	Year 10		Year 11	
	CLP	CRE	CLP	KMF
Week 1 (w/b Wed 7th Sep)	Lesson 1: Practical skills review Lesson 2: Practical skills review	Lesson 1: Practical skills review Lesson 2: Practical skills review	Lesson 1: Practical skills review Lesson 2: Practical skills review	Lesson 1: Practical skills review Lesson 2: Practical skills review
Key Words **Level 2** **Level 3**	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis
Common Misconceptions	Students often confuse the variables and label graph axes incorrectly	Students often confuse the variables and label graph axes incorrectly	Students often confuse the variables and label graph axes incorrectly	Students often confuse the variables and label graph axes incorrectly
Homework				
Assessment this half-term	Separation methods TDA Iodine clock TDA		Friction forces TDA Rate of cooling TDA Speed TDA	
Career opportunities Employment Links	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Research scientist
Employability Skills	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
	CLP	CRE	CLP	KMF
Week 2 (w/b 12th Sep)	Lesson 1: 3.1.1 What is the body made of – Outcome 1: Cell structure Lesson 2: 3.1.1 What is the body made of – Outcome 1: Specialised cells	Lesson 1: 3.3.1 Atoms, elements and compounds - Outcome 1: Structure of atom and elements in the periodic table Lesson 2: 3.3.1 Atoms, elements and compounds - Outcome 1: Periodic table – location of metals and non-metals	Lesson 1: 3.5.1 Energy, energy transfers and energy resources – Outcome 1: Energy changes Lesson 2: 3.5.1 Energy, energy transfers and energy resources – Outcome 1: Energy changes	Lesson 1: 3.5.2 Forces and work – Outcome 5: Work done Lesson 2: 3.5.2 Forces and work – Outcome 5: Friction forces
Key Words **Level 2** **Level 3**	Identify, describe, explain Nucleus, cell membrane, cell wall, mitochondria, vacuole, ribosome, cytoplasm, specialised	Identify, describe, explain Nucleus, proton, electron, neutron, positive charge, negative charge, neutral, atom, element, compound	Identify, describe, explain Kinetic, chemical, sound, light, thermal, gravitational potential	Identify, describe, explain Friction, Newton, Newtonmeter, temperature
Common Misconceptions	All cells have the same structure	Atoms and elements are the same size	Energy is made/destroyed	Friction is a bad thing
Homework	Cells homework		Energy changes homework	
Assessment this half-term	Separation methods TDA Iodine clock TDA		Friction forces TDA Rate of cooling TDA Speed TDA	
Career opportunities Employment Links	LIFE SKILLS: Understanding what cells do EMPLOYMENT: Nurse	LIFE SKILLS: Understanding the differences between metals and non-metals EMPLOYMENT: Welder	LIFE SKILLS: Understanding how energy is stored EMPLOYMENT: Electrical engineer	LIFE SKILLS: Understanding the role of friction EMPLOYMENT: Mechanic
Employability Skills	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
IT Skills	IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework	
	CLP	CRE	CLP	KMF
Week 3 (w/b 19th Sep)	Lesson 1: 3.1.1 What is the body made of – Outcome 2: Organisation Lesson 2: 3.1.1 What is the body made of – Outcome 2: Organ systems	Lesson 1: 3.3.1 Atoms, elements and compounds - Outcome 1: Group 1 metals – metals and water demo Lesson 2: 3.3.1 Atoms, elements and compounds - Outcome 1: Group 7 – displacing halogens prac	Lesson 1: 3.5.1 Energy, energy transfers and energy efficiency – Outcome 2: Energy transfers Lesson 2: 3.5.1 Energy, energy transfers and energy efficiency – Outcome 2: Energy efficiency	Lesson 1: 3.5.2 Forces and work – Outcome 5: Friction forces **TDA** Lesson 2: 3.5.2 Forces and work – Outcome 5: Friction forces **TDA**
Key Words **Level 2**	Identify, describe, explain Cell, tissue, organ, system	Identify, describe, explain Alkali, element, hydrogen, reaction, displace	Identify, describe, explain	Identify, describe, explain

Level 3			Kinetic, chemical, sound, light, thermal, gravitational potential, efficiency	Independent variable, dependent variable, control variable, valid experiment, hypothesis, friction, Newton, Newtonmeter, temperature
Common Misconceptions	Organs can only belong to 1 system	Group 1 and group 7 react in the same way	Energy can be made or destroyed	Students often confuse the variables and label graph axes incorrectly
Homework		Reactivity series homework		Friction homework
Assessment this half-term	Separation methods TDA Iodine clock TDA		Friction forces TDA Rate of cooling TDA Speed TDA	
Career opportunities Employment Links	LIFE SKILLS: Understanding how the body works EMPLOYMENT: Nurse	LIFE SKILLS: Understanding how metals react EMPLOYMENT: Jeweller	LIFE SKILLS: Understanding efficiency EMPLOYMENT: Engineer	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Mechanic
Employability Skills	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
IT Skills		IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework
	CLP	CRE	CLP	KMF
Week 4 (w/b 26th Sep)	Lesson 1: 3.1.1 What is the body made of – Outcome 2: The blood Lesson 2: 3.1.1 What is the body made of – Outcome 2: Circulatory system	Lesson 1: 3.3.1 Atoms, elements and compounds - Outcome 2: How elements react Lesson 2: 3.3.1 Atoms, elements and compounds - Outcome 2: Metals + non-metals reactions	Lesson 1: 3.5.1 Energy, energy transfers and energy resources – Outcome 2: Energy efficiency Lesson 2: 3.5.1 Energy, energy transfers and energy resources – Outcome 2: Unwanted energy	Lesson 1: 3.5.2 Forces and work – Outcome 5: Friction forces **TDA** Lesson 2: 3.5.2 Forces and work – Outcome 5: Friction forces **TDA**
Key Words **Level 2** **Level 3**	Identify, describe, explain Platelet, red blood cell, white blood cell, plasma, artery, vein, capillary, heart, ventricle, atrium, aorta	Identify, describe, explain Metal oxide, reactivity, compounds, properties	Identify, describe, explain Kinetic, chemical, sound, light, thermal, gravitational potential, efficiency, conduction	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, friction, Newton, Newtonmeter, temperature
Common Misconceptions	Blood is red because plasma is red	All elements react the same way	Unwanted energy is always less than wanted energy	Students often confuse the variables and label graph axes incorrectly
Homework	Circulatory system homework (the heart)		Wasted energy homework	
Assessment this half-term	Separation methods TDA Iodine clock TDA		Friction forces TDA Rate of cooling TDA Speed TDA	
Career opportunities Employment Links	LIFE SKILLS: Understanding the roles of the components in blood EMPLOYMENT: Transfusion nurse	LIFE SKILLS: Understanding how metals react EMPLOYMENT: Jeweller	LIFE SKILLS: Understanding efficiency EMPLOYMENT: Engineer	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Mechanic
Employability Skills	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
IT Skills	IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework	
	CLP	CRE	CLP	KMF
Week 5 (w/b 3rd Oct)	Lesson 1: 3.1.1 – Heart dissection and pluck Lesson 2: 3.1.1 What is the body made of – Outcome 3: Digestive system	Lesson 1: 3.3.1 Atoms, elements and compounds - Outcome 2: Word equations Lesson 2: 3.3.2 How structure affects properties - Outcome 3: Three states of matter	Lesson 1: 3.5.1 Energy, energy transfers and energy resources – Outcome 2: Rate of cooling Lesson 2 3.5.1 Energy, energy transfers and energy resources – Outcome 2: Thermal conductivity	Lesson 1: 3.5.3 Speed and stopping distances – Outcome 6: Speed calculations Lesson 2: 3.5.3 Speed and stopping distances – Outcome 6: Speed calculations
Key Words **Level 2** **Level 3**	Identify, describe, explain Atrium, ventricle, aorta, artery, vein, coronary, oesophagus, stomach, intestine, rectum, pancreas, liver	Identify, describe, explain Metal oxide, reactivity, compounds, properties, solid, liquid, gas	Identify, describe, explain Kinetic, chemical, sound, light, thermal, gravitational potential, efficiency, conduction	Identify, describe, explain Speed, distance, time, equation, kilometre, distance, travel
Common Misconceptions	Sides of the heart	Using an = instead of →	Students often confuse the variables and label graph axes incorrectly	Rearranging the speed equation

