, describe, explain, explore, compare, evaluate, reliable, molten, accuracy, calibration Calorimetry
<b>Common Misconceptions</b>	Identified in assignment	As per misconceptions in titration work, Pupils need to be careful when performing standard solution dilutions; it's quite easy to get confused and end up diluting the wrong thing	Correctly plotting graphs with accuracy and precision
<b>Homework</b>	Write up c/w	C/W research and write up	Graph work
<b>Assessment this half-term</b>	Practical write up: plant pigment TLC Practical write up: plant pigment paper Practical write up: amino acids	U2 LAA: Write up draft due 26 <sup>th</sup> May	Practical write up: Cooling curves

<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to separate substances EMPLOYMENT: Chemical engineer, food standards operative	LIFE SKILLS: Understanding how to analytically evaluate and calibrate equipment EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article">https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article</a>	LIFE SKILLS: Understanding how to plot and interpret graphs EMPLOYMENT: Engineer
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Research for practical work and homework activities		
	CLP	DHN	CRE
<b>Week 34 (w/b 5<sup>th</sup> Jun)</b>	Lesson 1: Unit 2: Assignment C – Student assignment Lesson 2: Unit 2: Assignment C – Student assignment Lesson 3: Unit 2: Assignment C – Student assignment	Lesson 1: Unit 2: Assignment A – Set assignment (one does titration, one does colorimetry, as per personal preference)	Lesson 1: Unit 2: Assignment A – Set assignment (one does titration, one does colorimetry, as per personal preference)
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate Chromatography, mobile, stationary, polarity, chlorophyll	Identify, describe, explain, explore, compare, evaluate Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve	Identify, describe, explain, explore, compare, evaluate, reliable, molten, accuracy, calibration Calorimetry
<b>Common Misconceptions</b>	Identified in assignment	As per misconceptions in titration work, Pupils need to be careful when performing standard solution dilutions; it's quite easy to get confused and end up diluting the wrong thing	Identified in assignment
<b>Homework</b>	Write up c/w	C/W research and write up	Write up c/w
<b>Assessment this half-term</b>	U2 LAC: First draft due 16 <sup>th</sup> June U2 LAC: Final deadline 30 <sup>th</sup> June	U2 LAA: Write up draft due 17 <sup>th</sup> July	U2 LAB: Write up draft due 14 <sup>th</sup> July
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to separate substances EMPLOYMENT: Chemical engineer, food standards operative	LIFE SKILLS: Understanding how to analytically evaluate and calibrate equipment EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article">https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article</a>	LIFE SKILLS: Understanding how to plot and interpret graphs EMPLOYMENT: Engineer
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Research for practical work and homework activities		
	CLP	DHN	CRE
<b>Week 35 (w/b 12<sup>th</sup> Jun)</b>	Lesson 1: Unit 2: Assignment C – Student assignment Lesson 2: Unit 2: Assignment C – Student assignment Lesson 3: Unit 2: Assignment C – Student assignment	Lesson 1: Unit 2: Assignment A – Student assignment (Titration/colorimetry)	Lesson 1: Unit 2: Assignment A – Student assignment (Titration/colorimetry)
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate Chromatography, mobile, stationary, polarity, chlorophyll	Identify, describe, explain, explore, compare, evaluate Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve	Identify, describe, explain, explore, compare, evaluate, reliable, molten, accuracy, calibration Calorimetry
<b>Common Misconceptions</b>	Identified in assignment	As per misconceptions in titration work, Pupils need to be careful when performing standard solution dilutions; it's quite easy to get confused and end up diluting the wrong thing	Identified in assignment
<b>Homework</b>	Write up c/w	C/W research and write up	Write up c/w
<b>Assessment this half-term</b>	U2 LAC: First draft due 16 <sup>th</sup> June U2 LAC: Final deadline 30 <sup>th</sup> June	U2 LAA: Write up draft due 17 <sup>th</sup> July	U2 LAB: Write up draft due 14 <sup>th</sup> July
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to separate substances EMPLOYMENT: Chemical engineer, food standards operative	LIFE SKILLS: Understanding how to analytically evaluate and calibrate equipment EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article">https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article</a>	LIFE SKILLS: Understanding how to plot and interpret graphs EMPLOYMENT: Engineer

<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Research for practical work and homework activities					
	CLP	DHN	CRE	SMS		
<b>Week 36 (w/b 19<sup>th</sup> Jun)</b>	Lesson 1: Unit 2: Assignment C – Improvements Lesson 2: Unit 2: Assignment C – Improvements Lesson 3: Unit 2: Assignment C – Improvements	Lesson 1: Unit 2: Assignment A – Student assignment (Titration/colorimetry)	Lesson 1: Unit 2: Assignment B – Student assignment	Lesson 1: Unit 2: Assignment B – Student assignment		
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate Chromatography, mobile, stationary, polarity, chlorophyll	Identify, describe, explain, explore, compare, evaluate Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve		Identify, describe, explain, explore, compare, evaluate, reliable, molten, accuracy, calibration Calorimetry		
<b>Common Misconceptions</b>	Identified in assignment	As per misconceptions in titration work, Pupils need to be careful when performing standard solution dilutions; it's quite easy to get confused and end up diluting the wrong thing		Identified in assignment		
<b>Homework</b>	Write up c/w	C/W research and write up		Write up c/w		
<b>Assessment this half-term</b>	U2 LAC: First draft due 16 <sup>th</sup> June U2 LAC: Final deadline 30 <sup>th</sup> June	U2 LAA: Write up draft due 17 <sup>th</sup> July		U2 LAB: Write up draft due 14 <sup>th</sup> July		
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to separate substances EMPLOYMENT: Chemical engineer, food standards operative	LIFE SKILLS: Understanding how to analytically evaluate and calibrate equipment EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article">https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article</a>		LIFE SKILLS: Understanding how to plot and interpret graphs EMPLOYMENT: Engineer		
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Research for practical work and homework activities					
	CLP	DHN	CRE	SMS		
<b>Week 37 (w/b 26<sup>th</sup> Jun)</b>	Lesson 1: Unit 2: Assignment C – Improvements Lesson 2: Unit 2: Assignment C – Improvements Lesson 3: Unit 2: Assignment C – Improvements	Lesson 1: Unit 2: Assignment A – Student assignment (Titration/colorimetry)	Lesson 1: Unit 2: Assignment A – Student assignment (Titration/colorimetry)	Lesson 1: Unit 2: Assignment B – Student assignment		
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate Chromatography, mobile, stationary, polarity, chlorophyll	Identify, describe, explain, explore, compare, evaluate Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve		Identify, describe, explain, explore, compare, evaluate, reliable, molten, accuracy, calibration Calorimetry		
<b>Common Misconceptions</b>	Identified in assignment	As per misconceptions in titration work, Pupils need to be careful when performing standard solution dilutions; it's quite easy to get confused and end up diluting the wrong thing		Identified in assignment		
<b>Homework</b>	Write up c/w	C/W research and write up		Write up c/w		
<b>Assessment this half-term</b>	U2 LAC: First draft due 16 <sup>th</sup> June U2 LAC: Final deadline 30 <sup>th</sup> June	U2 LAA: Write up draft due 17 <sup>th</sup> July		U2 LAB: Write up draft due 14 <sup>th</sup> July		
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to separate substances EMPLOYMENT: Chemical engineer, food standards operative	LIFE SKILLS: Understanding how to analytically evaluate and calibrate equipment EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article">https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article</a>		LIFE SKILLS: Understanding how to plot and interpret graphs EMPLOYMENT: Engineer		
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Research for practical work and homework activities					



	CLP	DHN	CRE	SMS
<b>Week 38</b> (w/b 3 <sup>rd</sup> July)	Lesson 1: Unit 2: Assignment D – Go through outline of assignment Lesson 2: Unit 2: Assignment D – Set assignment Lesson 3: Unit 2: Assignment D – Student assignment	Lesson 1: Unit 2: Assignment A – Student assignment (Titration/colorimetry)	Lesson 1: Unit 2: Assignment A – Student assignment (Titration/colorimetry)	Lesson 1: Unit 2: Assignment B – Student assignment
<b>Key Words</b> <b>Level 2</b> <b>Level 3</b>	Identify, describe, explain, explore, compare, evaluate Titration, colorimetry, calorimetry, chromatography	Identify, describe, explain, explore, compare, evaluate Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve		Identify, describe, explain, explore, compare, evaluate, reliable, molten, accuracy, calibration Calorimetry
<b>Common Misconceptions</b>	Identified from interpretation of practical work	As per misconceptions in titration work, Pupils need to be careful when performing standard solution dilutions; it's quite easy to get confused and end up diluting the wrong thing		Identified in assignment
<b>Homework</b>	C/W write up	C/W research and write up		Write up c/w
<b>Assessment this half-term</b>	U2 LAC: First draft due 16 <sup>th</sup> June U2 LAC: Final deadline 30 <sup>th</sup> June	U2 LAA: Write up draft due 17 <sup>th</sup> July		U2 LAB: Write up draft due 14 <sup>th</sup> July
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how to evaluate practical work EMPLOYMENT: Analytical scientist	LIFE SKILLS: Understanding how to analytically evaluate and calibrate equipment EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article">https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article</a>		LIFE SKILLS: Understanding how to plot and interpret graphs EMPLOYMENT: Engineer
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive		Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Research for practical work and homework activities			
	CLP	DHN	CRE	SMS
<b>Week 39</b> (w/b 10 <sup>th</sup> July)	Lesson 1: Unit 2: Assignment D – Student assignment Lesson 2: Unit 2: Assignment D – Student assignment Lesson 3: Unit 2: Assignment D – Student assignment	Lesson 1: Unit 2: Assignment A – Student assignment (Titration/colorimetry)	Lesson 1: Unit 2: Assignment A – Student assignment (Titration/colorimetry)	Lesson 1: Unit 2: Assignment B – Student assignment
<b>Key Words</b> <b>Level 2</b> <b>Level 3</b>	Identify, describe, explain, explore, compare, evaluate Titration, colorimetry, calorimetry, chromatography	Identify, describe, explain, explore, compare, evaluate Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve		Identify, describe, explain, explore, compare, evaluate, reliable, molten, accuracy, calibration Calorimetry
<b>Common Misconceptions</b>	Identified from interpretation of practical work	As per misconceptions in titration work, Pupils need to be careful when performing standard solution dilutions; it's quite easy to get confused and end up diluting the wrong thing		Identified in assignment
<b>Homework</b>	C/W write up	C/W research and write up		Write up c/w
<b>Assessment this half-term</b>	U2 LAC: First draft due 16 <sup>th</sup> June U2 LAC: Final deadline 30 <sup>th</sup> June	U2 LAA: Write up draft due 17 <sup>th</sup> July		U2 LAB: Write up draft due 14 <sup>th</sup> July
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how to evaluate practical work EMPLOYMENT: Analytical scientist	LIFE SKILLS: Understanding how to analytically evaluate and calibrate equipment EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article">https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article</a>		LIFE SKILLS: Understanding how to plot and interpret graphs EMPLOYMENT: Engineer
<b>Employability Skills</b>	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive		Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Research for practical work and homework activities			
	CLP	DHN	CRE	SMS
<b>Week 40</b> (w/b 17 <sup>th</sup> July)	Lesson 1: Unit 2: Assignment D – Student assignment Lesson 2: X Lesson 3: X	Lesson 1: Unit 2: Assignment A – Student assignment (Titration/colorimetry)	Lesson 1: X	Lesson 1: X
<b>Key Words</b> <b>Level 2</b>	Identify, describe, explain, explore, compare, evaluate Titration, colorimetry, calorimetry, chromatography	Identify, describe, explain, explore, compare, evaluate		