Homework		Changing states homework		Speed calculations homework
Assessment this half-term	Separation methods TDA Iodine clock TDA		Friction forces TDA Rate of cooling TDA Speed TDA	
Career opportunities Employment Links	LIFE SKILLS: Understanding how the heart works EMPLOYMENT: Personal trainer	LIFE SKILLS: Understanding why materials change state EMPLOYMENT: Chef	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Heating engineer	LIFE SKILLS: Understanding how stopping distances can be affected by external conditions EMPLOYMENT: Police officer
Employability Skills	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
IT Skills		IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework
	CLP	CRE	CLP	KMF
Week 6 (w/b 10th Oct)	Lesson 1: 3.1.1 What is the body made of – Outcome 3: Digestive system enzymes Lesson 2: 3.1.1 What is the body made of – Outcome 3: **TDA** - Iodine clock enzyme	Lesson 1: 3.3.2 How structure affects properties - Outcome 3: Changing state Lesson 2: 3.3.2 How structure affects properties - Outcome 4: Structure of diamond and graphite	Lesson 1: 3.5.1 Energy, energy transfers and energy resources – Outcome 2: Thermal conductivity - **TDA** Lesson 2: 3.5.1 Energy, energy transfers and energy resources – Outcome 2: Thermal conductivity - **TDA**	Lesson 1: 3.5.3 Speed and stopping distances – Outcome 6: Speed **TDA** Lesson 2: 3.5.3 Speed and stopping distances – Outcome 6: Speed **TDA**
Key Words **Level 2** **Level 3**	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, enzyme, amylase, denature	Identify, describe, explain Freezing, melting, evaporation, condensation, covalent, carbon, bond	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, kinetic, chemical, sound, light, thermal, gravitational potential, efficiency, conduction	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, speed, distance, time, equation, kilometre, distance, travel
Common Misconceptions	Students often confuse the variables and label graph axes incorrectly	That elements only have one state	Students often confuse the variables and label graph axes incorrectly	Students often confuse the variables and label graph axes incorrectly
Homework	Digestive system homework		Energy transfer homework	
Assessment this half-term	Separation methods TDA Iodine clock TDA		Friction forces TDA Rate of cooling TDA Speed TDA	
Career opportunities Employment Links	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Food scientist	LIFE SKILLS: Understanding why materials change state EMPLOYMENT: Chef	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Heating engineer	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Police officer
Employability Skills	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
IT Skills	IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework	
	CLP	CRE	CLP	KMF
Week 7 (w/b 17th Oct)	Lesson 1: 3.1.1 What is the body made of – Outcome 3: **TDA** - Iodine clock enzyme Lesson 2: 3.1.1 What is the body made of – Outcome 3: **TDA** - Iodine clock enzyme	Lesson 1: 3.3.3 Separating mixtures - Outcome 5: Separation methods – **TDA:** filtering particles Lesson 2: 3.3.3 Separating mixtures - Outcome 5: Separation methods – **TDA:** filtering particles	Lesson 1: 3.5.1 Energy, energy transfers and energy resources – Outcome 2: Thermal conductivity - **TDA** Lesson 2: 3.5.1 Energy, energy transfers and energy resources – Outcome 2: Thermal conductivity - **TDA**	Lesson 1: 3.5.3 Speed and stopping distances – Outcome 6: Speed **TDA** Lesson 2: 3.5.3 Speed and stopping distances – Outcome 6: Speed **TDA**
Key Words **Level 2** **Level 3**	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, enzyme, amylase, denature	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, filtration, distillation, crystallisation, chromatography, mixture, separation	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, kinetic, chemical, sound, light, thermal, gravitational potential, efficiency, conduction	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, speed, distance, time, equation, kilometre, distance, travel
Common Misconceptions	Students often confuse the variables and label graph axes incorrectly	Students often confuse the variables and label graph axes incorrectly	Students often confuse the variables and label graph axes incorrectly	Students often confuse the variables and label graph axes incorrectly
Homework		Separation techniques homework		Stopping distances homework

Assessment this half-term	Separation methods TDA Iodine clock TDA		Friction forces TDA Rate of cooling TDA Speed TDA	
Career opportunities Employment Links	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Baby food manufacturer	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Chef	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Heating engineer	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Traffic officer
Employability Skills	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
IT Skills		IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework

	Year 10		Year 11	
	CLP	CRE	CLP	KMF
Week 8 (w/b Mon 31st Oct)	Lesson 1: 3.1.1 What is the body made of – Outcome 3: **TDA**- Digestive system – food tests Lesson 2: 3.1.1 What is the body made of – Outcome 3: **TDA** -Digestive system – food tests	Lesson 1: 3.3.3 Separating mixtures - Outcome 5: Separation methods – **TDA:** filtering particles Lesson 2: 3.3.3 Separating mixtures - Outcome 5: Separation methods – **TDA:** filtering particles	Lesson 1: 3.5.4 Atoms and nuclear radiation – Outcome 10: Radioactive decay Lesson 2: 3.5.4 Atoms and nuclear radiation – Outcome 10: Nuclear radiation	Lesson 1: 3.5.3 Speed and stopping distances – Outcome 7: Stopping distances Lesson 2: 3.5.3 Speed and stopping distances – Outcome 8: Reaction times
Key Words **Level 2** **Level 3**	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, protein, carbohydrate, starch, sugar, fat, ethanol, Benedicts, biuret, iodine	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, filtration, distillation, crystallisation, chromatography, mixture, separation	Identify, describe, explain Alpha, Beta, emit, Gamma, ionising radiation, nucleus, penetration, radioactivity	Identify, describe, explain Speed, acceleration, braking, friction
Common Misconceptions	Students often confuse the variables and label graph axes incorrectly	Students often confuse the variables and label graph axes incorrectly	That Sellafield is a nuclear power station	Stopping distances are the same no matter what the speed
Homework	Digestive system homework		Radiation homework	
Assessment this half-term	Food tests **TDA** Separation methods **TDA** Chromatography **TDA** Exercise and fitness **TDA**		Reaction times **TDA** Materials as conductors **TDA** Unit 5 exam	
Career opportunities Employment Links	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Quality control	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Chef	LIFE SKILLS: Understand the dangers of different types of radiation EMPLOYMENT: Health physics monitor	LIFE SKILLS: Understand what can affect stopping distances EMPLOYMENT: CSI, police officer
Employability Skills	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
IT Skills	IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework	
	CLP	CRE	CLP	KMF
Week 9 (w/b 7th Nov)	Lesson 1: 3.1.1 What is the body made of – Outcome 3: **TDA**- Digestive system – food tests Lesson 2: 3.1.1 What is the body made of – Outcome 3: **TDA** -Digestive system – food tests	Lesson 1: 3.3.3 Separating mixtures – Outcome 6: Paper chromatography Lesson 2: 3.3.3 Separating mixtures – Outcome 6: **TDA:** Paper chromatography	Lesson 1: Unit 5 project Lesson 2: Unit 5 project	Lesson 1: 3.5.3 Speed and stopping distances – Outcome 8: **TDA**: Reaction times Lesson 2: 3.5.3 Speed and stopping distances – Outcome 8: **TDA**: Reaction times
Key Words **Level 2** **Level 3**	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, protein, carbohydrate, starch, sugar, fat, ethanol, Benedicts, biuret, iodine	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, chromatogram, soluble, solvent, solution	Identify, describe, explain Varied depending on project choice	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, speed, acceleration, braking, friction, reaction, response
Common Misconceptions	Students often confuse the variables and label graph axes incorrectly	Students will sometimes draw the baseline in pen	Identified through questioning	Everyone's reaction times are affected in the same way
Homework		Chromatography homework		Reaction times homework

Assessment this half-term	Food tests **TDA** Separation methods **TDA** Chromatography **TDA** Exercise and fitness **TDA**		Reaction times **TDA** Materials as conductors **TDA** Unit 5 exam	
Career opportunities Employment Links	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Quality control	LIFE SKILLS: Understanding how substances can be separated EMPLOYMENT: Forensic scientist	LIFE SKILLS: Presenting to an audience EMPLOYMENT: Project manager	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: CSI, crash investigator
Employability Skills	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
IT Skills		IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework
	CLP	CRE	CLP	KMF
Week 10 (w/b 14th Nov)	Lesson 1: 3.1.2 How the body works – Outcome 4: Respiration Lesson 2: 3.1.2 How the body works – Outcome 4: Lifestyle and diet	Lesson 1: 3.3.3 Separating mixtures – Outcome 6: **TDA**: Paper chromatography Lesson 2: 3.3.3 Separating mixtures – Outcome 6: **TDA**: Paper chromatography	Lesson 1: Unit 5 project Lesson 2: Unit 5 project	Lesson 1: 3.5.3 Speed and stopping distances – Outcome 8: **TDA**: Reaction times Lesson 2: 3.5.3 Speed and stopping distances – Outcome 8: **TDA**: Reaction times
Key Words **Level 2** **Level 3**	Identify, describe, explain Pulse, pulse rate, respiration	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, chromatogram, soluble, solvent, solution	Identify, describe, explain Varied depending on project choice	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, speed, acceleration, braking, friction, reaction, response
Common Misconceptions	That respiration and breathing are the same thing	Students will sometimes draw the baseline in pen	Identified through questioning	Everyone's reaction times are affected in the same way
Homework	Diet homework		Finalising project	
Assessment this half-term	Food tests **TDA** Separation methods **TDA** Chromatography **TDA** Exercise and fitness **TDA**		Reaction times **TDA** Materials as conductors **TDA** Unit 5 exam	
Career opportunities Employment Links	LIFE SKILLS: Understand how diet and lifestyle can affect health EMPLOYMENT: Health care worker, personal trainer	LIFE SKILLS: Understanding how substances can be separated EMPLOYMENT: Forensic scientist	LIFE SKILLS: Presenting to an audience EMPLOYMENT: Project manager	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: CSI, crash investigator
Employability Skills	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
IT Skills	IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework	
	CLP	CRE	CLP	KMF
Week 11 (w/b 21st Nov)	Lesson 1: 3.1.2 How the body works – Outcome 4: Lifestyle and diet – **TDA**: Exercise and fitness Lesson 2: 3.1.2 How the body works – Outcome 4: Lifestyle and diet – **TDA**: Exercise and fitness	Lesson 1: 3.3.3 Separating mixtures – Outcome 6: **TDA**: Paper chromatography Lesson 2: 3.3.4 Metals and alloys – Outcome 7: Unreactive metals	Lesson 1: Unit 5 review Lesson 2: Unit 5 review	Lesson 1: 3.5.3 Speed and stopping distances – Outcome 9: Braking distances Lesson 2: Unit 5 review
Key Words **Level 2** **Level 3**	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, pulse, pulse rate, respiration	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, chromatogram, soluble, solvent, solution	Identify, describe, explain As per Unit 5 key words list from HT1 & HT2	Identify, describe, explain As per Unit 5 key words list from HT1 & HT2
Common Misconceptions	Students often confuse the variables and label graph axes incorrectly	Students will sometimes draw the baseline in pen	Identified from questioning	All braking distances are the same regardless of the speed
Homework		Unreactive metals homework		Braking distances homework
Assessment this half-term	Food tests **TDA** Separation methods **TDA** Chromatography **TDA** Exercise and fitness **TDA**		Reaction times **TDA** Materials as conductors **TDA** Unit 5 exam	

Career opportunities Employment Links	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Fitness instructor	LIFE SKILLS: Understand how metals are extracted EMPLOYMENT: Process worker	LIFE SKILLS: Reviewing and evaluating work EMPLOYMENT: Project manager	LIFE SKILLS: Determining stopping distance EMPLOYMENT: CSI, crash investigator
Employability Skills	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
IT Skills		IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework
	CLP	CRE	CLP	KMF
Week 12 (w/b 28th Nov)	Lesson 1: 3.1.2 How the body works – Outcome 4: Lifestyle and diet – **TDA**: Exercise and fitness Lesson 2: 3.1.2 How the body works – Outcome 4: Lifestyle and diet – **TDA**: Exercise and fitness	Lesson 1: 3.3.4 Metals and alloys – Outcome 7: Ores and mining Lesson 2: 3.3.4 Metals and alloys – Outcome 7: Ores and mining	Lesson 1: Unit 5 exam Lesson 2: Feedback	Lesson 1: 3.6.1 Electricity, magnetism and waves – Outcome 1: Current in a circuit (series circuits) Lesson 2: 3.6.1 Electricity, magnetism and waves – Outcome 1: Current in a circuit (parallel circuits)
Key Words **Level 2** **Level 3**	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, pulse, pulse rate, respiration	Identify, describe, explain Unreactive, ore, recycle	Identify, describe, explain As per Unit 5 key words list from HT1 & HT2	Identify, describe, explain Series, parallel, volts, amps, ammeter, voltmeter, current
Common Misconceptions	Everyones heart rate changes the same during exercise	Metals can't be extracted from rock	Identified from assessment	Ammeters and voltmeters not set up correctly
Homework	Exercise and heart rate homework		Complete feedback tasks	
Assessment this half-term	Food tests **TDA** Separation methods **TDA** Chromatography **TDA** Exercise and fitness **TDA**		Reaction times **TDA** Materials as conductors **TDA** Unit 5 exam	
Career opportunities Employment Links	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Fitness instructor	LIFE SKILLS: Understand how metals are extracted EMPLOYMENT: Process worker	LIFE SKILLS: Reviewing and evaluating work EMPLOYMENT: Project manager	LIFE SKILLS: Understanding how circuits work EMPLOYMENT: Electrician
Employability Skills	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
IT Skills	IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework	
	CLP	CRE	CLP	KMF
Week 13 (w/b 5th Dec)	Lesson 1: 3.1.2 How the body works – Outcome 4: Diabetes Lesson 2: 3.1.3 How the body fights disease - Outcome 5: Pathogens (bacteria and virus)	Lesson 1: 3.3.4 Metals and alloys – Outcome 7: Recycling metals Lesson 2: 3.3.4 Metals and alloys – Outcome 7: Social, economic and environmental impacts	Lesson 1: 3.6.4 Electricity, magnetism and waves – Outcome 7: Longitudinal and transverse waves Lesson 2: 3.6.4 Electricity, magnetism and waves – Outcome 7: Longitudinal and transverse waves	Lesson 1: 3.6.1 Electricity, magnetism and waves – Outcome 1: Current in a circuit – **TDA**: materials as conductors Lesson 2: 3.6.1 Electricity, magnetism and waves – Outcome 1: Current in a circuit – **TDA**: materials as conductors
Key Words **Level 2** **Level 3**	Identify, describe, explain Insulin, diabetes, bacteria, pathogen, toxin, virus, antibody	Identify, describe, explain Unreactive, ore, recycle	Identify, describe, explain Longitudinal, transverse, amplitude, frequency, wavelength	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, series, parallel, volts, amps, ammeter, voltmeter, current
Common Misconceptions	Only fat people have diabetes	All metals can be recycled	All waves behave the same	All metals conduct electricity equally well
Homework		Alloys homework		Conductors homework
Assessment this half-term	Food tests **TDA** Separation methods **TDA** Chromatography **TDA** Exercise and fitness **TDA**		Reaction times **TDA** Materials as conductors **TDA** Unit 5 exam	
Career opportunities Employment Links	LIFE SKILLS: Understand how pathogens make us ill EMPLOYMENT: Health care worker	LIFE SKILLS: Understand how metals are extracted EMPLOYMENT: Process worker	LIFE SKILLS: Understanding how sound travels EMPLOYMENT: Sound engineer	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Electrician