<b>Level 3</b>		Titration, Burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve
<b>Common Misconceptions</b>	Identified from interpretation of practical work	As per misconceptions in titration work, Pupils need to be careful when performing standard solution dilutions; it's quite easy to get confused and end up diluting the wrong thing
<b>Homework</b>	C/W write up	C/W research and write up
<b>Assessment this half-term</b>	U2 LAC: First draft due 16 <sup>th</sup> June U2 LAC: Final deadline 30 <sup>th</sup> June	U2 LAA: Write up draft due 17 <sup>th</sup> July
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to evaluate practical work EMPLOYMENT: Analytical scientist	LIFE SKILLS: EMPLOYMENT:
<b>Employability Skills</b>	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive	Aiming high Creativity Leadership Communication Presenting Problem solving Literacy Numeracy Independence Listening Teamwork Staying positive
<b>IT Skills</b>	IT1 & IT2: Research for practical work and homework activities	

<b>YEAR 13</b>			
	CLP	DHN	CRE
<b>Week 1 (w/b Wed 7<sup>th</sup> Sep)</b>	Lesson 1: X Lesson 2: Unit 2: Chromatography coursework	Lesson 1: X Lesson 2: X Lesson 3: Unit 2: Titration and colorimetry coursework Lesson 4: Unit 2: Titration and colorimetry coursework	Lesson 1: ICT session for coursework writeup from CLP/DHN sections
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain Solvent, solute, solution, retention factor, polar molecule, TLC, photosynthetic, amino acid	Identify, describe, explain Titration, burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve	Linked directly to practical work from CLP/DHN
<b>Common Misconceptions</b>	Confusing the Rf calculation	Difference between accuracy and precision	Identified from the practical work
<b>Homework</b>			
<b>Assessment this half-term</b>	Unit 2 final write up		
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to evaluate practical work and make improvements EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding how to evaluate practical work and make improvements EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article">https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article</a>	LIFE SKILLS: Understanding how to write reports EMPLOYMENT: Project manager, research scientist
<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Communication
<b>IT Skills</b>	IT1 & IT2: Appropriate websites and research for coursework write up		
	CLP	DHN	CRE
<b>Week 2 (w/b 12<sup>th</sup> Sep)</b>	Lesson 1: Unit 2: Chromatography coursework Lesson 2: Unit 2: Chromatography coursework	Lesson 1: Unit 2: Titration and colorimetry coursework Lesson 2: Unit 2: Titration and colorimetry coursework Lesson 3: Unit 2: Titration and colorimetry coursework Lesson 4: Unit 2: Titration and colorimetry coursework	Lesson 1: ICT session for coursework writeup from CLP/DHN sections
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain Solvent, solute, solution, retention factor, polar molecule, TLC, photosynthetic, amino acid	Identify, describe, explain Titration, burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve	Linked directly to practical work from CLP/DHN
<b>Common Misconceptions</b>	Confusing the Rf calculation	Difference between accuracy and precision	Identified from the practical work

Homework	Practical research and write up											
Assessment this half-term	Unit 2 final write up											
Career opportunities Employment Links	LIFE SKILLS: Understanding how to evaluate practical work and make improvements EMPLOYMENT: Research scientist				LIFE SKILLS: Understanding how to evaluate practical work and make improvements EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article">https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article</a>				LIFE SKILLS: Understanding how to write reports EMPLOYMENT: Project manager, research scientist			
Employability Skills	Aiming high	Literacy	Creativity	Numeracy	Aiming high	Literacy	Creativity	Numeracy	Aiming high	Literacy	Creativity	Numeracy
	Leadership	Independence	Listening	Communication	Leadership	Independence	Listening	Communication	Leadership	Independence	Listening	Communication
	Presenting	Teamwork			Presenting	Teamwork			Presenting	Teamwork		
	Problem solving	Staying positive			Problem solving	Staying positive			Problem solving	Staying positive		
IT Skills	IT1 & IT2: Appropriate websites and research for coursework write up											
	CLP				DHN				CRE			
Week 3 (w/b 19 <sup>th</sup> Sep)	Lesson 1: Unit 2: Chromatography coursework Lesson 2: Unit 2: Chromatography coursework				Lesson 1: Unit 2: Titration and colorimetry coursework Lesson 2: Unit 2: Titration and colorimetry coursework Lesson 3: Unit 2: Titration and colorimetry coursework Lesson 4: Unit 2: Titration and colorimetry coursework				Lesson 1: ICT session for coursework writeup from CLP/DHN sections			
Key Words Level 2 Level 3	Identify, describe, explain Solvent, solute, solution, retention factor, polar molecule, TLC, photosynthetic, amino acid				Identify, describe, explain Titration, burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve				Linked directly to practical work from CLP/DHN			
Common Misconceptions	Confusing the Rf calculation				Difference between accuracy and precision				Identified from the practical work			
Homework	Practical research and write up											
Assessment this half-term	Unit 2 final write up											
Career opportunities Employment Links	LIFE SKILLS: Understanding how to evaluate practical work and make improvements EMPLOYMENT: Research scientist				LIFE SKILLS: Understanding how to evaluate practical work and make improvements EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article">https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article</a>				LIFE SKILLS: Understanding how to write reports EMPLOYMENT: Project manager, research scientist			
Employability Skills	Aiming high	Literacy	Creativity	Numeracy	Aiming high	Literacy	Creativity	Numeracy	Aiming high	Literacy	Creativity	Numeracy
	Leadership	Independence	Listening	Communication	Leadership	Independence	Listening	Communication	Leadership	Independence	Listening	Communication
	Presenting	Teamwork			Presenting	Teamwork			Presenting	Teamwork		
	Problem solving	Staying positive			Problem solving	Staying positive			Problem solving	Staying positive		
IT Skills	IT1 & IT2: Appropriate websites and research for coursework write up											
	CLP				DHN				CRE			
Week 4 (w/b 26 <sup>th</sup> Sep)	Lesson 1: Unit 2: Chromatography coursework Lesson 2: Unit 2: Chromatography coursework				Lesson 1: Unit 2: Titration and colorimetry coursework Lesson 2: Unit 2: Titration and colorimetry coursework Lesson 3: Unit 2: Titration and colorimetry coursework Lesson 4: Unit 2: Titration and colorimetry coursework				Lesson 1: ICT session for coursework writeup from CLP/DHN sections			
Key Words Level 2 Level 3	Identify, describe, explain Solvent, solute, solution, retention factor, polar molecule, TLC, photosynthetic, amino acid				Identify, describe, explain Titration, burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve				Linked directly to practical work from CLP/DHN			
Common Misconceptions	Confusing the Rf calculation				Difference between accuracy and precision				Identified from the practical work			
Homework	Practical research and write up											
Assessment this half-term	Unit 2 final write up											
Career opportunities Employment Links	LIFE SKILLS: Understanding how to evaluate practical work and make improvements EMPLOYMENT: Research scientist				LIFE SKILLS: Understanding how to evaluate practical work and make improvements EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article">https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article</a>				LIFE SKILLS: Understanding how to write reports EMPLOYMENT: Project manager, research scientist			
Employability Skills	Aiming high	Literacy	Creativity	Numeracy	Aiming high	Literacy	Creativity	Numeracy	Aiming high	Literacy	Creativity	Numeracy
	Leadership	Independence	Listening	Communication	Leadership	Independence	Listening	Communication	Leadership	Independence	Listening	Communication
	Presenting	Teamwork			Presenting	Teamwork			Presenting	Teamwork		
	Problem solving	Staying positive			Problem solving	Staying positive			Problem solving	Staying positive		
IT Skills	IT1 & IT2: Appropriate websites and research for coursework write up											