Employability Skills	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
IT Skills		IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework
	CLP	CRE	CLP	KMF
Week 14 (w/b 12th Dec)	Lesson 1: 3.1.3 How the body fights disease - Outcome 5: How pathogens make us feel ill Lesson 2: 3.1.3 How the body fights disease - Outcome 6: White blood cells	Lesson 1: 3.3.4 Metals and alloys – Outcome 8: Giant structure of metals Lesson 2: 3.3.4 Metals and alloys – Outcome 8: Metals as conductors practical	Lesson 1: 3.6.4 Electricity, magnetism and waves – Outcome 8: Wave properties Lesson 2: 3.6.4 Electricity, magnetism and waves – Outcome 8: Wave properties	Lesson 1: 3.6.1 Electricity, magnetism and waves – Outcome 1: Current in a circuit – **TDA**: materials as conductors Lesson 2: 3.6.1 Electricity, magnetism and waves – Outcome 1: Current in a circuit – **TDA**: materials as conductors
Key Words **Level 2** **Level 3**	Identify, describe, explain Bacteria, pathogen, toxin, virus, antibody	Identify, describe, explain Alloy, aluminium, copper, corrosion, low density	Identify, describe, explain Longitudinal, transverse, amplitude, frequency, wavelength	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis, series, parallel, volts, amps, ammeter, voltmeter, current
Common Misconceptions	All bacteria are bad	All metals are solids at room temperature	All waves can travel through any medium	All non-metals are poor conductors
Homework	Diseases homework		Waves homework	
Assessment this half-term	Food tests **TDA** Separation methods **TDA** Chromatography **TDA** Exercise and fitness **TDA**		Reaction times **TDA** Materials as conductors **TDA** Unit 5 exam	
Career opportunities Employment Links	LIFE SKILLS: Understand how pathogens make us ill EMPLOYMENT: Health care worker	LIFE SKILLS: Understand how metals can be made stronger EMPLOYMENT: Mechanic	LIFE SKILLS: Understanding how sound travels EMPLOYMENT: Sound engineer	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Electrician
Employability Skills	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
IT Skills	IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework	
	CLP	CRE	CLP	KMF
Week 15 (w/b 19th Dec) End of term Wednesday 20th December	Lesson 1: 3.1.3 How the body fights disease - Outcome 6: Vaccination Lesson 2: 3.1.3 How the body fights disease - Outcome 7: Testing drugs	Lesson 1: **Project – recycling metals** Lesson 2: **Project – recycling metals**	Lesson 1: X Lesson 2: X	Lesson 1: 3.6.1 Electricity, magnetism and waves – Outcome 2: d.c and a.c current Lesson 2: X
Key Words **Level 2** **Level 3**	Identify, describe, explain Antibody, ingest, vaccination, white blood cell	Identify, describe, explain Unreactive, ore, recycle, economy, environment		Identify, describe, explain Alternating current, direct current, voltage, amps, electricity
Common Misconceptions	Vaccinations are quick to develop	All metals can be recycled		a.c and d.c are the same
Homework		Recycling project		Electricity in the home hiomework
Assessment this half-term	Food tests **TDA** Separation methods **TDA** Chromatography **TDA** Exercise and fitness **TDA**		Reaction times **TDA** Materials as conductors **TDA** Unit 5 exam	
Career opportunities Employment Links	LIFE SKILLS: Understand how vaccinations work EMPLOYMENT: Health care worker	LIFE SKILLS: Understand how metals are extracted EMPLOYMENT: Process worker		LIFE SKILLS: Understanding current in the home EMPLOYMENT: Electrician
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening	Aiming high Literacy Creativity Numeracy Leadership Independence Listening		Aiming high Literacy Creativity Numeracy Leadership Independence Listening

	Communication Presenting Teamwork Problem solving Staying positive	Communication Presenting Teamwork Problem solving Staying positive		Communication Presenting Teamwork Problem solving Staying positive
IT Skills		IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework

	Year 12		Year 13	
	CLP	CRE	CLP	KMF
Week 16 (w/b Wed 4th Jan)	Lesson 1: 3.1.3 How the body fights disease - Outcome 7: Antibiotics Lesson 2: 3.1.4 How the body is coordinated – Outcome 8: The nervous system	Lesson 1: X Lesson 2: 3.3.4 Metals and alloys – Outcome 8: Uses of aluminium	Lesson 1: 3.6.4 Electricity, magnetism and waves – Outcome 8: Wave properties Lesson 2: 3.6.4 Electricity, magnetism and waves – Outcome 8: Wave properties	Lesson 1: X Lesson 2: X
Key Words **Level 2** **Level 3**	Identify, describe, explain Action, automatic, coordinated, glands, hormones, reflex action, secreted, target organ	Identify, describe, explain Alloy, aluminium, copper, corrosion, low density	Identify, describe, explain Longitudinal, transverse, amplitude, frequency, wavelength	
Common Misconceptions	That antibiotics can be used on any illness	That aluminium is only used for foil	All waves can travel through any medium	
Homework	History of antibiotics homework		Waves homework	
Assessment this half-term	Component 1 exam Component 3 exam		Electromagnets **TDA** Range of Bluetooth **TDA**	
Career opportunities Employment Links	LIFE SKILLS: Understand how reflexes work EMPLOYMENT: Police officer	LIFE SKILLS: Understand how metals can be made stronger EMPLOYMENT: Mechanic	LIFE SKILLS: Understanding how sound travels EMPLOYMENT: Sound engineer	
Employability Skills	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	
IT Skills	IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework	
	CLP	CRE	CLP	KMF
Week 17 (w/b 9th Jan)	Lesson 1: 3.1.4 How the body is coordinated – Outcome 8: Reflex actions Lesson 2: 3.1.4 How the body is coordinated – Outcome 8: Reflex actions – ruler drop test	Lesson 1: 3.3.4 Metals and alloys – Outcome 9: Uses of alloys Lesson 2: 3.3.4 Metals and alloys – Outcome 8: Uses of steels	Lesson 1: 3.6.5 Electricity, magnetism and waves – Outcome 9: Electromagnetic spectrum Lesson 2: 3.6.5 Electricity, magnetism and waves – Outcome 9: Electromagnetic spectrum	Lesson 1: 3.6.2 Electricity, magnetism and waves – Outcome 3: Wiring a plug Lesson 2: 3.6.2 Electricity, magnetism and waves – Outcome 3: Wiring a plug
Key Words **Level 2** **Level 3**	Identify, describe, explain Action, automatic, coordinated, glands, hormones, reflex action, secreted, target organ	Identify, describe, explain Alloy, aluminium, copper, corrosion, low density	Identify, describe, explain Radiowave, microwave, infrared, visible, ultraviolet, x-ray, gamma, electromagnetic spectrum	Identify, describe, explain Earth wire, neutral wire, live wire, fuse, current, circuit
Common Misconceptions	Everyone has the same reaction time	Alloys are pure metals	How colour forms visible light	All plugs around the world are the same
Homework		Uses of metals and alloys homework		Plugs homework
Assessment this half-term	Component 1 exam Component 3 exam		Electromagnets **TDA** Range of Bluetooth **TDA**	
Career opportunities Employment Links	LIFE SKILLS: Understand how reflexes work EMPLOYMENT: Police officer	LIFE SKILLS: Understand how metals can be made stronger EMPLOYMENT: Mechanic	LIFE SKILLS: Understanding the risks of x-rays and gamma rays EMPLOYMENT: Health physicist	LIFE SKILLS: How to wire a plug EMPLOYMENT: Electrician
Employability Skills	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
IT Skills		IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework
	CLP	CRE	CLP	KMF
Week 18 (w/b 16th Jan)	Lesson 1: 3.1.4 How the body is coordinated – Outcome 9: Hormones	Lesson 1: 3.3.5 Polymers – Outcome 10: Making and naming polymers	Lesson 1: **EM spectrum project** Lesson 2: **EM spectrum project**	Lesson 1: 3.6.2 Electricity, magnetism and waves – Outcome 4: Energy transfer in electrical appliances

	Lesson 2: 3.1.4 How the body is coordinated – Outcome 9: Menstrual cycle	Lesson 2: 3.3.5 Polymers – Outcome 10: Properties of polymers		Lesson 2: 3.6.2 Electricity, magnetism and waves – Outcome 4: Energy transfer in electrical appliances
Key Words **Level 2** **Level 3**	Identify, describe, explain Egg, glands, hormone, menstrual cycle, secreted	Identify, describe, explain Biodegradable, incineration, landfill, microorganism, moulded, polythene, recycling	Identify, describe, explain Radiowave, microwave, infrared, visible, ultraviolet, xray, gamma, electromagnetic spectrum	Identify, describe, explain Efficient
Common Misconceptions	That the menstrual cycle is as long as a period	That all plastics are bad	How colour forms visible light	Efficiency ratings
Homework	Hormones homework		Project research	
Assessment this half-term	Component 1 exam Component 3 exam		Electromagnets **TDA** Range of Bluetooth **TDA**	
Career opportunities Employment Links	LIFE SKILLS: Understand how the menstrual cycle works EMPLOYMENT: Nurse	LIFE SKILLS: Understand human impact of using plastics EMPLOYMENT: Recycling technician	LIFE SKILLS: Understanding the risks of x-rays and gamma rays EMPLOYMENT: Health physicist	LIFE SKILLS: Understanding efficiency ratings EMPLOYMENT: Electrician
Employability Skills	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
IT Skills	IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework	
	CLP	CRE	CLP	KMF
Week 19 (w/b 23rd Jan)	Lesson 1: 3.1.4 How the body is coordinated – Outcome 9: Menstrual cycle Lesson 2: 3.1.4 How the body is coordinated – Outcome 10: Hormones in fertility	Lesson 1: 3.3.5 Polymers – Outcome 10: Waste disposal and biodegradability Lesson 2: Component 3 revision – Outcomes 1-3	Lesson 1: 3.6.5 Electricity, magnetism and waves – Outcome 10: Use of the EM spectrum Lesson 2: 3.6.5 Electricity, magnetism and waves – Outcome 10: Use of the EM spectrum	Lesson 1: 3.6.3 Electricity, magnetism and waves – Outcome 5: Magnets - poles Lesson 2: 3.6.3 Electricity, magnetism and waves – Outcome 5: Magnets – magnetic fields
Key Words **Level 2** **Level 3**	Identify, describe, explain Egg, glands, hormone, menstrual cycle, secreted	Identify, describe, explain Biodegradable, incineration, landfill, microorganism, moulded, polythene, recycling	Identify, describe, explain Radiowave, microwave, infrared, visible, ultraviolet, xray, gamma, electromagnetic spectrum	Identify, describe, explain Magnet, North pole, South pole, field line, polar, attraction, repulsion
Common Misconceptions	That the menstrual cycle is as long as a period	That all waste decomposes	That not all parts of the spectrum are useful	Direction of arrows on field lines
Homework		Revision for unit exam		Magnetic fields homework
Assessment this half-term	Component 1 exam Component 3 exam		Electromagnets **TDA** Range of Bluetooth **TDA**	
Career opportunities Employment Links	LIFE SKILLS: Understand how the menstrual cycle works EMPLOYMENT: Nurse	LIFE SKILLS: Understand human impact of using plastics EMPLOYMENT: Recycling technician	LIFE SKILLS: Understanding the risks of x-rays and gamma rays EMPLOYMENT: Health physicist	LIFE SKILLS: Understanding how electromagnets work EMPLOYMENT: Scrap yard technician
Employability Skills	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
IT Skills		IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework
	CLP	CRE	CLP	KMF
Week 20 (w/b 30th Jan)	Lesson 1: 3.1.4 How the body is coordinated – Outcome 10: Hormones in fertility Lesson 2: 3.1.4 How the body is coordinated – Outcome 10: Evaluating fertility treatments	Lesson 1: Component 3 revision – Outcomes 4-6 Lesson 2: Component 3 revision – Outcomes 7-10	Lesson 1: 3.6.5 Electricity, magnetism and waves – Outcome 10: Use of the EM spectrum Lesson 2: 3.6.5 Electricity, magnetism and waves – Outcome 10: Use of the EM spectrum	Lesson 1: 3.6.3 Electricity, magnetism and waves – Outcome 6: Electromagnets and solenoids – how to change field strength Lesson 2: 3.6.3 Electricity, magnetism and waves – Outcome 6: Electromagnets and solenoids - uses
Key Words **Level 2** **Level 3**	Identify, describe, explain Contraceptive, fertility, inhibit, mature, oral, stimulate	Identify, describe, explain Unit specific keywords directly from HT1, HT2 & HT3.	Identify, describe, explain Radiowave, microwave, infrared, visible, ultraviolet, xray, gamma, electromagnetic spectrum	Identify, describe, explain Magnet, North pole, South pole, field line, polar, attraction, repulsion, solenoid
Common Misconceptions	Everybody is capable of having children	Identified through questioning	That not all parts of the spectrum are useful	Increasing current is the only way to increase the strength of an electromagnet
Homework	Fertility treatments homework			
Assessment this half-term	Component 1 exam Component 3 exam		Electromagnets **TDA** Range of Bluetooth **TDA**	

Career opportunities Employment Links	LIFE SKILLS: Understand how contraceptives work EMPLOYMENT: Sexual health nurse	LIFE SKILLS: Resilience and organisation skills EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding the risks of x-rays and gamma rays EMPLOYMENT: Health physicist	LIFE SKILLS: Understanding how electromagnets work EMPLOYMENT: Scrap yard technician
Employability Skills	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
IT Skills	IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework	
	CLP	CRE	CLP	KMF
Week 21 (w/b 6th Feb)	Lesson 1: Component 1 revision – Outcomes 1-3 Lesson 2: Component 1 revision – Outcomes 4-6	Lesson 1: Component 3 exam Lesson 2: Feedback	Lesson 1: 3.6.5 Electricity, magnetism and waves – Outcome 10: Use of the EM spectrum – **TDA**: Range of Bluetooth Lesson 2: 3.6.5 Electricity, magnetism and waves – Outcome 10: Use of the EM spectrum – **TDA**: Range of Bluetooth	Lesson 1: 3.6.3 Electricity, magnetism and waves – Outcome 6: Electromagnets and solenoids – **TDA**: Strength of electromagnets Lesson 2: 3.6.3 Electricity, magnetism and waves – Outcome 6: Electromagnets and solenoids – **TDA**: Strength of electromagnets
Key Words Level 2 Level 3	Identify, describe, explain Unit specific keywords directly from HT1, HT2 & HT3.	Identify, describe, explain Unit specific keywords directly from HT1, HT2 & HT3.	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, range, effectiveness	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, electromagnet
Common Misconceptions	Identified through questioning	Identified from exam	Identified through **TDA**	Identified through **TDA**
Homework		Complete feedback		Electromagnets homework
Assessment this half-term	Component 1 exam Component 3 exam		Electromagnets **TDA** Range of Bluetooth **TDA**	
Career opportunities Employment Links	LIFE SKILLS: Resilience and organisation skills EMPLOYMENT: Research scientist	LIFE SKILLS: Resilience and organisation skills EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Engineer	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Engineer
Employability Skills	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
IT Skills	IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework	
	CLP	CRE	CLP	KMF
Week 22 (w/b 13th Feb)	Lesson 1: Component 1 revision – Outcomes 7-10 Lesson 2: Component 1 exam	Lesson 1: **Project – Recycling metals and plastics** Lesson 2: **Project – Recycling metals and plastics**	Lesson 1: 3.6.5 Electricity, magnetism and waves – Outcome 10: Use of the EM spectrum – **TDA**: Range of Bluetooth Lesson 2: 3.6.5 Electricity, magnetism and waves – Outcome 10: Use of the EM spectrum – **TDA**: Range of Bluetooth	Lesson 1: 3.6.3 Electricity, magnetism and waves – Outcome 6: Electromagnets and solenoids – **TDA**: Strength of electromagnets Lesson 2: 3.6.3 Electricity, magnetism and waves – Outcome 6: Electromagnets and solenoids – **TDA**: Strength of electromagnets
Key Words Level 2 Level 3	Identify, describe, explain Unit specific keywords directly from HT1, HT2 & HT3.	Identify, describe, explain Biodegradable, incineration, landfill, microorganism, moulded, polythene, recycling	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, range, effectiveness	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, electromagnet
Common Misconceptions	Identified from exam	Identified through questioning	Identified through **TDA**	Identified through **TDA**
Assessment this half-term	Component 1 exam Component 3 exam		Electromagnets **TDA** Range of Bluetooth **TDA**	
Career opportunities Employment Links	LIFE SKILLS: Resilience and organisation skills EMPLOYMENT: Research scientist	LIFE SKILLS: Understand human impact of using plastics EMPLOYMENT: Recycling technician	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Engineer	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Engineer
Employability Skills	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
IT Skills	IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework	