	CLP	DHN	CRE
<b>Week 5</b> (w/b 3 <sup>rd</sup> Oct)	Lesson 1: Unit 2: Section D Lesson 2: Unit 2: Section D	Lesson 1: Unit 2: Section D Lesson 2: Unit 2: Section D Lesson 3: Unit 2: Section D Lesson 4: Unit 2: Section D	Lesson 1: ICT session for coursework writeup from CLP/DHN sections
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain, evaluate, risk assessment	Identify, describe, explain, evaluate, risk assessment	Linked directly to practical work from CLP/DHN
<b>Common Misconceptions</b>	Identified from the practical work	Identified from the practical work	Identified from the practical work
<b>Homework</b>	Practical research and write up		
<b>Assessment this half-term</b>	Unit 2 final write up: First deadline 7 <sup>th</sup> October		
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how to evaluate practical work and make improvements EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding how to evaluate practical work and make improvements EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article">https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article</a>	LIFE SKILLS: Understanding how to write reports EMPLOYMENT: Project manager, research scientist
<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication
<b>IT Skills</b>	IT1 & IT2: Appropriate websites and research for coursework write up		
	CLP	DHN	CRE
<b>Week 6</b> (w/b 10 <sup>th</sup> Oct)	Lesson 1: Improvements to section C Lesson 2: Improvements to section C	Lesson 1: Improvements to section A Lesson 2: Improvements to section A Lesson 3: Improvements to section A Lesson 4: Improvements to section A	Lesson 1: ICT session for coursework writeup from CLP/DHN sections
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain Solvent, solute, solution, retention factor, polar molecule, TLC, photosynthetic, amino acid	Identify, describe, explain Titration, burette, pipette, concentration, moles per dm <sup>3</sup> , accuracy, precision, concordant, absorbance, transmission, calibration curve	Linked directly to practical work from CLP/DHN
<b>Common Misconceptions</b>	Identified from first submission	Identified from first submission	Identified from the practical work
<b>Homework</b>	Practical research and write up		
<b>Assessment this half-term</b>	Unit 2 final write up		
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how to evaluate practical work and make improvements EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding how to evaluate practical work and make improvements EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article">https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article</a>	LIFE SKILLS: Understanding how to write reports EMPLOYMENT: Project manager, research scientist
<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication
<b>IT Skills</b>	IT1 & IT2: Appropriate websites and research for coursework write up		
	CLP	DHN	CRE
<b>Week 7</b> (w/b 17 <sup>th</sup> Oct)	Lesson 1: Improvements to section C Lesson 2: Improvements to section C	Lesson 1: Improvements to section D Lesson 2: Improvements to section D Lesson 3: Improvements to section D Lesson 4: Improvements to section D	Lesson 1: ICT session for coursework writeup from CLP/DHN sections
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain Solvent, solute, solution, retention factor, polar molecule, TLC, photosynthetic, amino acid	Identify, describe, explain, evaluate, risk assessment	Linked directly to practical work from CLP/DHN
<b>Common Misconceptions</b>	Identified from first submission	Identified from first submission	Identified from the practical work
<b>Homework</b>	Practical research and write up		

<b>Assessment this half-term</b>	Unit 2 final write up: Final resubmission deadline 21 <sup>st</sup> October											
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to evaluate practical work and make improvements EMPLOYMENT: Research scientist				LIFE SKILLS: Understanding how to evaluate practical work and make improvements EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article">https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article</a>				LIFE SKILLS: Understanding how to write reports EMPLOYMENT: Project manager, research scientist			
<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication
<b>IT Skills</b>	IT1 & IT2: Appropriate websites and research for coursework write up											
	CLP				DHN				CRE			
<b>Week 8 (w/b Mon 31<sup>st</sup> Oct)</b>	Lesson 1: Unit 3: D1 Protein structure #1 – forming polypeptides from amino acids Lesson 2: Unit 3: D1 Protein structure #2 – Levels of structure				Lesson 1: Unit 12 Learning aim A: Infectious and non- infectious disease causes and types Lesson 2: Unit 12 Learning aim A: Infectious and non- infectious disease characteristics Lesson 3: Unit 12 Learning aim A: Types of pathogen Lesson 4: Unit 12 Learning aim A: Types of pathogen				Lesson 1: Unit 3: G1 Fuels – demonstration of properties			
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, primary, secondary, tertiary, quaternary, collision Peptide bond, condensation reaction, hydrolysis, amino acid, polypeptide, active site, denature				Identify, describe, explain, dietary, inheritance, deficiency Bacteria, virus, fungi, parasitic organism, protozoa, genetic, hereditary, degenerative, allergen, Alzheimers, ALS, pathogenic, pathogenesis, genotype				Identify, describe, explain, burning, oxygen Combustion, incomplete, complete, carbon monoxide/dioxide, viscosity, flammability, particulates/soot			
<b>Common Misconceptions</b>	The bonding present in each structure				All diseases can be transmitted in the same ways				Viscosity meaning			
<b>Homework</b>	Protein structure sheet				Transmissions summary							
<b>Assessment this half-term</b>	D1 practical write up 6 mark in class questions				First draft of U12 LA:A due 25 <sup>th</sup> Nov U12 LA A: Final version due 9 <sup>th</sup> Dec				G1 practical write up 6 mark in class questions			
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how proteins are made and broken down EMPLOYMENT: Food developer, nutritionist				LIFE SKILLS: Understanding how diseases can spread EMPLOYMENT: Virologist, phlebotomist, nurse				LIFE SKILLS: Choosing appropriate fuels for a purpose EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article">https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article</a>			
<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication
<b>IT Skills</b>	IT1 & IT2: Use of website for research and writing up practical assessments as well as research and write up for c/w unit											
	CLP				DHN				CRE			
<b>Week 9 (w/b 7<sup>th</sup> Nov)</b>	Lesson 1: Unit 3: D1 Factors affecting active sites and denaturation #1 – Lock and key hypothesis Lesson 2: Unit 3: D1 Factors affecting active sites and denaturation #2 – practical discussion				Lesson 1: Unit 12 Learning aim A: Genetic diseases Lesson 2: Unit 12 Learning aim A: Dietary diseases Lesson 3: Unit 12 Learning aim A: Degenerative diseases (including punnet squares) Lesson 4: Unit 12 Learning aim A: Environmental diseases				Lesson 1: Unit 3: G1 Fuels – trends in properties based on previous lessons demonstrations			
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, primary, secondary, tertiary, quaternary, collision, hypothesis, evaluation, conclusion Peptide bond, condensation reaction, hydrolysis, amino acid, polypeptide, active site, denature, substrate, independent variable, dependent variable, control variable				Identify, describe, explain, dietary, inheritance, deficiency Bacteria, virus, fungi, parasitic organism, protozoa, genetic, hereditary, degenerative, allergen, Alzheimers, ALS, pathogenic, pathogenesis, genotype				Identify, describe, explain, burning, oxygen Combustion, incomplete, complete, carbon monoxide/dioxide, viscosity, flammability, particulates/soot			
<b>Common Misconceptions</b>	Enzymes 'die'				All diseases can be transmitted in the same ways							
<b>Homework</b>	Practical plan				Types of diseases summary							
<b>Assessment this half-term</b>	D1 practical write up 6 mark in class questions				First draft of U12 LA:A due 25 <sup>th</sup> Nov U12 LA A: Final version due 9 <sup>th</sup> Dec				G1 practical write up 6 mark in class questions			
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to plan investigations EMPLOYMENT: Research scientist				LIFE SKILLS: Understanding how diseases can spread EMPLOYMENT: Virologist, phlebotomist, nurse				LIFE SKILLS: Understanding different fuels EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article">https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article</a>			
<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication

IT Skills	IT1 & IT2: Use of website for research and writing up practical assessments as well as research and write up for c/w unit		
	CLP	DHN	CRE
<b>Week 10 (w/b 14<sup>th</sup> Nov)</b>	Lesson 1: Unit 3: D1 Factors affecting active sites and denaturation – Practical activity – full write up – hypothesis, risk assessment and method Lesson 2: Unit 3: D1 Factors affecting active sites and denaturation – Practical activity – full write up – gathering results	Lesson 1: Unit 12 Learning aim A: Set task Lesson 2: Unit 12 Learning aim A: Student task Lesson 3: Unit 12 Learning aim A: Student task Lesson 4: Unit 12 Learning aim A: Student task	Lesson 1: Unit 3: G1 Fuels – pupils research different fuels
<b>Key Words</b> <b>Level 2</b> <b>Level 3</b>	Identify, describe, explain, primary, secondary, tertiary, quaternary, collision, hypothesis, evaluation, conclusion Peptide bond, condensation reaction, hydrolysis, amino acid, polypeptide, active site, denature, substrate, independent variable, dependent variable, control variable	Identify, describe, explain, dietary, inheritance, deficiency Bacteria, virus, fungi, parasitic organism, protozoa, genetic, hereditary, degenerative, allergen, Alzheimers, ALS, pathogenic, pathogenesis, genotype	Identify, describe, explain, burning, oxygen, hypothesis, evaluation, conclusion Combustion, incomplete, complete, carbon monoxide/dioxide, viscosity, flammability, particulates/soot, independent variable, dependent variable, control variable
<b>Common Misconceptions</b>	Enzymes 'die'	Identified in write up	
<b>Homework</b>		C/W write up	Complete fuels research
<b>Assessment this half-term</b>	D1 practical write up 6 mark in class questions	First draft of U12 LA:A due 25 <sup>th</sup> Nov U12 LA A: Final version due 9 <sup>th</sup> Dec	G1 practical write up 6 mark in class questions
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how to evaluate and make conclusions from investigations and data EMPLOYMENT: Project manager, research scientist	LIFE SKILLS: Understanding how diseases can spread EMPLOYMENT: Virologist, phlebotomist, nurse	LIFE SKILLS: Understanding different fuels EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article">https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article</a>
<b>Employability Skills</b>	<b>Aiming high</b> Literacy Leadership Presenting Problem solving Staying positive Independence <b>Teamwork</b> Creativity <b>Listening</b> Numeracy <b>Communication</b>	<b>Aiming high</b> Literacy Leadership Presenting <b>Problem solving</b> Creativity Listening Staying positive Numeracy <b>Communication</b>	<b>Aiming high</b> Literacy Leadership Presenting Problem solving Staying positive Creativity Listening Numeracy <b>Communication</b>
IT Skills	IT1 & IT2: Use of website for research and writing up practical assessments as well as research and write up for c/w unit		
	CLP	DHN	CRE
<b>Week 11 (w/b 21<sup>st</sup> Nov)</b>	Lesson 1: Unit 3: D1 Factors affecting active sites and denaturation – Practical activity – full write up – gathering results and initial analysis Lesson 2: Unit 3: D1 Factors affecting active sites and denaturation – Practical activity – full write up – graphs and conclusion	Lesson 1: Unit 12 Learning aim A: Student task Lesson 2: Unit 12 Learning aim A: Student task Lesson 3: Unit 12 Learning aim A: Student task Lesson 4: Unit 12 Learning aim A: Student task	Lesson 1: Unit 3: G1 Fuels – pupils research different fuels discuss advantages and disadvantages of different fuels/write up their research
<b>Key Words</b> <b>Level 2</b> <b>Level 3</b>	Identify, describe, explain, primary, secondary, tertiary, quaternary, collision, hypothesis, evaluation, conclusion Peptide bond, condensation reaction, hydrolysis, amino acid, polypeptide, active site, denature, substrate, independent variable, dependent variable, control variable	Identify, describe, explain, dietary, inheritance, deficiency Bacteria, virus, fungi, parasitic organism, protozoa, genetic, hereditary, degenerative, allergen, Alzheimers, ALS, pathogenic, pathogenesis, genotype	Identify, describe, explain, burning, oxygen, hypothesis, evaluation, conclusion Combustion, incomplete, complete, carbon monoxide/dioxide, viscosity, flammability, particulates/soot, independent variable, dependent variable, control variable
<b>Common Misconceptions</b>	Enzymes 'die'	Identified in write up	
<b>Homework</b>	Complete practical write up	C/W write up	
<b>Assessment this half-term</b>	D1 practical write up 6 mark in class questions	First draft of U12 LA:A due 25 <sup>th</sup> Nov U12 LA A: Final version due 9 <sup>th</sup> Dec	G1 practical write up 6 mark in class questions
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how to evaluate and make conclusions from investigations and data EMPLOYMENT: Project manager, research scientist	LIFE SKILLS: Understanding how diseases can spread EMPLOYMENT: Virologist, phlebotomist, nurse	LIFE SKILLS: Understanding how to evaluate and make conclusions from investigations and data EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article">https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article</a>
<b>Employability Skills</b>	<b>Aiming high</b> Literacy Leadership Presenting Problem solving Staying positive Independence <b>Teamwork</b> Creativity <b>Listening</b> Numeracy <b>Communication</b>	<b>Aiming high</b> Literacy Leadership Presenting <b>Problem solving</b> Creativity Listening Staying positive Numeracy <b>Communication</b>	<b>Aiming high</b> Literacy Leadership Presenting Problem solving Staying positive Creativity Listening Numeracy <b>Communication</b>
IT Skills	IT1 & IT2: Use of website for research and writing up practical assessments as well as research and write up for c/w unit		
	CLP	DHN	CRE
<b>Week 12 (w/b 28<sup>th</sup> Nov)</b>	Lesson 1: Unit 3: D2 Enzymes as biological catalysts in chemical reactions #1 – Collision theory Lesson 2: Unit 3: D2 Enzymes as biological catalysts in chemical reactions #2 – Energy profiles	Lesson 1: Unit 12 Learning aim A: improvements Lesson 2: Unit 12 Learning aim A: improvements Lesson 3: Unit 12 Learning aim A: improvements Lesson 4: Unit 12 Learning aim A: improvements	Lesson 1: Unit 3: G1 Fuels – pupils research different fuels discuss advantages and disadvantages of different fuels/write up their research
<b>Key Words</b> <b>Level 2</b> <b>Level 3</b>	Identify, describe, explain, primary, secondary, tertiary, quaternary, collision Peptide bond, condensation reaction, hydrolysis, amino acid, polypeptide, active site, denature, substrate, endothermic, exothermic	Identify, describe, explain, dietary, inheritance, deficiency Bacteria, virus, fungi, parasitic organism, protozoa, genetic, hereditary, degenerative, allergen, Alzheimers, ALS, pathogenic, pathogenesis, genotype	Identify, describe, explain, burning, oxygen, hypothesis, evaluation, conclusion Combustion, incomplete, complete, carbon monoxide/dioxide, viscosity, flammability, particulates/soot, independent variable, dependent variable, control variable

<b>Common Misconceptions</b>	Students forget to link rates of reaction to enzyme action	Identified in write up	
<b>Homework</b>	Energy profiles homework	Improvements to c/w	
<b>Assessment this half-term</b>	D1 practical write up 6 mark in class questions	U12 LA A: Final version due 9 <sup>th</sup> Dec	G1 practical write up 6 mark in class questions
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding why reactions are hot or cold EMPLOYMENT: Baby food manufacturer	LIFE SKILLS: Understanding how diseases can spread EMPLOYMENT: Virologist, phlebotomist, nurse	LIFE SKILLS: Understanding how to evaluate and make conclusions from investigations and data EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article">https://edu.rsc.org/job-profiles/teaching-technical-specialist/4014559.article</a>
<b>Employability Skills</b>	<b>Aiming high</b> Literacy Leadership Presenting Problem solving Staying positive Independence <b>Teamwork</b> Creativity <b>Listening</b> Numeracy <b>Communication</b>	<b>Aiming high</b> Literacy Leadership Presenting <b>Problem solving</b> Creativity Listening Staying positive <b>Numeracy</b> <b>Communication</b>	<b>Aiming high</b> Literacy Leadership Presenting Problem solving Staying positive Independence Listening Teamwork <b>Staying positive</b> Creativity Communication Numeracy
<b>IT Skills</b>	IT1 & IT2: Use of website for research and writing up practical assessments as well as research and write up for c/w unit		
	CLP	DHN	CRE
<b>Week 13 (w/b 5<sup>th</sup> Dec)</b>	Lesson 1: Unit 3: D2 Enzymes as biological catalysts in chemical reactions – practical activity Lesson 2: Unit 3: D2 Enzymes as biological catalysts in chemical reactions – practical activity	Lesson 1: Unit 12 Learning aim A: improvements Lesson 2: Unit 12 Learning aim A: improvements Lesson 3: Unit 12 Learning aim A: improvements Lesson 4: Unit 12 Learning aim A: improvements	Lesson 1: Unit 3: G1 Fuels – define units of energy, re-introduce SHC
<b>Key Words</b> <b>Level 2</b> <b>Level 3</b>	Identify, describe, explain, primary, secondary, tertiary, quaternary, collision, hypothesis, evaluation, conclusion Peptide bond, condensation reaction, hydrolysis, amino acid, polypeptide, active site, denature, catalyst, substrate, independent variable, dependent variable, control variable	Identify, describe, explain, dietary, inheritance, deficiency Bacteria, virus, fungi, parasitic organism, protozoa, genetic, hereditary, degenerative, allergen, Alzheimers, ALS, pathogenic, pathogenesis, genotype	Identify, describe, explain Joule, kilojoule, specific heat capacity
<b>Common Misconceptions</b>	Students forget to link rates of reaction to enzyme action	Identified in write up	
<b>Homework</b>		Improvements to c/w	Practice calculations for SHC
<b>Assessment this half-term</b>	D1 practical write up 6 mark in class questions	U12 LA A: Final version due 9 <sup>th</sup> Dec	G1 practical write up 6 mark in class questions
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to evaluate and make conclusions from investigations and data EMPLOYMENT: Project manager, research scientist	LIFE SKILLS: Understanding how diseases can spread EMPLOYMENT: Virologist, phlebotomist, nurse	LIFE SKILLS: Mathematical calculations and rearranging formulae EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article">https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article</a>
<b>Employability Skills</b>	<b>Aiming high</b> Literacy Leadership Presenting Problem solving Staying positive Independence <b>Teamwork</b> Creativity <b>Listening</b> Numeracy <b>Communication</b>	<b>Aiming high</b> Literacy Leadership Presenting <b>Problem solving</b> Creativity Listening Staying positive <b>Numeracy</b> <b>Communication</b>	<b>Aiming high</b> Literacy Leadership Presenting Problem solving Staying positive Independence Listening Teamwork <b>Staying positive</b> Creativity Communication Numeracy
<b>IT Skills</b>	IT1 & IT2: Use of website for research and writing up practical assessments as well as research and write up for c/w unit		
	CLP	DHN	CRE
<b>Week 14 (w/b 12<sup>th</sup> Dec)</b>	Lesson 1: Unit 3: D3 Factors that can affect enzyme activity #1 – overview of factors Lesson 2: Unit 3: D3 Factors that can affect enzyme activity – practical planning: hypothesis and methods	Lesson 1: Unit 12 Learning aim B: How to control the spread of infection Lesson 2: Unit 12 Learning aim B: Vaccination Lesson 3: Unit 12 Learning aim B: Transmission through direct contact Lesson 4: Unit 12 Learning aim B: Transmission through indirect contact	Lesson 1: Unit 3: G1 Fuels – practice SHC capacity calculations
<b>Key Words</b> <b>Level 2</b> <b>Level 3</b>	Identify, describe, explain, primary, secondary, tertiary, quaternary, collision, hypothesis, evaluation, conclusion Peptide bond, condensation reaction, hydrolysis, amino acid, polypeptide, active site, denature, catalyst, substrate, independent variable, dependent variable, control variable	Identify, describe, explain, deficiency, transmission, effectiveness Vaccination, pathogen, lymphocyte, phagocyte, prescription, infectious disease, causative organism	Identify, describe, explain Joule, kilojoule, specific heat capacity
<b>Common Misconceptions</b>	Students forget to link rates of reaction to enzyme action	Vaccinations are quick to develop	
<b>Homework</b>	Practical write up	Charities research	
<b>Assessment this half-term</b>	D1 practical write up 6 mark in class questions		G1 practical write up 6 mark in class questions
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to evaluate and make conclusions from investigations and data EMPLOYMENT: Project manager, research scientist	LIFE SKILLS: Understanding how diseases can spread EMPLOYMENT: Virologist, phlebotomist, nurse	LIFE SKILLS: Mathematical calculations and rearranging formulae EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article">https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article</a>