	Year 10		Year 11	
	CLP	CRE	CLP	KMF
Week 23 (w/b 27th Feb)	Lesson 1: Feedback Lesson 2: Feeding relationships – Outcome 1: Producers	Lesson 1: 3.4.1 Reactions of acids – Outcome 1: Acids and metals Lesson 2: 3.4.1 Reactions of acids – Outcome 1: Acids and metals	Lesson 1: 3.1 **TDA** Resub Lesson 2: 3.1 **TDA** Resub	Lesson 1: 3.3 **TDA** Resub Lesson 2: 3.3 **TDA** Resub
Key Words **Level 2** **Level 3**	Identify, describe, explain Algae, carbon dioxide, chlorophyll, organism, photosynthesis, producer, chloroplast	Identify, describe, explain Acid, hydrogen, reaction, salts, sulphuric acid, hydrochloric acid	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, keywords linked to 3.1	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, keywords linked to 3.3
Common Misconceptions	The sun is the producer	That metals always react with acid in the same way	Identified from **TDA**	Identified from **TDA**
Homework	Plants homework		3.1 Revision activity	
Assessment this half-term	Photosynthesis **TDA** Hydrogen production **TDA**		3.1/3.2 Resub **TDA** 3.3/3.4 Resub **TDA** 3.1 Test 3.3 Test	
Career opportunities Employment Links	LIFE SKILLS: Understand how plants use sunlight to make food EMPLOYMENT: Farmer	LIFE SKILLS: Understand how salts are made EMPLOYMENT: Process chemist	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Biologist	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Chemist
Employability Skills	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
IT Skills	IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework	
	CLP	CRE	CLP	KMF
Week 24 (w/b 6th Mar)	Lesson 1: 3.2.1 Feeding relationships – Outcome 1: Photosynthesis Lesson 2: 3.2.1 Feeding relationships – Outcome 1: Factors affecting photosynthesis	Lesson 1: 3.4.1 Reactions of acids – Outcome 1: Acids and metals – word equations Lesson 2: 3.4.1 Reactions of acids – Outcome 1: Collecting and testing hydrogen	Lesson 1: 3.1 **TDA** Resub Lesson 2: 3.1 **TDA** Resub	Lesson 1: 3.3 **TDA** Resub Lesson 2: 3.3 **TDA** Resub
Key Words **Level 2** **Level 3**	Identify, describe, explain Algae, carbon dioxide, chlorophyll, organism, photosynthesis, producer, chloroplast	Identify, describe, explain Acid, hydrogen, reaction, salts, sulphuric acid, hydrochloric acid	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, keywords linked to 3.1	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, keywords linked to 3.3
Common Misconceptions	Only light affects photosynthesis	All acids react with metals in the same way	Identified from **TDA**	Identified from **TDA**
Homework		Word equations homework		3.3 Revision activity
Assessment this half-term	Photosynthesis **TDA** Hydrogen production **TDA**		3.1/3.2 Resub **TDA** 3.3/3.4 Resub **TDA** 3.1 Test 3.3 Test	
Career opportunities Employment Links	LIFE SKILLS: Understand how plants use sunlight to make food EMPLOYMENT: Farmer	LIFE SKILLS: Understand how salts are made EMPLOYMENT: Process chemist	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Biologist	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Chemist
Employability Skills	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
IT Skills		IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework
	CLP	CRE	CLP	KMF
Week 25 (w/b 13th Mar)	Lesson 1: 3.2.1 Feeding relationships – Outcome 1: Factors affecting photosynthesis – **TDA**: Photosynthesis Lesson 2: 3.2.1 Feeding relationships – Outcome 1: Factors affecting photosynthesis – **TDA**: Photosynthesis	Lesson 1: 3.4.1 Reactions of acids – Outcome 1: Collecting and testing hydrogen – **TDA**: Hydrogen production Lesson 2: 3.4.1 Reactions of acids – Outcome 1: Collecting and testing hydrogen – **TDA**: Hydrogen production	Lesson 1: 3.1 Review Lesson 2: 3.1 Test	Lesson 1: 3.3 Review Lesson 2: 3.3 Test

Key Words **Level 2** **Level 3**	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, algae, carbon dioxide, chlorophyll, organism, photosynthesis, producer, chloroplast	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, acid, hydrogen, reaction, salts, sulphuric acid, hydrochloric acid	Identify, describe, explain Keywords linked to 3.1	Identify, describe, explain Keywords linked to 3.3
Common Misconceptions	Only light affects photosynthesis	All acids react with metals in the same way	Identified from assessment	Identified from assessment
Homework	Leaf homework			
Assessment this half-term	Photosynthesis **TDA** Hydrogen production **TDA**		3.1/3.2 Resub **TDA** 3.3/3.4 Resub **TDA** 3.1 Test 3.3 Test	
Career opportunities Employment Links	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Florist	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Process chemist	LIFE SKILLS: Resilience and organisational skills EMPLOYMENT: Biologist	LIFE SKILLS: Resilience and organisational skills EMPLOYMENT: Chemist
Employability Skills	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
IT Skills	IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework	
	CLP	CRE	CLP	KMF
Week 26 **(w/b 20th Mar)**	Lesson 1: 3.2.1 Feeding relationships – Outcome 1: Factors affecting photosynthesis – **TDA**: Photosynthesis Lesson 2: 3.2.1 Feeding relationships – Outcome 1: Factors affecting photosynthesis – **TDA**: Photosynthesis	Lesson 1: 3.4.1 Reactions of acids – Outcome 1: Collecting and testing hydrogen – **TDA**: Hydrogen production Lesson 2: 3.4.1 Reactions of acids – Outcome 1: Collecting and testing hydrogen – **TDA**: Hydrogen production	Lesson 1: 3.2 **TDA** Resub Lesson 2: 3.2 **TDA** Resub	Lesson 1: 3.4 **TDA** Resub Lesson 2: 3.4 **TDA** Resub
Key Words **Level 2** **Level 3**	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, algae, carbon dioxide, chlorophyll, organism, photosynthesis, producer, chloroplast	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, acid, hydrogen, reaction, salts, sulphuric acid, hydrochloric acid	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, keywords linked to 3.2	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, keywords linked to 3.4
Common Misconceptions	Only light affects photosynthesis	All acids react with metals in the same way	Identified from **TDA**	Identified from **TDA**
Homework		Practical equipment homework		3.4 Revision activity
Assessment this half-term	Photosynthesis **TDA** Hydrogen production **TDA**		3.1/3.2 Resub **TDA** 3.3/3.4 Resub **TDA** 3.1 Test 3.3 Test	
Career opportunities Employment Links	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Florist	LIFE SKILLS: : Understanding how to evaluate work and make improvements EMPLOYMENT: Process chemist	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Biologist	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Chemist
Employability Skills	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
IT Skills		IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework
	CLP	CRE	CLP	KMF
Week 27 **(w/b 27th Mar)**	Lesson 1: 3.2.1 Feeding relationships – Outcome 2: Animal adaptations Lesson 2: 3.2.1 Feeding relationships – Outcome 2: Plant adaptations	Lesson 1: 3.4.1 Reactions of acids – Outcome 2: Neutralisation Lesson 2: 3.4.1 Reactions of acids – Outcome 2: Neutralisation	Lesson 1: 3.2 **TDA** Resub Lesson 2: 3.2 **TDA** Resub	Lesson 1: 3.4 **TDA** Resub Lesson 2: 3.4 **TDA** Resub
Key Words **Level 2** **Level 3**	Identify, describe, explain Adaptation, behavioural, structural, functional, extremophile	Identify, describe, explain Acid, alkali, base, carbon dioxide, carbonate, crystallised, limewater, neutralise	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, keywords linked to 3.2	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, keywords linked to 3.4

Common Misconceptions	Only animals adapt	The difference between concentration and volume	Identified from **TDA**	Identified from **TDA**
Homework	Research for adaptations project	[redacted]	3.2 Revision activity	[redacted]
Assessment this half-term	Photosynthesis **TDA** Hydrogen production **TDA**		3.1/3.2 Resub **TDA** 3.3/3.4 Resub **TDA** 3.1 Test 3.3 Test	
Career opportunities Employment Links	LIFE SKILLS: Understanding how different species adapt EMPLOYMENT: Zoologist	LIFE SKILLS: Understand how acids are neutralised EMPLOYMENT: Process chemist	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Biologist	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Chemist
Employability Skills	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
IT Skills	IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework	

	Year 10		Year 11	
	CLP	CRE	CLP	KMF
Week 28 (w/b 17th Apr)	Lesson 1: **Adaptations project** Lesson 2: **Adaptations project**	Lesson 1: 3.4.1 Reactions of acids – Outcome 2: Acids and carbonates equations Lesson 2: 3.4.1 Reactions of acids – Outcome 2: Acids and carbonates - **TDA**: Volume of carbon dioxide produced	Lesson 1: 3.2 Review Lesson 2: 3.2 Test	Lesson 1: 3.4 Review Lesson 2: 3.4 Test
Key Words **Level 2** **Level 3**	Identify, describe, explain Adaptation, behavioural, structural, functional, extremophile, survival	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, acid, alkali, base, carbon dioxide, carbonate, crystallised, limewater, neutralise	Identify, describe, explain Keywords linked to 3.2	Identify, describe, explain Keywords linked to 3.4
Common Misconceptions	All adaptations are to stop predators	That all acids and carbonates react in the same way	Identified from assessment	Identified from assessment
Homework	[redacted]	Acids and carbonates homework	[redacted]	
Assessment this half-term	Volume of carbon dioxide **TDA** Ecology **TDA** Rates of reaction **TDA**		3.5/3.6 **TDA** Resubs 3.2 Test 3.4 Test 3.5/3.6 Test	
Career opportunities Employment Links	LIFE SKILLS: Understand why adaptations happen EMPLOYMENT: Zoologist	LIFE SKILLS: Understand how acids are neutralised EMPLOYMENT: Process chemist	LIFE SKILLS: Resilience and organisational skills EMPLOYMENT: Physicist	LIFE SKILLS: Resilience and organisational skills EMPLOYMENT: Physicist
Employability Skills	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
IT Skills		IT1 & IT2: Using sources for homework		
	CLP	CRE	CLP	KMF
Week 29 (w/b 24th Apr)	Lesson 1: 3.2.1 Feeding relationships – Outcome 2: Choice chambers Lesson 2: 3.2.1 Feeding relationships – Outcome 3: Food chains	Lesson 1: 3.4.1 Reactions of acids – Outcome 2: Acids and carbonates - **TDA**: Volume of carbon dioxide produced Lesson 2: 3.4.1 Reactions of acids – Outcome 2: Acids and carbonates - **TDA**: Volume of carbon dioxide produced	Lesson 1: 3.5 **TDA** Resub Lesson 2: 3.5 **TDA** Resub	Lesson 1: 3.6 **TDA** Resub Lesson 2: 3.6 **TDA** Resub
Key Words **Level 2** **Level 3**	Identify, describe, explain Ecosystem, food chain, food web, producer, consumer	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, acid, alkali, base, carbon dioxide, carbonate, crystallised, limewater, neutralise	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, keywords linked to 3.5	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, keywords linked to 3.6
Common Misconceptions	That the arrows in a food chain show who eats what	That all acids and carbonates react in the same way	Identified from **TDA**	Identified from **TDA**

Homework	Food chains homework		3.5 Revision activity	
Assessment this half-term	Volume of carbon dioxide **TDA** Ecology **TDA** Rates of reaction **TDA**		3.5/3.6 **TDA** Resubs 3.2 Test 3.4 Test 3.5/3.6 Test	
Career opportunities Employment Links	LIFE SKILLS: Understand how energy moves through the food chain EMPLOYMENT: Zoologist	LIFE SKILLS: Understand how acids are neutralised EMPLOYMENT: Process chemist	LIFE SKILLS: Resilience and organisational skills EMPLOYMENT: Physicist	LIFE SKILLS: Resilience and organisational skills EMPLOYMENT: Physicist
Employability Skills	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
IT Skills	IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework	
	CLP	CRE	CLP	KMF
Week 30 (w/b Tues 2nd May)	Lesson 1: 3.2.1 Feeding relationships – Outcome 3: Food webs Lesson 2: 3.2.1 Feeding relationships – Outcome 4: Carbon cycle	Lesson 1: 3.4.1 Reactions of acids – Outcome 2: Acids and carbonates – **TDA**: Volume of carbon dioxide produced Lesson 2: 3.4.2 Reactions of acids – Outcome 3: Energy and rate of reaction	Lesson 1: 3.5 **TDA** Resub Lesson 2: 3.5 **TDA** Resub	Lesson 1: 3.6 **TDA** Resub Lesson 2: 3.6 **TDA** Resub
Key Words **Level 2** **Level 3**	Identify, describe, explain Ecosystem, food chain, food web, producer, consumer	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, acid, alkali, base, carbon dioxide, carbonate, crystallised, limewater, neutralise	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, keywords linked to 3.5	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, keywords linked to 3.6
Common Misconceptions	That the arrows in a food chain show who eats what	That all acids and carbonates react in the same way	Identified from **TDA**	Identified from **TDA**
Homework		Rates of reaction homework		3.6 Revision activity
Assessment this half-term	Volume of carbon dioxide **TDA** Ecology **TDA** Rates of reaction **TDA**		3.5/3.6 **TDA** Resubs 3.2 Test 3.4 Test 3.5/3.6 Test	
Career opportunities Employment Links	LIFE SKILLS: Understand how energy moves through the food chain EMPLOYMENT: Zoologist	LIFE SKILLS: Understanding how to change reaction speeds EMPLOYMENT: Analytical chemist	LIFE SKILLS: Resilience and organisational skills EMPLOYMENT: Physicist	LIFE SKILLS: Resilience and organisational skills EMPLOYMENT: Physicist
Employability Skills	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
IT Skills		IT1 & IT2: Using sources for homework		IT1 & IT2: Using sources for homework
	CLP	CRE	CLP	KMF
Week 31 (w/b 8th May)	Lesson 1: 3.2.1 Feeding relationships – Outcome 4: Decay Lesson 2: 3.2.2 What determines where a species lives? – Outcome 5: Plant competition	Lesson 1: 3.4.2 Reactions of acids – Outcome 4: Increasing the rate of a chemical reaction Lesson 2: 3.4.2 Reactions of acids – Outcome 4: Increasing the rate of a chemical reaction	Lesson 1: 3.5 Review Lesson 2: 3.5 Test	Lesson 1: 3.6 Review Lesson 2: 3.6 Test
Key Words **Level 2** **Level 3**	Identify, describe, explain Carbon cycle, decay, environment, microorganism, competition, nutrients, plants, territory	Identify, describe, explain Catalyst, concentration, temperature, pressure, kinetic, collision	Identify, describe, explain Keywords linked to 3.5	Identify, describe, explain Keywords linked to 3.6
Common Misconceptions	That plants don't compete for things	That temperature is the only way to speed up a reaction	Identified in test	Identified in test
Homework	Competition homework			
Assessment this half-term	Volume of carbon dioxide **TDA** Ecology **TDA** Rates of reaction **TDA**		3.5/3.6 **TDA** Resubs 3.2 Test 3.4 Test 3.5/3.6 Test	
Career opportunities	LIFE SKILLS: Understand what organisms compete for	LIFE SKILLS: Understanding how to change reaction speeds	LIFE SKILLS: Resilience and organisational skills	LIFE SKILLS: Resilience and organisational skills

Employment Links	EMPLOYMENT: Horticulture, forestry	EMPLOYMENT: Analytical chemist	EMPLOYMENT: Physicist	EMPLOYMENT: Physicist
Employability Skills	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
IT Skills	IT1 & IT2: Using sources for homework			
	CLP	CRE	CLP	KMF
Week 32 (w/b 15th May)	Lesson 1: 3.2.2 What determines where a species lives? – Outcome 5: Animal competition Lesson 2: 3.2.2 What determines where a species lives? – Outcome 6: Biotic and abiotic conditions	Lesson 1: 3.4.2 Reactions of acids – Outcome 4: Increasing the rate of a chemical reaction – **TDA**: Investigating rates of reaction Lesson 2: 3.4.2 Reactions of acids – Outcome 4: Increasing the rate of a chemical reaction – **TDA**: Investigating rates of reaction	Lesson 1: Practical skills review Lesson 2: Practical skills review	Lesson 1: Practical skills review Lesson 2: Practical skills review
Key Words **Level 2** **Level 3**	Identify, describe, explain Environment, microorganism, competition, nutrients, plants, territory	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, catalyst, concentration, temperature, pressure, kinetic, collision	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis
Common Misconceptions	That animals always kill each other for territory	That temperature is the only way to speed up a reaction	Students often confuse the variables and label graph axes incorrectly	Students often confuse the variables and label graph axes incorrectly
Homework				
Assessment this half-term	Volume of carbon dioxide **TDA** Ecology **TDA** Rates of reaction **TDA**		3.5/3.6 **TDA** Resubs 3.2 Test 3.4 Test 3.5/3.6 Test	
Career opportunities Employment Links	LIFE SKILLS: Understand what animals compete for EMPLOYMENT: Zoologist	LIFE SKILLS: Evaluating and developing methods EMPLOYMENT: Project manager	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding how to evaluate work and make improvements EMPLOYMENT: Research scientist
Employability Skills	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
IT Skills		IT1 & IT2: Using sources for homework		
	CLP	CRE	CLP	KMF
Week 33 (w/b 22nd May)	Lesson 1: 3.2.2 What determines where a species lives? – Outcome 6: Biotic and abiotic conditions – **TDA**: Ecology Lesson 2: 3.2.2 What determines where a species lives? – Outcome 6: Biotic and abiotic conditions – **TDA**: Ecology	Lesson 1: 3.4.2 Reactions of acids – Outcome 4: Increasing the rate of a chemical reaction – **TDA**: Investigating rates of reaction Lesson 2: 3.4.2 Reactions of acids – Outcome 4: Increasing the rate of a chemical reaction – **TDA**: Investigating rates of reaction	Lesson 1: Practical skills review Lesson 2: Practical skills review	Lesson 1: Practical skills review Lesson 2: Practical skills review
Key Words **Level 2** **Level 3**	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, environment, microorganism, competition, nutrients, plants, territory	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, catalyst, concentration, temperature, pressure, kinetic, collision	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis	Identify, describe, explain Independent variable, dependent variable, control variable, valid experiment, hypothesis
Common Misconceptions	That animals always kill each other for territory	That temperature is the only way to speed up a reaction	Students often confuse the variables and label graph axes incorrectly	Students often confuse the variables and label graph axes incorrectly
Homework	Ecosystems homework			
Assessment this half-term	Volume of carbon dioxide **TDA** Ecology **TDA** Rates of reaction **TDA**		3.5/3.6 **TDA** Resubs 3.2 Test 3.4 Test 3.5/3.6 Test	
Career opportunities Employment Links	LIFE SKILLS: Understand what animals compete for EMPLOYMENT: Zoologist	LIFE SKILLS: Evaluating and developing methods EMPLOYMENT: Project manager	LIFE SKILLS: Understanding how to evaluate work and make improvements	LIFE SKILLS: Understanding how to evaluate work and make improvements