<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication
<b>IT Skills</b>	IT1 & IT2: Use of website for research and writing up practical assessments as well as research and write up for c/w unit											
	CLP				DHN				CRE			
<b>Week 15 (w/b 19<sup>th</sup> Dec) End of term Wednesday 20<sup>th</sup> December</b>	Lesson 1: Unit 3: D3 Factors that can affect enzyme activity – practical planning: risk assessments Lesson 2: X				Lesson 1: Unit 12 Learning aim B: The work of different organisations Lesson 2: Unit 12 Learning aim B: Types of infectious diseases that charities work with Lesson 3: X Lesson 4: X				Lesson 1: X			
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, primary, secondary, tertiary, quaternary, collision, hypothesis, evaluation, conclusion Peptide bond, condensation reaction, hydrolysis, amino acid, polypeptide, active site, denature, catalyst, substrate, independent variable, dependent variable, control variable				Identify, describe, explain, deficiency, transmission, effectiveness Vaccination, pathogen, lymphocyte, phagocyte, prescription, infectious disease, causative organism							
<b>Common Misconceptions</b>	Students forget to link rates of reaction to enzyme action				Organisations only work with 3 <sup>rd</sup> world countries							
<b>Homework</b>	Practical write up				Research infectious diseases							
<b>Assessment this half-term</b>	D1 practical write up 6 mark in class questions											
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to evaluate and make conclusions from investigations and data EMPLOYMENT: Project manager, research scientist				LIFE SKILLS: Understanding how diseases can spread EMPLOYMENT: Virologist, phlebotomist, nurse							
<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication
<b>IT Skills</b>	IT1 & IT2: Use of website for research and writing up practical assessments as well as research and write up for c/w unit											

	CLP				DHN				CRE			
<b>Week 16 (w/b Wed 4<sup>th</sup> Jan)</b>	Lesson 1: Unit 3: D3 Factors that can affect enzyme activity – practical planning: results Lesson 2: Unit 3: D3 Factors that can affect enzyme activity – practical planning: results				Lesson 1: X Lesson 2: Unit 12 Learning aim B: Set task Lesson 3: Unit 12 Learning aim B: Student task Lesson 4: Unit 12 Learning aim B: Student task				Lesson 1: Unit 3: G3 Fuels – recap planning experiments; variables, risks and hazards, method, measurements they will make			
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, primary, secondary, tertiary, quaternary, collision, hypothesis, evaluation, conclusion Peptide bond, condensation reaction, hydrolysis, amino acid, polypeptide, active site, denature, catalyst, substrate, independent variable, dependent variable, control variable				Identify, describe, explain, deficiency, transmission, effectiveness Vaccination, pathogen, lymphocyte, phagocyte, prescription, infectious disease, causative organism				Identify, describe, explain, explore, compare, evaluate Independent variable, dependent variable, control variable, thermal energy, calorific content			
<b>Common Misconceptions</b>	Students forget to link rates of reaction to enzyme action				Identified in write up				Students forget about surface area or mass being a control			
<b>Homework</b>	Practical write up				C/W write up							
<b>Assessment this half-term</b>	D3 practical write up E2 practical write up 6 mark in class questions				First draft of U12 LA:B due 13 <sup>TH</sup> Jan U12 LA B: Final version due 27 <sup>th</sup> Jan				G3 practical write up 6 mark in class questions			
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to evaluate and make conclusions from investigations and data EMPLOYMENT: Project manager, research scientist				LIFE SKILLS: Understanding how different drugs work EMPLOYMENT: Virologist, phlebotomist, research scientist, doctor, nurse				LIFE SKILLS: Understanding how to plan investigations EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article">https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article</a>			
<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication
<b>IT Skills</b>	IT1 & IT2: Use of website for research and writing up practical assessments as well as research and write up for c/w unit											



	CLP	DHN	CRE
<b>Week 17 (w/b 9<sup>th</sup> Jan)</b>	Lesson 1: Unit 3: D3 Factors that can affect enzyme activity – practical planning: analysis and graphs Lesson 2: Unit 3: D3 Factors that can affect enzyme activity – practical planning: conclusions and evaluations	Lesson 1: Unit 12 Learning aim B: Student task Lesson 2: Unit 12 Learning aim B: Student task Lesson 3: Unit 12 Learning aim B: Student task Lesson 4: Unit 12 Learning aim B: Student task	Lesson 1: Unit 3: G3 Fuels – Demo and practical planning
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, primary, secondary, tertiary, quaternary, collision, hypothesis, evaluation, conclusion Peptide bond, condensation reaction, hydrolysis, amino acid, polypeptide, active site, denature, catalyst, substrate, independent variable, dependent variable, control variable	Identify, describe, explain, deficiency, transmission, effectiveness Vaccination, pathogen, lymphocyte, phagocyte, prescription, infectious disease, causative organism	Identify, describe, explain, explore, compare, evaluate Independent variable, dependent variable, control variable, thermal energy, calorific content
<b>Common Misconceptions</b>	Students forget to link rates of reaction to enzyme action	Identified in write up	Students forget about surface area or mass being a control
<b>Homework</b>	Practical write up	C/W write up	
<b>Assessment this half-term</b>	D3 practical write up E2 practical write up 6 mark in class questions	First draft of U12 LA:B due 13 <sup>th</sup> Jan U12 LA B: Final version due 27 <sup>th</sup> Jan	G3 practical write up 6 mark in class questions
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to evaluate and make conclusions from investigations and data EMPLOYMENT: Project manager, research scientist	LIFE SKILLS: Understanding how different drugs work EMPLOYMENT: Virologist, phlebotomist, research scientist, doctor, nurse	LIFE SKILLS: Understanding how to plan investigations EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article">https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article</a>
<b>Employability Skills</b>	<b>Aiming high</b> <b>Literacy</b> Creativity <b>Numeracy</b> Leadership      Independence      Listening <b>Communication</b> Presenting <b>Teamwork</b> <b>Problem solving</b> Staying positive	<b>Aiming high</b> <b>Literacy</b> <b>Creativity</b> <b>Numeracy</b> Leadership      Independence      Listening <b>Communication</b> Presenting <b>Teamwork</b> <b>Problem solving</b> Staying positive	<b>Aiming high</b> <b>Literacy</b> Creativity <b>Numeracy</b> Leadership      Independence      Listening <b>Communication</b> Presenting <b>Teamwork</b> <b>Problem solving</b> Staying positive
<b>IT Skills</b>	IT1 & IT2: Use of website for research and writing up practical assessments as well as research and write up for c/w unit		
	CLP	DHN	CRE
<b>Week 18 (w/b 16<sup>th</sup> Jan)</b>	Lesson 1: Unit 3: E1 Factors affecting the rate of diffusion - theory Lesson 2: Unit 3: E1 Factors affecting the rate of diffusion - demo	Lesson 1: Unit 12 Learning aim B: improvements Lesson 2: Unit 12 Learning aim B: improvements Lesson 3: Unit 12 Learning aim B: improvements Lesson 4: Unit 12 Learning aim B: improvements	Lesson 1: Unit 3: G3 Fuels – Perform Practical I
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate Diffusion, Brownian motion, concentration gradient, passive process	Identify, describe, explain, deficiency, transmission, effectiveness Vaccination, pathogen, lymphocyte, phagocyte, prescription, infectious disease, causative organism	Identify, describe, explain, explore, compare, evaluate Independent variable, dependent variable, control variable, thermal energy, calorific content
<b>Common Misconceptions</b>	Some students struggle with examples of diffusion other than in the lungs	Identified in write up	Students forget about surface area or mass being a control
<b>Homework</b>		Improvements to c/w	Practical write up
<b>Assessment this half-term</b>	D3 practical write up E2 practical write up 6 mark in class questions	First draft of U12 LA:B due 13 <sup>th</sup> Jan U12 LA B: Final version due 27 <sup>th</sup> Jan	G3 practical write up 6 mark in class questions
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how particles move EMPLOYMENT: Analytical chemist	LIFE SKILLS: Understanding how different drugs work EMPLOYMENT: Virologist, phlebotomist, research scientist, doctor, nurse	LIFE SKILLS: Understanding how to evaluate practical work EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article">https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article</a>
<b>Employability Skills</b>	<b>Aiming high</b> <b>Literacy</b> Creativity <b>Numeracy</b> Leadership      Independence      Listening <b>Communication</b> Presenting <b>Teamwork</b> <b>Problem solving</b> Staying positive	<b>Aiming high</b> <b>Literacy</b> <b>Creativity</b> <b>Numeracy</b> Leadership      Independence      Listening <b>Communication</b> Presenting <b>Teamwork</b> <b>Problem solving</b> Staying positive	<b>Aiming high</b> <b>Literacy</b> Creativity <b>Numeracy</b> Leadership      Independence      Listening <b>Communication</b> Presenting <b>Teamwork</b> <b>Problem solving</b> Staying positive
<b>IT Skills</b>	IT1 & IT2: Use of website for research and writing up practical assessments as well as research and write up for c/w unit		
	CLP	DHN	CRE
<b>Week 19 (w/b 23<sup>rd</sup> Jan)</b>	Lesson 1: Unit 3: E2 Arrangement and movement of molecules – Brownian motion Lesson 2: Unit 3: E2 Arrangement and movement of molecules – Practical planning	Lesson 1: Unit 12 Learning aim B: improvements Lesson 2: Unit 12 Learning aim B: improvements Lesson 3: Unit 12 Learning aim B: improvements Lesson 4: Unit 12 Learning aim B: improvements	Lesson 1: Unit 3: G3 Fuels – Perform Practical II

<b>Key Words</b> Level 2 Level 3	Identify, describe, explain, explore, compare, evaluate Diffusion, Brownian motion, concentration gradient, passive process, independent variable, dependent variable, control variable	Identify, describe, explain, deficiency, transmission, effectiveness Vaccination, pathogen, lymphocyte, phagocyte, prescription, infectious disease, causative organism	Identify, describe, explain, explore, compare, evaluate Independent variable, dependent variable, control variable, thermal energy, calorific content
<b>Common Misconceptions</b>	Some students struggle with examples of diffusion other than in the lungs	Identified in write up	Students forget about surface area or mass being a control
<b>Homework</b>	Practical write up	Improvements to c/w	
<b>Assessment this half-term</b>	D3 practical write up E2 practical write up 6 mark in class questions	First draft of U12 LA:B due 13 <sup>TH</sup> Jan U12 LA B: Final version due 27 <sup>th</sup> Jan	G3 practical write up 6 mark in class questions
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how particles move EMPLOYMENT: Analytical chemist	LIFE SKILLS: Understanding how different drugs work EMPLOYMENT: Virologist, phlebotomist, research scientist, doctor, nurse	LIFE SKILLS: Understanding how to evaluate practical work EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article">https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article</a>
<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication
<b>IT Skills</b>	IT1 & IT2: Use of website for research and writing up practical assessments as well as research and write up for c/w unit		
	CLP	DHN	CRE
<b>Week 20 (w/b 30<sup>th</sup> Jan)</b>	Lesson 1: Unit 3: E2 Arrangement and movement of molecules – Results Lesson 2: Unit 3: E2 Arrangement and movement of molecules – Analysis and evaluations	Lesson 1: Unit 12 Learning aim C: Understanding how infectious diseases can be treated and managed – modes of action Lesson 2: Unit 12 Learning aim C: Understanding how infectious diseases can be treated and managed – modes of action Lesson 3: Unit 12 Learning aim C: Understanding how infectious diseases can be treated and managed – modes of action Lesson 4: Unit 12 Learning aim C: Understanding how infectious diseases can be treated and managed – modes of action	Lesson 1: Unit 3: G3 Fuels – Perform Practical – calculations and analysis
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain, explore, compare, evaluate Diffusion, Brownian motion, concentration gradient, passive process, independent variable, dependent variable, control variable	Identify, describe, explain, explore, compare, evaluate Parasite, protozoa, antiviral, anti-retroviral, antibiotic, immunoglobulin, antimalarial, antifungal, anthelmintic, vaccination, intravenous, intramuscular	Identify, describe, explain, explore, compare, evaluate Independent variable, dependent variable, control variable, thermal energy, calorific content
<b>Common Misconceptions</b>	Identified in practical work	All drugs work in the same way	Unit conversions
<b>Homework</b>	Practical write up	Research modes of action	
<b>Assessment this half-term</b>	D3 practical write up E2 practical write up 6 mark in class questions	First draft of U12 LA:B due 13 <sup>TH</sup> Jan U12 LA B: Final version due 27 <sup>th</sup> Jan	G3 practical write up 6 mark in class questions
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how particles move EMPLOYMENT: Analytical chemist	LIFE SKILLS: Understanding how different drugs work EMPLOYMENT: Virologist, phlebotomist, research scientist, doctor, nurse	LIFE SKILLS: Understanding how to evaluate practical work EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article">https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article</a>
<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication
<b>IT Skills</b>	IT1 & IT2: Use of website for research and writing up practical assessments as well as research and write up for c/w unit		
	CLP	DHN	CRE
<b>Week 21 (w/b 6<sup>th</sup> Feb)</b>	Lesson 1: Unit 3: E2 Arrangement and movement of molecules – diffusion of food dye through agar – practical Lesson 2: Unit 3: E2 Arrangement and movement of molecules – diffusion of food dye through agar – analysis and evaluation	Lesson 1: Unit 12 Learning aim C: Set task Lesson 2: Unit 12 Learning aim C: Student task Lesson 3: Unit 12 Learning aim C: Student task Lesson 4: Unit 12 Learning aim C: Student task	Lesson 1: Unit 3: G3 Fuels – Perform Practical – conclusion, evaluation
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain, explore, compare, evaluate Diffusion, Brownian motion, concentration gradient, passive process, independent variable, dependent variable, control variable	Identify, describe, explain, explore, compare, evaluate Parasite, protozoa, antiviral, anti-retroviral, antibiotic, immunoglobulin, antimalarial, antifungal, anthelmintic, vaccination, intravenous, intramuscular	Identify, describe, explain, explore, compare, evaluate Independent variable, dependent variable, control variable, thermal energy, calorific content

<b>Common Misconceptions</b>	Identified in practical work	Identified in write up	Graph axis
<b>Homework</b>		C/W write up	Practical write up
<b>Assessment this half-term</b>	D3 practical write up E2 practical write up 6 mark in class questions	First draft of U12 LA:B due 13 <sup>TH</sup> Jan U12 LA B: Final version due 27 <sup>th</sup> Jan	G3 practical write up 6 mark in class questions
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how particles move EMPLOYMENT: Analytical chemist	LIFE SKILLS: Understanding how different drugs work EMPLOYMENT: Virologist, phlebotomist, research scientist, doctor, nurse	LIFE SKILLS: Understanding how to evaluate practical work EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article">https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article</a>
<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication
<b>IT Skills</b>	IT1 & IT2: Use of website for research and writing up practical assessments as well as research and write up for c/w unit		
	CLP	DHN	CRE
<b>Week 22 (w/b 13th Feb)</b>	Lesson 1: Unit 3: E2 Arrangement and movement of molecules – secondary evidence Lesson 2: Unit 3: E2 Arrangement and movement of molecules – secondary evidence	Lesson 1: Unit 12 Learning aim C: Student task Lesson 2: Unit 12 Learning aim C: Student task Lesson 3: Unit 12 Learning aim C: Student task Lesson 4: Unit 12 Learning aim C: Student task	Lesson 1: Unit 3: G3 Fuels – comparison with textbook/packaging values
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain, explore, compare, evaluate Diffusion, Brownian motion, concentration gradient, passive process	Identify, describe, explain, explore, compare, evaluate Parasite, protozoa, antiviral, anti-retroviral, antibiotic, immunoglobulin, antimalarial, antifungal, anthelmintic, vaccination, intravenous, intramuscular	Identify, describe, explain, explore, compare, evaluate Calorific content
<b>Common Misconceptions</b>	How to check for bias	Identified in write up	Conversions of mass for comparison
<b>Homework</b>	Review of the secondary evidence	C/W write up	
<b>Assessment this half-term</b>	D3 practical write up E2 practical write up 6 mark in class questions	First draft of U12 LA:B due 13 <sup>TH</sup> Jan U12 LA B: Final version due 27 <sup>th</sup> Jan	G3 practical write up 6 mark in class questions
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Checking for inaccuracies and bias EMPLOYMENT: Proof reader	LIFE SKILLS: Understanding how different drugs work EMPLOYMENT: Virologist, phlebotomist, research scientist, doctor, nurse	LIFE SKILLS: Understanding how to interpret energy values on packaging EMPLOYMENT: Nutritionist
<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication
<b>IT Skills</b>	IT1 & IT2: Use of website for research and writing up practical assessments as well as research and write up for c/w unit		
	CLP	DHN	CRE
<b>Week 23 (w/b 27<sup>th</sup> Feb)</b>	Lesson 1: Unit 3: F1 Factors that can affect plant growth and/or distribution – biotic factors Lesson 2: Unit 3: F1 Factors that can affect plant growth and/or distribution – abiotic factors	Lesson 1: Unit 12 Learning aim C: Student task Lesson 2: Unit 12 Learning aim C: Student task Lesson 3: Unit 12 Learning aim C: Student task Lesson 4: Unit 12 Learning aim C: Student task	Lesson 1: Unit 3: G3 Fuels – Energy from candle wax - demo
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain, explore, compare, evaluate, abundance, mean, median, mode, valid, representative sample Biotic, abiotic, quadrat, transect, Chi squared, independent variable, dependent variable, control variable	Identify, describe, explain, explore, compare, evaluate Parasite, protozoa, antiviral, anti-retroviral, antibiotic, immunoglobulin, antimalarial, antifungal, anthelmintic, vaccination, intravenous, intramuscular	Identify, describe, explain, explore, compare, evaluate Thermal energy, independent variable, dependent variable, control variable
<b>Common Misconceptions</b>	Confusing non-living factors	Identified in task	All candles release the same thermal energy
<b>Homework</b>	Essay: Factors affecting plant growth and distribution	C/W write up	
<b>Assessment this half-term</b>	U3 F3 practical write up	First draft of U12 LA:C due 4 <sup>th</sup> Mar U12 LA C: Final version due 17 <sup>th</sup> Mar	6 mark in class questions

<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how different factors affect organisms EMPLOYMENT: Ecologist	LIFE SKILLS: Organisation and deadlines EMPLOYMENT: Project manager	LIFE SKILLS: Understanding how to choose appropriate fuels EMPLOYMENT: <a href="https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article">https://edu.rsc.org/job-profiles/solar-technology-engineer/4013827.article</a>
<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication
<b>IT Skills</b>	IT1 & IT2: Research skills and use of appropriate websites for homework and c/w write up		
	CLP	DHN	CRE
<b>Week 24 (w/b 6<sup>th</sup> Mar)</b>	Lesson 1: Unit 3: F2 Sampling techniques Lesson 2: Unit 3: F3 Sampling sizes	Lesson 1: Unit 12 Learning aim C: improvements Lesson 2: Unit 12 Learning aim C: improvements Lesson 3: Unit 12 Learning aim C: improvements Lesson 4: Unit 12 Learning aim C: improvements	Lesson 1: Unit 3: H1 Uses of electrical symbols to design circuits – electrical resistance
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate, abundance, mean, median, mode, valid, representative sample Biotic, abiotic, quadrat, transect, Chi squared, independent variable, dependent variable, control variable	Identify, describe, explain, explore, compare, evaluate Parasite, protozoa, antiviral, anti-retroviral, antibiotic, immunoglobulin, antimalarial, antifungal, anthelmintic, vaccination, intravenous, intramuscular	Identify, describe, explain, explore, compare, evaluate Series, parallel, ammeter, voltmeter, resistor, ohm, diode, current, voltage, thermistor, filament bulb, SHC
<b>Common Misconceptions</b>	Belt and line transects are the same	Identified in task	The difference between a cell and a battery
<b>Homework</b>	Sampling techniques overview	C/W write up	
<b>Assessment this half-term</b>	U3 F3 practical write up	First draft of U12 LA:C due 4 <sup>th</sup> Mar U12 LA C: Final version due 17 <sup>th</sup> Mar	6 mark in class questions
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to sample an area and use evidence to draw conclusions EMPLOYMENT: DEFRA, Environment agency	LIFE SKILLS: Organisation and deadlines EMPLOYMENT: Project manager	LIFE SKILLS: Understanding how to set up circuits EMPLOYMENT: Electrician
<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication
<b>IT Skills</b>	IT1 & IT2: Research skills and use of appropriate websites for homework and c/w write up		
	CLP	DHN	CRE
<b>Week 25 (w/b 13<sup>th</sup> Mar)</b>	Lesson 1: Unit 3: F3 Sampling sizes – Method and risk assessment Lesson 2: Unit 3: F3 Sampling sizes – practical work	Lesson 1: Unit 12 Learning aim C: improvements Lesson 2: Unit 12 Learning aim C: improvements Lesson 3: Unit 12 Learning aim C: improvements Lesson 4: Unit 12 Learning aim C: improvements	Lesson 1: Unit 3: H1 Uses of electrical symbols to design circuits – electrical resistance -practical demo
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate, abundance, mean, median, mode, valid, representative sample Biotic, abiotic, quadrat, transect, Chi squared, independent variable, dependent variable, control variable	Identify, describe, explain, explore, compare, evaluate Parasite, protozoa, antiviral, anti-retroviral, antibiotic, immunoglobulin, antimalarial, antifungal, anthelmintic, vaccination, intravenous, intramuscular	Identify, describe, explain, explore, compare, evaluate Series, parallel, ammeter, voltmeter, resistor, ohm, diode, current, voltage, thermistor, filament bulb, SHC
<b>Common Misconceptions</b>	Belt and line transects are the same	Identified in task	How to draw a bulb in a circuit diagram
<b>Homework</b>		C/W write up	Graphs of results
<b>Assessment this half-term</b>	U3 F3 practical write up	First draft of U12 LA:C due 4 <sup>th</sup> Mar U12 LA C: Final version due 17 <sup>th</sup> Mar	6 mark in class questions
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to sample an area and use evidence to draw conclusions EMPLOYMENT: DEFRA, Environment agency	LIFE SKILLS: Organisation and deadlines EMPLOYMENT: Project manager	LIFE SKILLS: Understanding how to set up circuits EMPLOYMENT: Electrician
<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication	Aiming high Leadership Presenting Problem solving Literacy Independence Teamwork Staying positive Creativity Listening Numeracy Communication
<b>IT Skills</b>	IT1 & IT2: Research skills and use of appropriate websites for homework and c/w write up		

	CLP	DHN	CRE
<b>Week 26</b> (w/b 20 <sup>th</sup> Mar)	Lesson 1: Unit 3: F3 Sampling sizes – practical work Lesson 2: Unit 3: F3 Sampling sizes – statistical analysis of data (mean, median, mode)	Lesson 1: Unit 12 Learning aim D: Humoral response Lesson 2: Unit 12 Learning aim D: Humoral response Lesson 3: Unit 12 Learning aim D: Cell mediated response Lesson 4: Unit 12 Learning aim D: Specific and non-specific defence mechanisms	Lesson 1: Unit 3: H1 Uses of electrical symbols to design circuits – thermistor demo
<b>Key Words</b> <b>Level 2</b> <b>Level 3</b>	Identify, describe, explain, explore, compare, evaluate, abundance, mean, median, mode, valid, representative sample Biotic, abiotic, quadrat, transect, Chi squared, independent variable, dependent variable, control variable	Identify, describe, explain, explore, compare, evaluate Pathogen, lymphocyte, phagocyte, humoral response, cell mediated response, immunity, helper T cells, killer T cells, phagocytosis, antibody, antigen	Identify, describe, explain, explore, compare, evaluate Series, parallel, ammeter, voltmeter, resistor, ohm, diode, current, voltage, thermistor, filament bulb, SHC
<b>Common Misconceptions</b>	Whether to include anomalous results	All responses are from white blood cells	The uses thermistors and resistors
<b>Homework</b>	Practical write up	Mechanisms overview	
<b>Assessment this half-term</b>	U3 F3 practical write up	First draft of U12 LA:C due 4 <sup>th</sup> Mar U12 LA C: Final version due 17 <sup>th</sup> Mar	6 mark in class questions
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how to sample an area and use evidence to draw conclusions EMPLOYMENT: DEFRA, Environment agency	LIFE SKILLS: Understanding the bodies response to pathogens EMPLOYMENT: Virologist, doctor, nurse, paramedic	LIFE SKILLS: Understanding how to set up circuits EMPLOYMENT: Electrician
<b>Employability Skills</b>	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive
<b>IT Skills</b>	IT1 & IT2: Research skills and use of appropriate websites for homework and c/w write up		
	CLP	DHN	CRE
<b>Week 27</b> (w/b 27 <sup>th</sup> Mar)	Lesson 1: Unit 3: F3 Sampling sizes – statistical analysis of data (standard deviation) Lesson 2: Unit 3: F3 Sampling sizes – statistical analysis of data (Chi squared)	Lesson 1: Unit 12 Learning aim D: Set task Lesson 2: Unit 12 Learning aim D: Student task Lesson 3: Unit 12 Learning aim D: Student task Lesson 4: Unit 12 Learning aim D: Student task	Lesson 1: Unit 3: H2 Equations
<b>Key Words</b> <b>Level 2</b> <b>Level 3</b>	Identify, describe, explain, explore, compare, evaluate, abundance, mean, median, mode, valid, representative sample Biotic, abiotic, quadrat, transect, Chi squared, independent variable, dependent variable, control variable	Identify, describe, explain, explore, compare, evaluate Pathogen, lymphocyte, phagocyte, humoral response, cell mediated response, immunity, helper T cells, killer T cells, phagocytosis, antibody, antigen	Identify, describe, explain, explore, compare, evaluate Series, parallel, ammeter, voltmeter, resistor, ohm, diode, current, voltage, thermistor, filament bulb, SHC
<b>Common Misconceptions</b>	Whether to include anomalous results	Identified in task	Rearranging formulae
<b>Homework</b>	Statistics questions	C/W write up	Equations practice
<b>Assessment this half-term</b>	U3 F3 practical write up	First draft of U12 LA:C due 4 <sup>th</sup> Mar U12 LA C: Final version due 17 <sup>th</sup> Mar	6 mark in class questions
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how to sample an area and use evidence to draw conclusions EMPLOYMENT: DEFRA, Environment agency	LIFE SKILLS: Understanding the bodies response to pathogens EMPLOYMENT: Virologist, doctor, nurse, paramedic	LIFE SKILLS: Understanding how to interpret circuit data EMPLOYMENT: Electrician
<b>Employability Skills</b>	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive
<b>IT Skills</b>	IT1 & IT2: Research skills and use of appropriate websites for homework and c/w write up		

	CLP	DHN	CRE
<b>Week 28</b> (w/b 17 <sup>th</sup> Apr)	Lesson 1: Unit 3: F3 Sampling sizes – plant populations - planning Lesson 2: Unit 3: F3 Sampling sizes – plant populations - planning	Lesson 1: Unit 12 Learning aim D: Student task Lesson 2: Unit 12 Learning aim D: Student task Lesson 3: Unit 12 Learning aim D: Student task Lesson 4: Unit 12 Learning aim D: Student task	Lesson 1: Unit 3: H3 Energy usage – energy ratings and worked examples

<b>Key Words</b> <b>Level 2</b> <b>Level 3</b>	Identify, describe, explain, explore, compare, evaluate, abundance, mean, median, mode, valid, representative sample Biotic, abiotic, quadrat, transect, Chi squared, independent variable, dependent variable, control variable	Identify, describe, explain, explore, compare, evaluate Pathogen, lymphocyte, phagocyte, humoral response, cell mediated response, immunity, helper T cells, killer T cells, phagocytosis, antibody, antigen	Identify, describe, explain, explore, compare, evaluate Series, parallel, ammeter, voltmeter, resistor, ohm, diode, current, voltage, thermistor, filament bulb, SHC
<b>Common Misconceptions</b>	All plants have the same tolerance to changing conditions	Identified from c/w	What energy ratings mean
<b>Homework</b>	Unit 3 revision questions	C/W write up	Unit 3 revision questions
<b>Assessment this half-term</b>	U3 F3 practical write up Unit 3 exam	U3 LAD: First draft due 28 <sup>th</sup> April U3 LAD: Final version due 19 <sup>th</sup> May U3 exam	Unit 3 exam
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how to sample an area and use evidence to draw conclusions EMPLOYMENT: DEFRA, Environment agency	LIFE SKILLS: Understanding the bodies response to pathogens EMPLOYMENT: Virologist, doctor, nurse, paramedic	LIFE SKILLS: Understanding how electricity bills are calculated EMPLOYMENT: Electrician
<b>Employability Skills</b>	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive
<b>IT Skills</b>	IT1 & IT2: Research skills and use of appropriate websites for homework and c/w write up		
	CLP	DHN	CRE
<b>Week 29 (w/b 24<sup>th</sup> Apr)</b>	Lesson 1: Unit 3: F3 Sampling sizes – plant populations – obtaining results Lesson 2: Unit 3: F3 Sampling sizes – plant populations – obtaining results	Lesson 1: Unit 12 Learning aim D: Student task Lesson 2: Unit 12 Learning aim D: Student task Lesson 3: Unit 12 Learning aim D: Student task Lesson 4: Unit 12 Learning aim D: Student task	Lesson 1: Unit 3: H3 Energy usage – analysis of electricity bills
<b>Key Words</b> <b>Level 2</b> <b>Level 3</b>	Identify, describe, explain, explore, compare, evaluate, abundance, mean, median, mode, valid, representative sample Biotic, abiotic, quadrat, transect, Chi squared, independent variable, dependent variable, control variable	Identify, describe, explain, explore, compare, evaluate Pathogen, lymphocyte, phagocyte, humoral response, cell mediated response, immunity, helper T cells, killer T cells, phagocytosis, antibody, antigen	Identify, describe, explain, explore, compare, evaluate Series, parallel, ammeter, voltmeter, resistor, ohm, diode, current, voltage, thermistor, filament bulb, SHC
<b>Common Misconceptions</b>	Not making estimations	Identified from c/w	Unit conversions
<b>Homework</b>	Unit 3 revision questions	C/W write up	Unit 3 revision questions
<b>Assessment this half-term</b>	U3 F3 practical write up Unit 3 exam	U3 LAD: First draft due 28 <sup>th</sup> April U3 LAD: Final version due 19 <sup>th</sup> May U3 exam	Unit 3 exam
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Understanding how to sample an area and use evidence to draw conclusions EMPLOYMENT: DEFRA, Environment agency	LIFE SKILLS: Understanding the bodies response to pathogens EMPLOYMENT: Virologist, doctor, nurse, paramedic	LIFE SKILLS: Understanding how electricity bills are calculated EMPLOYMENT: Electrician
<b>Employability Skills</b>	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive
<b>IT Skills</b>	IT1 & IT2: Research skills and use of appropriate websites for homework and c/w write up		
	CLP	DHN	CRE
<b>Week 30 (w/b Tues 2<sup>nd</sup> May)</b>	Lesson 1: Unit 3: F3 Sampling sizes – plant populations – analysing data/statistical analysis Lesson 2: Unit 3: F3 Sampling sizes – plant populations – analysing data/statistical analysis	Lesson 1: Unit 3 exam prep Lesson 2: Unit 3 exam prep Lesson 3: Unit 3 exam prep Lesson 4: Unit 3 exam prep	Lesson 1: Unit 3: H3 Energy usage – SHC of a metal block practical
<b>Key Words</b> <b>Level 2</b> <b>Level 3</b>	Identify, describe, explain, explore, compare, evaluate, abundance, mean, median, mode, valid, representative sample Biotic, abiotic, quadrat, transect, Chi squared, independent variable, dependent variable, control variable	Identify, describe, explain, explore, compare, evaluate Subject specific terminology taken directly from sections D/E/F/G/H	Identify, describe, explain, explore, compare, evaluate Series, parallel, ammeter, voltmeter, resistor, ohm, diode, current, voltage, thermistor, filament bulb, SHC
<b>Common Misconceptions</b>	Supporting evaluations & conclusions with evidence	Identified through questioning	Use of SHC equation
<b>Homework</b>	Unit 3 revision questions	Unit 3 revision questions	Unit 3 revision questions

<b>Assessment this half-term</b>	U3 F3 practical write up Unit 3 exam	U3 LAD: First draft due 28 <sup>th</sup> April U3 LAD: Final version due 19 <sup>th</sup> May U3 exam	Unit 3 exam
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to sample an area and use evidence to draw conclusions EMPLOYMENT: DEFRA, Environment agency	LIFE SKILLS: Revision techniques and organisation EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding how thermal energy is transferred EMPLOYMENT: Heating engineer
<b>Employability Skills</b>	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive
<b>IT Skills</b>	IT1 & IT2: Research skills and use of appropriate websites for homework and c/w write up		
	CLP	DHN	CRE
<b>Week 31 (w/b 8<sup>th</sup> May)</b>	Lesson 1: Unit 3: F3 Sampling sizes – plant populations – evaluations Lesson 2: Unit 3: F3 Sampling sizes – plant populations – evaluations	Lesson 1: Unit 12 Learning aim D: Improvements Lesson 2: Unit 12 Learning aim D: Improvements Lesson 3: Unit 12 Learning aim D: Improvements Lesson 4: Unit 12 Learning aim D: Improvements	Lesson 1: Unit 3: H3 Energy usage – SHC of a metal block analysis of results and graphs
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate, abundance, mean, median, mode, valid, representative sample Biotic, abiotic, quadrat, transect, Chi squared, independent variable, dependent variable, control variable	Identify, describe, explain, explore, compare, evaluate Pathogen, lymphocyte, phagocyte, humoral response, cell mediated response, immunity, helper T cells, killer T cells, phagocytosis, antibody, antigen	Identify, describe, explain, explore, compare, evaluate Series, parallel, ammeter, voltmeter, resistor, ohm, diode, current, voltage, thermistor, filament bulb, SHC
<b>Common Misconceptions</b>	Supporting evaluations & conclusions with evidence	Identified from c/w	Use of SHC equation
<b>Homework</b>	Unit 3 revision questions	C/W write up	Unit 3 revision questions
<b>Assessment this half-term</b>	U3 F3 practical write up Unit 3 exam	U3 LAD: First draft due 28 <sup>th</sup> April U3 LAD: Final version due 19 <sup>th</sup> May U3 exam	Unit 3 exam
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Understanding how to sample an area and use evidence to draw conclusions EMPLOYMENT: DEFRA, Environment agency	LIFE SKILLS: Understanding the bodies response to pathogens EMPLOYMENT: Virologist, doctor, nurse, paramedic	LIFE SKILLS: Understanding how thermal energy is transferred EMPLOYMENT: Heating engineer
<b>Employability Skills</b>	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive	Aiming high      Literacy      Creativity      Numeracy Leadership      Independence      Listening      Communication Presenting      Teamwork Problem solving      Staying positive
<b>IT Skills</b>	IT1 & IT2: Research skills and use of appropriate websites for homework and c/w write up		
	CLP	DHN	CRE
<b>Week 32 (w/b 15<sup>th</sup> May)</b>	Lesson 1: Sample assessment material review Lesson 2: Sample assessment material review	Lesson 1: Unit 12 Learning aim D: Improvements Lesson 2: Unit 12 Learning aim D: Improvements Lesson 3: Unit 12 Learning aim D: Improvements Lesson 4: Unit 12 Learning aim D: Improvements	Lesson 1: Sample assessment material review
<b>Key Words Level 2 Level 3</b>	Identify, describe, explain, explore, compare, evaluate Subject specific keywords identified from the pre-release material	Identify, describe, explain, explore, compare, evaluate Pathogen, lymphocyte, phagocyte, humoral response, cell mediated response, immunity, helper T cells, killer T cells, phagocytosis, antibody, antigen	Identify, describe, explain, explore, compare, evaluate Subject specific keywords identified from the pre-release material
<b>Common Misconceptions</b>	Identified through questioning	Identified from c/w	Identified through questioning
<b>Homework</b>	Unit 3 revision questions	C/W write up	Unit 3 revision questions
<b>Assessment this half-term</b>	U3 F3 practical write up Unit 3 exam	U3 LAD: First draft due 28 <sup>th</sup> April U3 LAD: Final version due 19 <sup>th</sup> May U3 exam	Unit 3 exam
<b>Career opportunities Employment Links</b>	LIFE SKILLS: Revision techniques and organisation EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding the bodies response to pathogens EMPLOYMENT: Virologist, doctor, nurse, paramedic	LIFE SKILLS: Revision techniques and organisation EMPLOYMENT: Research scientist

<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication
<b>IT Skills</b>	IT1 & IT2: Research skills and use of appropriate websites for homework and c/w write up											
	CLP			DHN			CRE					
<b>Week 33 (w/b 22<sup>nd</sup> May)</b>	Lesson 1: Sample assessment material review Lesson 2: Sample assessment material review			Lesson 1: Sample assessment material review Lesson 2: Sample assessment material review Lesson 3: Sample assessment material review Lesson 4: Sample assessment material review			Lesson 1: Sample assessment material review					
<b>Key Words</b> Level 2 Level 3	Identify, describe, explain, explore, compare, evaluate Subject specific keywords identified from the pre-release material			Identify, describe, explain, explore, compare, evaluate Subject specific keywords identified from the pre-release material			Identify, describe, explain, explore, compare, evaluate Subject specific keywords identified from the pre-release material					
<b>Common Misconceptions</b>	Identified through questioning			Identified through questioning			Identified through questioning					
<b>Homework</b>												
<b>Assessment this half-term</b>	U3 F3 practical write up Unit 3 exam			U3 LAD: First draft due 28 <sup>th</sup> April U3 LAD: Final version due 19 <sup>th</sup> May U3 exam			Unit 3 exam					
<b>Career opportunities</b> <b>Employment Links</b>	LIFE SKILLS: Revision techniques and organisation EMPLOYMENT: Research scientist			LIFE SKILLS: Revision techniques and organisation EMPLOYMENT: Research scientist			LIFE SKILLS: Revision techniques and organisation EMPLOYMENT: Research scientist					
<b>Employability Skills</b>	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication	Aiming high Leadership Presenting Problem solving	Literacy Independence Teamwork Staying positive	Creativity Listening	Numeracy Communication
<b>IT Skills</b>	IT1 & IT2: Research skills and use of appropriate websites for homework and c/w write up											