			EMPLOYMENT: Research scientist	EMPLOYMENT: Research scientist
Employability Skills	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
IT Skills	IT1 & IT2: Using sources for homework			

	Year 10		Year 11	
	CLP	CRE	CLP	KMF
Week 34 (w/b 5th Jun)	Lesson 1: 3.2.2 What determines where a species lives? – Outcome 6: Biotic and abiotic conditions – TDA: Ecology Lesson 2: 3.2.2 What determines where a species lives? – Outcome 6: Biotic and abiotic conditions – TDA: Ecology	Lesson 1: 3.4.3 Earths atmosphere – Outcome 5: Early atmosphere Lesson 2: 3.4.3 Earths atmosphere – Outcome 5: Early oxygen	[redacted]	
Key Words Level 2 Level 3	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, environment, microorganism, competition, nutrients, plants, territory	Identify, describe, explain Atmosphere, billion, photosynthesis		
Common Misconceptions	That animals always kill each other for territory	That the atmosphere has always been like it is at present		
Homework	Pollution homework	[redacted]		
Assessment this half-term	Comparing rainwater TDA			
Career opportunities Employment Links	LIFE SKILLS: Understand what animals compete for EMPLOYMENT: Zoologist	LIFE SKILLS: Understand how the atmosphere came to be EMPLOYMENT: Meteorologist		
Employability Skills	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		
IT Skills	IT1 & IT2: Using sources for homework			
	CLP	CRE	CLP	KMF
Week 35 (w/b 12th Jun)	Lesson 1: 3.2.2 What determines where a species lives? – Outcome 7: Pollution Lesson 2: 3.2.2 What determines where a species lives? – Outcome 7: TDA: Comparing rainwater	Lesson 1: 3.4.3 Earths atmosphere – Outcome 6: Removal of carbon dioxide Lesson 2: 3.4.3 Earths atmosphere – Outcome 6: Modern atmosphere		
Key Words Level 2 Level 3	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, acid rain, deforestation, environment, herbicide, landfill, pesticide, pollution, sewage, toxic	Identify, describe, explain Carbonates, fossil fuels, fossil fuel		
Common Misconceptions	That water is the same where ever it is found in the country	That only plants remove carbon dioxide from the atmosphere		
Homework	[redacted]	Atmosphere homework		
Assessment this half-term	Comparing rainwater TDA			
Career opportunities Employment Links	LIFE SKILLS: Understand human impact on the environment EMPLOYMENT: Ecologist, DEFRA, EA	LIFE SKILLS: Understand how the atmosphere came to be EMPLOYMENT: Meteorologist		

Employability Skills	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		
IT Skills		IT1 & IT2: Using sources for homework		
	CLP	CRE	CLP	KMF
Week 36 (w/b 19th Jun)	Lesson 1: 3.2.2 What determines where a species lives? – Outcome 7: TDA: Comparing rainwater Lesson 2: 3.2.2 What determines where a species lives? – Outcome 7: TDA: Comparing rainwater	Lesson 1: Fuels and human impacts on the atmosphere – Outcome 7: Crude oil Lesson 2: 3.4.4 Fuels and human impacts on the atmosphere – Outcome 7: Fractional distillation		
Key Words Level 2 Level 3	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, acid rain, deforestation, environment, herbicide, landfill, pesticide, pollution, sewage, toxic	Identify, describe, explain Compound, crude oil, distillation, fuel, fraction, mixture, oil refinery, oilfield		
Common Misconceptions	That water is the same where ever it is found in the country	That all crude oil is the same		
Homework	Darwin research homework			
Assessment this half-term	Comparing rainwater TDA			
Career opportunities Employment Links	LIFE SKILLS: Understand human impact on the environment EMPLOYMENT: Ecologist, DEFRA, EA	LIFE SKILLS: Understand where oil comes from EMPLOYMENT: Oil rig worker		
Employability Skills	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		
IT Skills	IT1 & IT2: Using sources for homework			
	CLP	CRE	CLP	KMF
Week 37 (w/b 26th Jun)	Lesson 1: 3.2.2 What determines where a species lives? – Outcome 7: TDA: Comparing rainwater Lesson 2: 3.2.3 How life has developed on Earth – Outcome 8: Darwins theory	Lesson 1: 3.4.4 Fuels and human impacts on the atmosphere – Outcome 7: Products of fractional distillation Lesson 2: 3.4.4 Fuels and human impacts on the atmosphere – Outcome 8: Complete combustion		
Key Words Level 2 Level 3	Identify, describe, explain Independent variable, dependent variable, control variable, hypothesis, valid, acid rain, deforestation, environment, herbicide, landfill, pesticide, pollution, sewage, toxic	Identify, describe, explain Compound, crude oil, distillation, fuel, fraction, mixture, oil refinery, oilfield		
Common Misconceptions	That water is the same where ever it is found in the country	That all crude oil is the same		
Homework		Fractional distillation homework		
Assessment this half-term	Comparing rainwater TDA			
Career opportunities Employment Links	LIFE SKILLS: Understand human impact on the environment EMPLOYMENT: Ecologist, DEFRA, EA	LIFE SKILLS: Understand where oil comes from EMPLOYMENT: Oil rig worker		
Employability Skills	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		

IT Skills		IT1 & IT2: Using sources for homework		
	CLP	CRE	CLP	KMF
Week 38 (w/b 3rd July)	Work experience	Work experience		
Key Words Level 2 Level 3				
Common Misconceptions				
Homework				
Assessment this half-term				
Career opportunities Employment Links				
Employability Skills				
IT Skills				
Notes/developments /standardisation comments				
	CLP	CRE	CLP	KMF
Week 39 (w/b 10th July)	Lesson 1: 3.2.3 How life has developed on Earth – Outcome 8: Natural selection Lesson 2: 3.2.3 How life has developed on Earth – Outcome 8: Artificial selection (selective breeding)	Lesson 1: 3.4.4 Fuels and human impacts on the atmosphere – Outcome 8: Incomplete combustion Lesson 2: 3.4.4 Fuels and human impacts on the atmosphere – Outcome 8: Environmental impact of burning fossil fuel		
Key Words Level 2 Level 3	Identify, describe, explain Evolution, extinct, fossil, selective breeding, theory, asexual reproduction, characteristics, clone, cutting, gene, offspring, sexual reproduction, variety	Identify, describe, explain Burning, carbon monoxide, fossil fuels, global warming, greenhouse gases, soot		
Common Misconceptions	That asexual reproduction is 'doing it with themselves'	That all things burn the same		
Homework	Selective breeding homework			
Assessment this half-term	Comparing rainwater TDA			
Career opportunities Employment Links	LIFE SKILLS: Understand how characteristics are inherited EMPLOYMENT: Farming	LIFE SKILLS: Understand how humans impact the atmosphere EMPLOYMENT: Environmental scientist		
Employability Skills	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		
IT Skills	IT1 & IT2: Using sources for homework			
	CLP	CRE	CLP	KMF
Week 40 (w/b 17th July)	Lesson 1: 3.2.3 How life has developed on Earth – Outcome 9: Sexual reproduction Lesson 2: 3.2.3 How life has developed on Earth – Outcome 9: Asexual reproduction	Lesson 1: X Lesson 2: X		
Key Words Level 2	Identify, describe, explain			

Level 3	Asexual reproduction, characteristics, clone, cutting, gene, offspring, sexual reproduction, variety
Common Misconceptions	That asexual reproduction is 'doing it with themselves'
Homework	
Assessment this half-term	Comparing rainwater TDA
Career opportunities Employment Links	LIFE SKILLS: Understand how characteristics are inherited EMPLOYMENT: Farming
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive