

Autumn 1	Year 9					
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (SMS)	X4 (AEC)
Week 1 (w/b Wed 7 th Sep)	Lesson 1: 1.1.1 – Intro to forces, what are forces, what do forces do?	Lesson 1: Acids and Alkalis Project Lesson 1 – Hypothesis and Demo	Lesson 1: 9.4.1 Photosynthesis	Lesson 1: Acids and Alkalis Project Lesson 1 – Hypothesis and Demo Lesson 2: Acids and Alkalis Project Lesson 2 – Planning and Writing a method Lesson 3: Acids and Alkalis Project Lesson 3 – Results table	Lesson 1: 1.1.1 – Intro to forces, what are forces, what do forces do? Lesson 2: 1.1.1 – Intro to forces, Force diagrams, force arrows	Lesson 1: Acids and Alkalis Project Lesson 1 – Hypothesis and Demo
Key Words Level 2 Level 3	Identify, control, explain, compare Force, balanced, unbalanced, contact, non-contact, newton	Hypothesis, Variable – independent, dependent, control, valid/validity, conclusion, evaluation, reliability, repeatability Acid/acidic, alkali, , hydroxide, ion, base, neutralisation, indicator, phenolphthalein, pH	Identify, control, explain, compare Photosynthesis, chloroplast, chlorophyll, limiting factor, palisade cell, stomata	Hypothesis, Variable – independent, dependent, control, valid/validity, conclusion, evaluation, reliability, repeatability Acid/acidic, alkali, , hydroxide, ion, base, neutralisation, indicator, phenolphthalein, pH	Identify, control, explain, compare Force, balanced, unbalanced, contact, non-contact, newton	Hypothesis, Variable – independent, dependent, control, valid/validity, conclusion, evaluation, reliability, repeatability Acid/acidic, alkali, , hydroxide, ion, base, neutralisation, indicator, phenolphthalein, pH
Common Misconceptions	Objects which have a constant/steady speed don't have balanced forces acting upon them.	Pupils tend to be unclear about which variable is which	That plants only photosynthesize (respiration is 24hrs) The hotter it is the more photosynthesis is done (stomata close and xerophytic adaptations in extreme conditions)	Pupils tend to be unclear about which variable is which	Objects which have a constant/steady speed don't have balanced forces acting upon them.	Pupils tend to be unclear about which variable is which
Homework	Activelearn task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Activelearn task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	1a Forces Test	W/b 17 th Oct - Working Scientifically Project		W/b 17 th Oct - Working Scientifically Project W/b 17 th Oct - 1a Forces Test	1a Forces Test	W/b 17 th Oct - Working Scientifically Project
Career opportunities Employment Links	LIFE SKILLS: Understanding how different forces are used in everyday activities EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/background-artist	LIFE SKILLS: Understanding how household acids and alkalis can be neutralised EMPLOYMENT: Analytical chemist	LIFE SKILLS: Understanding the conditions needed for plants to grow EMPLOYMENT: Framing, horticulture, agriculture, botany	LIFE SKILLS: Understanding how household acids and alkalis can be neutralised EMPLOYMENT: Analytical chemist	LIFE SKILLS: Understanding how different forces are used in everyday activities EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/background-artist	LIFE SKILLS: Understanding how household acids and alkalis can be neutralised EMPLOYMENT: Analytical chemist
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework	IT1 & IT2: Using google for research and cameras to photograph practical work for final reports	IT2: Kerboodle homework	IT1 & IT2: Using google for research and cameras to photograph practical work for final reports	IT2: Kerboodle homework	IT1 & IT2: Using google for research and cameras to photograph practical work for final reports
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (SMS)	X4 (AEC)
Week 2 (w/b 12 th Sep)	Lesson 1: 1.1.1 – Intro to forces, Force diagrams, force arrows	Lesson 1: Acids and Alkalis Project Lesson 2 – Planning and Writing a method	Lesson 1: 9.4.1 Photosynthesis (starch testing leaves)	Lesson 1: Acids and Alkalis Project Lesson 4 – Perform experiment Lesson 2: Acids and Alkalis Project Lesson 5 – Perform experiment Lesson 3: Acids and Alkalis Project Lesson 6 – Calculate means, Graph	Lesson 1: 1.1.1 – Intro to forces, Contact and Non-contact forces Lesson 2: 1.1.2 – Balanced and Unbalanced forces	Lesson 1: Acids and Alkalis Project Lesson 2 – Planning and Writing a method

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Week 3 (w/b 19th Sep)	Lesson 1: 1.1.1 – Intro to forces, Contact and Non-contact forces	Lesson 1: Acids and Alkalis Project Lesson 3 – Results table	Lesson 1: 9.4.2 Stomata (nail varnish underside leaf practical)	Lesson 1: Acids and Alkalis Project Conclusion, Evaluation Lesson 2: Buffer lessons – in event of missing lessons during week 1 Lesson 3: Buffer lessons – in event of missing lessons during week 1	Lesson 1: 1.1.2 – Balanced and Unbalanced forces Lesson 2: 1.1.3 – Speed	Lesson 1: Acids and Alkalis Project Lesson 3 – Results table
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Assessment this half-term	1a Forces Test	W/b 17 th Oct - Working Scientifically Project		W/b 17 th Oct - Working Scientifically Project W/b 17 th Oct - 1a Forces Test	1a Forces Test	W/b 17 th Oct - Working Scientifically Project
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Week 4 (w/b 26th Sep)	Lesson 1: 1.1.2 – Balanced and Unbalanced forces	Lesson 1: Acids and Alkalis Project Lesson 4 – Perform experiment	Lesson 1: 9.4.3 Investigating photosynthesis (full write up)	Lesson 1: 1.1.1 – Intro to forces, what are forces, what do forces do? Lesson 2: 1.1.1 – Intro to forces, Force diagrams, force arrows Lesson 3: 1.1.1 – Intro to forces, Contact and Non-contact forces	Lesson 1: 1.1.4 – Distance-time graphs Lesson 2: 1.1.4 – Distance-time graphs	Lesson 1: Acids and Alkalis Project Lesson 4 – Perform experiment
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Common Misconceptions	Objects which have a constant/steady speed don't have balanced forces acting upon them.	Pupils tend to be unclear about which variable is which	That plants only photosynthesize (respiration is 24hrs) The hotter it is the more photosynthesis is done (stomata close and xerophytic adaptations in extreme conditions)	Objects which have a constant/steady speed don't have balanced forces acting upon them.	Objects which have a constant/steady speed don't have balanced forces acting upon them.	Pupils tend to be unclear about which variable is which
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Assessment this half-term	1a Forces Test	W/b 17 th Oct - Working Scientifically Project		1a Forces Test	1a Forces Test	W/b 17 th Oct - Working Scientifically Project

Career opportunities Employment Links	LIFE SKILLS: Understanding how different forces are used in everyday activities EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/background-artist	LIFE SKILLS: Understanding how household acids and alkalis can be neutralised EMPLOYMENT: Analytical chemist	LIFE SKILLS: Understanding the conditions needed for plants to grow EMPLOYMENT: Framing, horticulture, agriculture, botany	LIFE SKILLS: Understanding how different forces are used in everyday activities EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/background-artist	LIFE SKILLS: Understanding speed and braking distances EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/background-artist	LIFE SKILLS: Understanding how household acids and alkalis can be neutralised EMPLOYMENT: Analytical chemist
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	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (SMS)	X4 (AEC)
Week 5 (w/b 3rd Oct)	Lesson 1: 1.1.3 – Speed	Lesson 1: Acids and Alkalis Project Lesson 5 – Perform experiment	Lesson 1: 9.4.3 Investigating photosynthesis (full write up)	Lesson 1: 1.1.2 – Balanced and Unbalanced forces Lesson 2: 1.1.3 – Speed Lesson 3: 1.1.4 – Distance-time graphs	Lesson 1: 1.2.1 – Gravity, compare and distinguish mass and weight, use $W = mg$ Lesson 2: 1.2.1 – Gravity, calculating gravity on different planets	Lesson 1: Acids and Alkalis Project Lesson 5 – Perform experiment
Key Words Level 2 Level 3	Identify, control, explain, compare Force, balanced, unbalanced, contact, non-contact, newton, speed, displacement, acceleration	Hypothesis, Variable – independent, dependent, control, valid/validity, conclusion, evaluation, reliability, repeatability Acid/acidic, alkali, , hydroxide, ion, base, neutralisation, indicator, phenolphthalein, pH	Hypothesis, Variable – independent, dependent, control, valid/validity, conclusion, evaluation, reliability, repeatability Photosynthesis, chloroplast, chlorophyll, limiting factor, palisade cell, stomata	Identify, control, explain, compare Force, balanced, unbalanced, contact, non-contact, newton, speed, displacement, acceleration	Identify, control, explain, compare Force, balanced, unbalanced, contact, non-contact, newton, speed, displacement, acceleration, gravity, mass, weight	Hypothesis, Variable – independent, dependent, control, valid/validity, conclusion, evaluation, reliability, repeatability Acid/acidic, alkali, , hydroxide, ion, base, neutralisation, indicator, phenolphthalein, pH
Common Misconceptions	Ensure pupils set calculations out correctly (State equation, state calculation, state answer with unit). Objects which have a constant/steady speed don't have balanced forces acting upon them.	Pupils tend to be unclear about which variable is which	That plants only photosynthesize (respiration is 24hrs) The hotter it is the more photosynthesis is done (stomata close and xerophytic adaptations in extreme conditions)	Objects which have a constant/steady speed don't have balanced forces acting upon them.	Ensure pupils set calculations out correctly (State equation, state calculation, state answer with unit). Objects which have a constant/steady speed don't have balanced forces acting upon them.	Pupils tend to be unclear about which variable is which
Homework	Activelearn task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Activelearn task suitable to ability of group.	Activelearn task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	1a Forces Test	W/b 17 th Oct - Working Scientifically Project		1a Forces Test	1a Forces Test	W/b 17 th Oct - Working Scientifically Project
Career opportunities Employment Links	LIFE SKILLS: Understanding speed and braking distances EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/background-artist	LIFE SKILLS: Understanding how household acids and alkalis can be neutralised EMPLOYMENT: Analytical chemist	LIFE SKILLS: Understanding the conditions needed for plants to grow EMPLOYMENT: Framing, horticulture, agriculture, botany	LIFE SKILLS: Understanding speed and braking distances EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/background-artist	LIFE SKILLS: Understanding the difference between mass and weight EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/background-artist	LIFE SKILLS: Understanding how household acids and alkalis can be neutralised EMPLOYMENT: Analytical chemist

Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork
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	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (SMS)	X4 (AEC)		
Week 6 (w/b 10th Oct)	Lesson 1: 1.1.4 – Distance-time graphs	Lesson 1: Acids and Alkalis Project Lesson 6 – Calculate means, Graph	Lesson 1: 9.4.3 Investigating photosynthesis (full write up)	Lesson 1: 1.2.1 – Gravity, compare and distinguish mass and weight, use $W = mg$ Lesson 2: 1.2.1 – Gravity, calculating gravity on different planets Lesson 3: 1.2.1 – Gravity, gravity and forces	Lesson 1: 1a Forces Test Lesson 2: Exemplars/Feedback	Lesson 1: Acids and Alkalis Project Lesson 6 – Calculate means, Graph		
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Homework	Activelearn task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Activelearn task suitable to ability of group.	Activelearn task suitable to ability of group.	Kerboodle task suitable to ability of group.		
Assessment this half-term	1a Forces Test	W/b 17 th Oct - Working Scientifically Project		1a Forces Test	1a Forces Test	W/b 17 th Oct - Working Scientifically Project		
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Week 7 (w/b 17th Oct)	Lesson 1: 1.2.1 – Gravity, compare and distinguish mass and weight, use $W = mg$	Lesson 1: Acids and Alkalis Project Lesson 7 – Conclusion, Evaluation	Lesson 1: 9.4.3 Investigating photosynthesis (full write up)	Lesson 1: 1a Forces Test Lesson 2: Exemplars Lesson 3: Feedback	Lesson 1: 9.4.1 Photosynthesis Lesson 2: 9.4.1 Photosynthesis (starch testing leaves)	Lesson 1: Acids and Alkalis Project Lesson 7 – Conclusion, Evaluation
Key Words Level 2 Level 3	Identify, control, explain, compare Force, balanced, unbalanced, contact, non-contact, newton, speed, displacement, acceleration, gravity, mass, weight	Hypothesis, Variable – independent, dependent, control, valid/validity, conclusion, evaluation, reliability, repeatability Acid/acidic, alkali, , hydroxide, ion, base, neutralisation, indicator, phenolphthalein, pH	Hypothesis, Variable – independent, dependent, control, valid/validity, conclusion, evaluation, reliability, repeatability Photosynthesis, chloroplast, chlorophyll, limiting factor, palisade cell, stomata		Identify, control, explain, compare Photosynthesis, chloroplast, chlorophyll, limiting factor, palisade cell, stomata	Hypothesis, Variable – independent, dependent, control, valid/validity, conclusion, evaluation, reliability, repeatability Acid/acidic, alkali, , hydroxide, ion, base, neutralisation, indicator, phenolphthalein, pH
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Assessment this half-term	1a Forces Test	W/b 17 th Oct - Working Scientifically Project		1a Forces Test		W/b 17 th Oct - Working Scientifically Project
Career opportunities Employment Links	LIFE SKILLS: Understanding the difference between mass and weight EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/background-artist	LIFE SKILLS: Understanding how household acids and alkalis can be neutralised EMPLOYMENT: Analytical chemist	LIFE SKILLS: Understanding the conditions needed for plants to grow EMPLOYMENT: Framing, horticulture, agriculture, botany	LIFE SKILLS: Resilience EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/outreach-diversity	LIFE SKILLS: Understanding the conditions needed for plants to grow EMPLOYMENT: Framing, horticulture, agriculture, botany	LIFE SKILLS: Understanding how household acids and alkalis can be neutralised EMPLOYMENT: Analytical chemist
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework	IT1 & IT2: Using google for research and cameras to photograph practical work for final reports	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT1 & IT2: Using google for research and cameras to photograph practical work for final reports
Notes			* Set up plant minerals prac			

Autumn 2	Year 9					
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (SMS)	X4 (AEC)
Week 8 (w/b 31 st Oct)	Lesson 1: 1.2.1 Gravity – calculating W	Lesson 1: 6.3.1 Atoms in chemical reactions	Lesson 1: 9.4.4 Plant minerals	Lesson 1: 9.4.1 Photosynthesis Lesson 2: 9.4.1 Photosynthesis (starch testing leaves) Lesson 3: 9.4.2 Stomata (nail varnish underside leaf practical)	Lesson 1: 9.4.2 Stomata (nail varnish underside leaf practical) Lesson 2: 9.4.3 Investigating photosynthesis (full write up)	Lesson 1: 6.3.1 Atoms in chemical reactions
Key Words Level 2 Level 3	Identify, describe, explain Force, balanced, unbalanced, contact, non-contact, newton, speed, displacement, acceleration, gravity, mass, weight	Identify, describe, explain Atom, compound, mixture, irreversible, conservation of mass, balancing, combustion, thermal decomposition, displacement, oxidation, reduction	Identify, describe, explain Active transport, deficiency, chlorophyll	Identify, describe, explain Photosynthesis, chlorophyll, chloroplast, stomata, limiting factor	Identify, describe, explain Photosynthesis, chlorophyll, chloroplast, stomata, limiting factor, independent variable, dependent variable, control variable, valid, reliability, reproducibility	Identify, describe, explain Atom, compound, mixture, irreversible, conservation of mass, balancing, combustion, thermal decomposition, displacement, oxidation, reduction
Common Misconceptions	Ensure pupils set calculations out correctly (State equation, state calculation, state answer with unit). Objects which have a constant/steady speed don't have balanced forces acting upon them	The link between balancing and conservation of mass is not strongly made in pupils minds	That all plants need the same minerals in order to survive	That stomata are open all of the time	That stomata are open all of the time	The link between balancing and conservation of mass is not strongly made in pupils minds
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	1a Forces Test	6 mark question in class	W/b 19 th Dec - 9b Ecosystems Test	W/b 5 th Dec - 9b Ecosystems Test	W/b 5 th Dec - 9b Ecosystems Test	6 mark in class question
Career opportunities Employment Links	LIFE SKILLS: Understanding the effects of different forces EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/background-artist	LIFE SKILLS: Understanding how chemical reactions occur EMPLOYMENT: Analytical chemist	LIFE SKILLS: Understanding how to keep plants healthy EMPLOYMENT: Horticulture, agriculture, farming	LIFE SKILLS: Understanding optimal growth conditions in plants EMPLOYMENT: Horticulture, agriculture, farming	LIFE SKILLS: Understanding optimal growth conditions in plants EMPLOYMENT: Horticulture, agriculture, farming	LIFE SKILLS: Understanding how chemical reactions occur EMPLOYMENT: Analytical chemist
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (SMS)	X4 (AEC)
Week 9 (w/b 7 th Nov)	Lesson 1: 1a Forces Test	Lesson 1: 6.3.1 Atoms in chemical reactions	Lesson 1: 9.4.4 Plant minerals – review prac	Lesson 1: 9.4.3 Investigating photosynthesis (full write up) Lesson 2: 9.4.3 Investigating photosynthesis (full write up) Lesson 3: 9.4.3 Investigating photosynthesis (full write up)	Lesson 1: Investigating photosynthesis (full write up) Lesson 2: 9.4.4 Plant minerals	Lesson 1: 6.3.1 Atoms in chemical reactions
Key Words Level 2 Level 3	Identify, describe, explain, compare, contrast, evaluate	Identify, describe, explain Atom, compound, mixture, irreversible, conservation of mass, balancing, combustion, thermal decomposition, displacement, oxidation, reduction	Identify, describe, explain Deficiency, chloroplast, chlorophyll, photosynthesis	Identify, describe, explain Photosynthesis, chlorophyll, chloroplast, stomata, limiting factor, independent variable, dependent variable, control variable, reliability, reproducibility, valid, continuous, discontinuous	Identify, describe, explain Photosynthesis, chlorophyll, chloroplast, stomata, limiting factor, independent variable, dependent variable, control variable, reliability, reproducibility, valid, continuous, discontinuous	Identify, describe, explain Atom, compound, mixture, irreversible, conservation of mass, balancing, combustion, thermal decomposition, displacement, oxidation, reduction

	Presenting Problem solving Staying positive Teamwork	Presenting Problem solving Staying positive Teamwork	Presenting Problem solving Staying positive Teamwork	Presenting Problem solving Staying positive Teamwork	Presenting Problem solving Staying positive Teamwork	Presenting Problem solving Staying positive Teamwork
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (SMS)	X4 (AEC)
Week 11 (w/b 21st Nov)	Lesson 1: Exemplars	Lesson 1: 6.3.2 Combustion - practical	Lesson 1: 9.3.2 Fermentation	Lesson 1: 9.3.1 Aerobic respiration Lesson 2: 9.3.1 Aerobic respiration – exercise on heart rate prac Lesson 3: 9.3.2 Fermentation	Lesson 1: 9.3.3 Lesson 1: 9.3.2 Fermentation Lesson 2: 9.3.2 Fermentation – rate of fermentation prac	Lesson 1: 6.3.2 Combustion - practical
Key Words Level 2 Level 3	Identify, describe, explain, compare, contrast, evaluate	Identify, describe, explain Atom, compound, mixture, irreversible, conservation of mass, balancing, combustion, thermal decomposition, displacement, oxidation, reduction	Identify, describe, explain Anaerobic, respiration, lactic acid, ethanol, fermentation	Identify, describe, explain Aerobic, anaerobic, respiration, cardiac, independent variable, dependent variable, control variable, reliability, reproducibility, valid, continuous, discontinuous, fermentation	Identify, describe, explain Anaerobic, respiration, lactic acid, ethanol, fermentation	Identify, describe, explain Atom, compound, mixture, irreversible, conservation of mass, balancing, combustion, thermal decomposition, displacement, oxidation, reduction
Common Misconceptions	Identified from assessment	The link between balancing and conservation of mass is not strongly made in pupils minds	That all fermentation produces things that smell bad	That the more muscle you have the better cardiac fitness you have	That all fermentation produces things that smell bad	The link between balancing and conservation of mass is not strongly made in pupils minds
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	1a Forces Test	6 mark question in class	W/b 19 th Dec - 9b Ecosystems Test	W/b 5 th Dec - 9b Ecosystems Test	W/b 5 th Dec - 9b Ecosystems Test	6 mark in class question
Career opportunities Employment Links	LIFE SKILLS: Resilience EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/background-artist	LIFE SKILLS: Understanding how and why things burn EMPLOYMENT: Heating engineer	LIFE SKILLS: Understanding how yoghurt, beer and bread is made EMPLOYMENT: Baker, nutritionist, brewer	LIFE SKILLS: Understanding how activity and heart rate are linked EMPLOYMENT: Physiotherapist, personal trainer, dietician	LIFE SKILLS: Understanding how yoghurt, beer and bread is made EMPLOYMENT: Baker, nutritionist, brewer	LIFE SKILLS: Understanding how and why things burn EMPLOYMENT: Heating engineer
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (SMS)	X4 (AEC)
Week 12 (w/b 28th Nov)	Lesson 1: 4.3.1 Sound waves, water waves, energy – frequency and amplitude	Lesson 1: 6.3.3 Thermal Decomposition	Lesson 1: 9.3.2 Fermentation – rate of fermentation prac	Lesson 1: 9.3.2 Fermentation – rate of fermentation prac Lesson 2: 9.3.3 Biotechnology Lesson 3: 9.3.3 Biotechnology – effect of temp on fermentation prac	Lesson 1: 9.3.3 Biotechnology Lesson 2: 9.3.3 Biotechnology – effect of temp on fermentation prac	Lesson 1: 6.3.3 Thermal Decomposition
Key Words Level 2 Level 3	Identify, describe, explain Frequency, amplitude, energy, oscilloscope	Identify, describe, explain Atom, compound, mixture, irreversible, conservation of mass, balancing, combustion, thermal decomposition, displacement, oxidation, reduction	Identify, describe, explain Anaerobic, respiration, lactic acid, ethanol	Identify, describe, explain Anaerobic, respiration, lactic acid, ethanol, biotechnology, fermentation	Identify, describe, explain Anaerobic, respiration, lactic acid, ethanol, fermentation	Identify, describe, explain Atom, compound, mixture, irreversible, conservation of mass, balancing, combustion, thermal decomposition, displacement, oxidation, reduction
Common Misconceptions	That waves transfer matter as well as energy	The link between balancing and conservation of mass is not strongly made in pupils minds	That all fermentation produces things that smell bad	That biotechnology is just GM foods	That biotechnology is just GM foods	The link between balancing and conservation of mass is not strongly made in pupils minds

Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	6 mark question in class	6 mark question in class	W/b 19 th Dec - 9b Ecosystems Test	W/b 5 th Dec - 9b Ecosystems Test	W/b 5 th Dec - 9b Ecosystems Test	6 mark in class question
Career opportunities Employment Links	LIFE SKILLS: Understand how sound can be manipulated EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/background-artist	LIFE SKILLS: Understand how things can be broken down using heat EMPLOYMENT: Heating engineer	LIFE SKILLS: Understanding how yoghurt, beer and bread is made EMPLOYMENT: Baker, nutritionist, brewer	LIFE SKILLS: Understanding how yoghurt, beer and bread is made EMPLOYMENT: Baker, nutritionist, brewer	LIFE SKILLS: Understanding how yoghurt, beer and bread is made EMPLOYMENT: Baker, nutritionist, brewer	LIFE SKILLS: Understand how things can be broken down using heat EMPLOYMENT: Heating engineer
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (SMS)	X4 (AEC)
Week 13 (w/b 5th Dec)	Lesson 1: 4.3.1 Sound waves, water waves, energy	Lesson 1: 6.3.3 Thermal Decomposition – equations & balancing	Lesson 1: 9.3.3 Biotechnology	Lesson 1: Test Lesson 2: Test feedback Lesson 3: Test feedback	Lesson 1: Test Lesson 2: Test feedback	Lesson 1: 6.3.3 Thermal Decomposition – equations & balancing
Key Words Level 2 Level 3	Identify, describe, explain Frequency, amplitude, energy, oscilloscope	Identify, describe, explain Atom, compound, mixture, irreversible, conservation of mass, balancing, combustion, thermal decomposition, displacement, oxidation, reduction	Identify, describe, explain Anaerobic, respiration, lactic acid, ethanol	Identify, describe, explain, compare, contrast, evaluate	Identify, describe, explain, compare, contrast, evaluate	Identify, describe, explain Atom, compound, mixture, irreversible, conservation of mass, balancing, combustion, thermal decomposition, displacement, oxidation, reduction
Common Misconceptions	That waves transfer matter as well as energy	The link between balancing and conservation of mass is not strongly made in pupils minds	That biotechnology is just GM foods	Identified from assessment	Identified from assessment	The link between balancing and conservation of mass is not strongly made in pupils minds
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	6 mark question in class	6 mark question in class	W/b 19 th Dec - 9b Ecosystems Test	W/b 5 th Dec - 9b Ecosystems Test	W/b 5 th Dec - 9b Ecosystems Test	6 mark in class question
Career opportunities Employment Links	LIFE SKILLS: Understand how sound can be manipulated EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/background-artist	LIFE SKILLS: Understand how things can be broken down using heat EMPLOYMENT: Heating engineer	LIFE SKILLS: Understanding how yoghurt, beer and bread is made EMPLOYMENT: Baker, nutritionist, brewer	LIFE SKILLS: Resilience EMPLOYMENT: Biology teacher	LIFE SKILLS: Resilience EMPLOYMENT: Biology teacher	LIFE SKILLS: Understand how things can be broken down using heat EMPLOYMENT: Heating engineer
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (SMS)	X4 (AEC)

Assessment this half-term	6 mark question in class	6 mark question in class	W/b 19 th Dec - 9b Ecosystems Test	6 mark in class question	6 mark in class question	6 mark in class question
Career opportunities Employment Links	LIFE SKILLS: Understanding how certain forms of energy are emitted EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/background-artist	LIFE SKILLS: Understanding how the products of a reaction always add up to the reactants EMPLOYMENT: Analytical chemist	LIFE SKILLS: Resilience EMPLOYMENT: Biology teacher	LIFE SKILLS: Understanding how and why things burn EMPLOYMENT: Heating engineer	LIFE SKILLS: Understand how sound can be manipulated EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/background-artist	LIFE SKILLS: Understanding how the products of a reaction always add up to the reactants EMPLOYMENT: Analytical chemist
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework

Spring 1	Year 9					
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (SMS)	X4 (AEC)
Week 16 (w/b Wed 4th Jan)	Lesson 1: 4.3.2 Radiation and Energy – electromagnetic wave uses	Lesson 1: 6.4.1 Exo and Endothermic - practicals	Lesson 1: Test feedback	Lesson 1: 6.3.3 Thermal Decomposition Lesson 2: 6.3.4 Conservation of mass Lesson 3: 6.3.4 Conservation of mass	Lesson 1: 4.3.1 Sound waves, water waves and energy- ultrasound Lesson 2: 4.3.1 Sound waves, water waves and energy- ultrasound	Lesson 1: 6.4.1 Exo and Endothermic - practicals
Key Words Level 2 Level 3	Identify, describe, explain Electromagnetic, spectrum, gamma rays, microwaves, infrared, ultraviolet, x-rays, amplitude, frequency	Identify, describe, explain Exothermic, endothermic, energy change, enthalpy change, reaction profile,	Identify, describe, explain, compare, evaluate	Identify, describe, explain Atom, compound, mixture, irreversible, conservation of mass, balancing, combustion, thermal decomposition, displacement, oxidation, reduction	Identify, describe, explain Solid, liquid, gas, speed, vibration, frequency, Electromagnetic, spectrum, gamma rays, microwaves, infrared, ultraviolet, x-rays, amplitude, frequency	Identify, describe, explain Exothermic, endothermic, energy change, enthalpy change, reaction profile,
Common Misconceptions	That microwaves are the thing you put your food in, not the waves that heat the food up.	Pupils sometimes get endothermic and exothermic mixed up -Exo – heat Exits the chemicals, ENdo – heat ENters the chemicals	Identified from assessment	That mass is lost when new products form	Light doesn't travel in a straight line. Primary colours in Art and Science are the same) (They are Red, Green, Blue in science). They think an object gives off a colour instead of reflecting.	Pupils sometimes get endothermic and exothermic mixed up -Exo – heat Exits the chemicals, ENdo – heat ENters the chemicals
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	w/b 13 th Feb – 4b Waves Test	Online test – w/b 6 th Feb	6 mark in class question	Online test – w/b 6 th Feb	w/b 6 th Feb – 4b Waves Test	Online test – w/b 6 th Feb
Career opportunities Employment Links	LIFE SKILLS: Understanding the risks of radiation EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics	LIFE SKILLS: Understanding why heat is given out or taken in EMPLOYMENT: Heating engineer	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding how to predict products in a reaction EMPLOYMENT: Heating engineer	LIFE SKILLS: Understanding how sound travels EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics	LIFE SKILLS: Understanding why heat is given out or taken in EMPLOYMENT: Heating engineer
Employability Skills	Aiming high Creativity Leadership Listening	Literacy Numeracy Independence Communication	Aiming high Creativity Leadership Listening	Literacy Numeracy Independence Communication	Aiming high Creativity Leadership Listening	Literacy Numeracy Independence Communication

	Presenting Teamwork Problem solving Staying positive	Presenting Teamwork Problem solving Staying positive	Presenting Teamwork Problem solving Staying positive	Presenting Teamwork Problem solving Staying positive	Presenting Teamwork Problem solving Staying positive	Presenting Teamwork Problem solving Staying positive
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (SMS)	X4 (AEC)
Week 17 (w/b 9th Jan)	Lesson 1: 4.3.2 Radiation and Energy – electromagnetic wave dangers	Lesson 1: 6.4.1 Exothermic and Endothermic	Lesson 1: Test feedback	Lesson 1: 6.4.1 Endo & Exothermic Lesson 2: 6.4.1 Endo & Exothermic Lesson 3: 6.4.2 Energy Level Diagrams	Lesson 1: 4.3.1 Sound waves, water waves and energy- ultrasound Lesson 2: 4.3.1 Sound waves, water waves and energy- ultrasound	Lesson 1: 6.4.1 Exothermic and Endothermic
Key Words Level 2 Level 3	Identify, describe, explain Electromagnetic, spectrum, gamma rays, microwaves, infrared, ultraviolet, x-rays, amplitude, frequency	Identify, describe, explain Exothermic, endothermic, energy change, enthalpy change, reaction profile,	Identify, describe, explain, compare, evaluate	Identify, describe, explain Exothermic, endothermic, energy change, enthalpy change, reaction profile,	Identify, describe, explain Solid, liquid, gas, speed, vibration, frequency, Electromagnetic, spectrum, gamma rays, microwaves, infrared, ultraviolet, x-rays, amplitude, frequency	Identify, describe, explain Exothermic, endothermic, energy change, enthalpy change, reaction profile,
Common Misconceptions	That microwaves are the thing you put your food in, not the waves that heat the food up.	Pupils sometimes get endothermic and exothermic mixed up -Exo – heat Exits the chemicals, ENdo – heat ENters the chemicals	Identified from assessment	Pupils sometimes get endothermic and exothermic mixed up -Exo – heat Exits the chemicals, ENdo – heat ENters the chemicals	Light doesn't travel in a straight line. Primary colours in Art and Science are the same) (They are Red, Green, Blue in science). They think an object gives off a colour instead of reflecting.	Pupils sometimes get endothermic and exothermic mixed up -Exo – heat Exits the chemicals, ENdo – heat ENters the chemicals
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	w/b 13 th Feb – 4b Waves Test	Online test – w/b 6 th Feb	6 mark in class question	Online test – w/b 6 th Feb	w/b 6 th Feb – 4b Waves Test	Online test – w/b 6 th Feb
Career opportunities Employment Links	LIFE SKILLS: Understanding the hazards of radiation EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics	LIFE SKILLS: Understanding why heat is given out or taken in EMPLOYMENT: Heating engineer	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding why heat is given out or taken in EMPLOYMENT: Heating engineer	LIFE SKILLS: Understanding the uses of different waves EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics	LIFE SKILLS: Understanding why heat is given out or taken in EMPLOYMENT: Heating 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	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	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (SMS)	X4 (AEC)
Week 18 (w/b 16th Jan)	Lesson 1: 4.1.1 Sound waves and speed - measure speed of sound	Lesson 1: 6.4.2 Energy level Diagrams	Lesson 1: Test feedback	Lesson 1: 6.4.2 Energy Level Diagrams Lesson 2: 6.4.3 Bond Energies Lesson 3: 6.4.3 Bond Energies	Lesson 1: 4.3.1 Sound waves, water waves and energy- ultrasound Lesson 2: 4.3.1 Sound waves, water waves and energy- ultrasound	Lesson 1: 6.4.2 Energy level Diagrams
Key Words Level 2 Level 3	Identify, describe, explain Solid, liquid, gas, speed, vibration, frequency, Electromagnetic, spectrum, gamma rays, microwaves, infrared, ultraviolet, x-rays, amplitude, frequency	Identify, describe, explain Exothermic, endothermic, energy change, enthalpy change, reaction profile,	Identify, describe, explain, compare, evaluate	Identify, describe, explain Exothermic, endothermic, energy change, enthalpy change, reaction profile,	Identify, describe, explain Solid, liquid, gas, speed, vibration, frequency, Electromagnetic, spectrum, gamma rays, microwaves, infrared, ultraviolet, x-rays, amplitude, frequency	Identify, describe, explain Exothermic, endothermic, energy change, enthalpy change, reaction profile,
Common Misconceptions	Light doesn't travel in a straight line.	Pupils sometimes get endothermic and exothermic mixed up -Exo –	Identified from assessment	Pupils sometimes get endothermic and exothermic mixed up -Exo –	Light doesn't travel in a straight line.	Pupils sometimes get endothermic and exothermic mixed up -Exo –

	Primary colours in Art and Science are the same) (They are Red, Green, Blue in science). They think an object gives off a colour instead of reflecting.	heat Exits the chemicals, ENdo – heat ENters the chemicals		heat Exits the chemicals, ENdo – heat ENters the chemicals	Primary colours in Art and Science are the same) (They are Red, Green, Blue in science). They think an object gives off a colour instead of reflecting.	heat Exits the chemicals, ENdo – heat ENters the chemicals
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	w/b 13 th Feb – 4b Waves Test	Online test – w/b 6 th Feb	6 mark in class question	Online test – w/b 6 th Feb	w/b 6 th Feb – 4b Waves Test	Online test – w/b 6 th Feb
Career opportunities Employment Links	LIFE SKILLS: Understanding how sound travels EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics	LIFE SKILLS: Understanding why energy is lost or gained EMPLOYMENT: Heating engineer	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding why energy is lost or gained EMPLOYMENT: Heating engineer	LIFE SKILLS: Understanding how sound travels EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics	LIFE SKILLS: Understanding why energy is lost or gained EMPLOYMENT: Heating engineer
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (SMS)	X4 (AEC)
Week 19 (w/b 23rd Jan)	Lesson 1: 4.1.1 Sound waves and speed – speed of sound in solids, liquids, gases	Lesson 1: 6.4.2 Energy Level Diagrams	Lesson 1: 10.3.1 Natural selection	Lesson 1: 6b Reactions Test Lesson 2: Exemplars/Feedback Lesson 3: Exemplars/Feedback	Lesson 1: 4.4.1 Modelling Waves Lesson 2: 4.4.1 Modelling Waves	Lesson 1: 6.4.2 Energy Level Diagrams
Key Words Level 2 Level 3	Identify, describe, explain Solid, liquid, gas, speed, vibration, frequency, Electromagnetic, spectrum, gamma rays, microwaves, infrared, ultraviolet, x-rays, amplitude, frequency	Identify, describe, explain Exothermic, endothermic, energy change, enthalpy change, reaction profile	Identify, describe, explain Mutation, inheritance, species, evolution, adaptation, extinction	Identify, describe, explain, compare, evaluate	Identify, describe, explain Solid, liquid, gas, speed, vibration, frequency, Electromagnetic, spectrum, gamma rays, microwaves, infrared, ultraviolet, x-rays, amplitude, frequency	Identify, describe, explain Exothermic, endothermic, energy change, enthalpy change, reaction profile
Common Misconceptions	Light doesn't travel in a straight line. Primary colours in Art and Science are the same) (They are Red, Green, Blue in science). They think an object gives off a colour instead of reflecting.	Pupils sometimes get endothermic and exothermic mixed up -EXo – heat Exits the chemicals, ENdo – heat ENters the chemicals	Evolution is a quick process	Identified from assessment	Light doesn't travel in a straight line. Primary colours in Art and Science are the same) (They are Red, Green, Blue in science). They think an object gives off a colour instead of reflecting.	Pupils sometimes get endothermic and exothermic mixed up -EXo – heat Exits the chemicals, ENdo – heat ENters the chemicals
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	w/b 13 th Feb – 4b Waves Test	Online test – w/b 6 th Feb	6 mark in class question	Online test – w/b 6 th Feb	w/b 6 th Feb – 4b Waves Test	Online test – w/b 6 th Feb
Career opportunities Employment Links	LIFE SKILLS: Understanding how sound travels EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics	LIFE SKILLS: Understanding why energy is lost or gained EMPLOYMENT: Heating engineer	LIFE SKILLS: Understanding the evidence for evolution EMPLOYMENT: Anthropologist, evolutionary biologist, zoologist	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding the roles of different types of waves EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics	LIFE SKILLS: Understanding why energy is lost or gained EMPLOYMENT: Heating engineer
Employability Skills	Aiming high Creativity Leadership Listening	Literacy Numeracy Independence Communication	Aiming high Creativity Leadership Listening	Literacy Numeracy Independence Communication	Aiming high Creativity Leadership Listening	Literacy Numeracy Independence Communication

	Presenting Teamwork Problem solving Staying positive	Presenting Teamwork Problem solving Staying positive	Presenting Teamwork Problem solving Staying positive	Presenting Teamwork Problem solving Staying positive	Presenting Teamwork Problem solving Staying positive	Presenting Teamwork Problem solving Staying positive
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (SMS)	X4 (AEC)
Week 20 (w/b 30th Jan)	Lesson 1: 4.1.1 Sound waves and speed	Lesson 1: 6.4.3 Bond Energies (with X1 you will probably want to spend more time on this than on energy level diagrams)	Lesson 1: 10.3.2 Charles Darwin	Lesson 1: 4.3.1 Sound waves, water waves and energy- ultrasound Lesson 2: 4.3.1 Sound waves, water waves and energy- ultrasound Lesson 3: 4.3.1 Sound waves, water waves and energy- ultrasound	Lesson 1: 4.4.1 Modelling Waves Lesson 2: 4.4.1 Modelling Waves	Lesson 1: 6.4.3 Bond Energies (with X1 you will probably want to spend more time on this than on energy level diagrams)
Key Words Level 2 Level 3	Identify, describe, explain Solid, liquid, gas, speed, vibration, frequency, Electromagnetic, spectrum, gamma rays, microwaves, infrared, ultraviolet, x-rays, amplitude, frequency	Identify, describe, explain Exothermic, endothermic, energy change, enthalpy change, reaction profile,	Identify, describe, explain Mutation, inheritance, species, evolution, adaptation, extinction, Galapagos	Identify, describe, explain Solid, liquid, gas, speed, vibration, frequency, Electromagnetic, spectrum, gamma rays, microwaves, infrared, ultraviolet, x-rays, amplitude, frequency	Identify, describe, explain Solid, liquid, gas, speed, vibration, frequency, Electromagnetic, spectrum, gamma rays, microwaves, infrared, ultraviolet, x-rays, amplitude, frequency	Identify, describe, explain Exothermic, endothermic, energy change, enthalpy change, reaction profile,
Common Misconceptions	Light doesn't travel in a straight line. Primary colours in Art and Science are the same) (They are Red, Green, Blue in science). They think an object gives off a colour instead of reflecting.	Pupils sometimes get endothermic and exothermic mixed up -EXO – heat Exits the chemicals, ENdo – heat ENters the chemicals	Evolution is a quick process	Light doesn't travel in a straight line. Primary colours in Art and Science are the same) (They are Red, Green, Blue in science). They think an object gives off a colour instead of reflecting.	Light doesn't travel in a straight line. Primary colours in Art and Science are the same) (They are Red, Green, Blue in science). They think an object gives off a colour instead of reflecting.	Pupils sometimes get endothermic and exothermic mixed up -EXO – heat Exits the chemicals, ENdo – heat ENters the chemicals
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	w/b 13 th Feb – 4b Waves Test	Online test – w/b 6 th Feb	6 mark in class question	Online test – w/b 6 th Feb	w/b 6 th Feb – 4b Waves Test	Online test – w/b 6 th Feb
Career opportunities Employment Links	LIFE SKILLS: Understanding how sound travels EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics	LIFE SKILLS: Understanding why energy is lost or gained EMPLOYMENT: Heating engineer	LIFE SKILLS: Understanding the evidence for evolution EMPLOYMENT: Anthropologist, evolutionary biologist, zoologist	LIFE SKILLS: Understanding how sound travels EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics	LIFE SKILLS: Understanding the roles of different types of waves EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics	LIFE SKILLS: Understanding why energy is lost or gained EMPLOYMENT: Heating engineer
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (SMS)	X4 (AEC)
Week 21 (w/b 6th Feb)	Lesson 1: 4.1.1 Sound waves and speed	Lesson 1: Online Test	Lesson 1: 10.3.3 Extinction	Lesson 1: Online test Lesson 2: 4.3.2 Radiation and Energy Lesson 3: 4.3.2 Radiation and Energy	Lesson 1: 4b Waves Test Lesson 2: Feedback/Exemplars	Lesson 1: Online Test
Key Words Level 2 Level 3	Identify, describe, explain Solid, liquid, gas, speed, vibration, frequency, Electromagnetic, spectrum, gamma rays, microwaves, infrared, ultraviolet, x-rays, amplitude, frequency	Identify, describe, explain Exothermic, endothermic, energy change, enthalpy change, reaction profile,	Identify, describe, explain Mutation, inheritance, species, evolution, adaptation, extinction	Identify, describe, explain Solid, liquid, gas, speed, vibration, frequency, Electromagnetic, spectrum, gamma rays, microwaves, infrared, ultraviolet, x-rays, amplitude, frequency	Identify, describe, explain Solid, liquid, gas, speed, vibration, frequency, Electromagnetic, spectrum, gamma rays, microwaves, infrared, ultraviolet, x-rays, amplitude, frequency	Identify, describe, explain Exothermic, endothermic, energy change, enthalpy change, reaction profile,

	Presenting Teamwork Problem solving Staying positive	Presenting Teamwork Problem solving Staying positive	Presenting Teamwork Problem solving Staying positive	Presenting Teamwork Problem solving Staying positive	Presenting Teamwork Problem solving Staying positive	Presenting Teamwork Problem solving Staying positive
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework

Spring 2	Year 9					
	X1 (JFW)	X1 (DHN)	X1 (JAD)	X2/X3/X5	X4 (AEC)	X4 (SMS)
Week 23 (w/b 27 th Feb)	Lesson 1: Feedback	Lesson 1: Exemplars/Feedback	Lesson 1: 10.4.1 Inheritance	Lesson 1: 4b Waves Test Lesson 2: Feedback Lesson 3: Exemplars	Lesson 1: Exemplars/Feedback	Lesson 1: Lesson 1: 10.3.3 Extinction Lesson 2: 10.3.4 Preserving biodiversity
Key Words Level 2 Level 3	Identify, describe, explain, compare, evaluate	Identify, describe, explain, compare, evaluate	Identify, describe, explain Allele, gene, dominant, recessive, characteristic, inheritance, gamete, chromosome, probability	Identify, describe, explain, compare, evaluate	Identify, describe, explain, compare, evaluate	Identify, describe, explain Extinction, poaching, biodiversity, ecosystem, habitat, conservation, natural selection
Common Misconceptions	Identified from assessment	Identified from assessment	All characteristics are inherited directly from parents	Identified from assessment	Identified from assessment	Only animals become extinct
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	6 mark in class question	6 mark in class question	w/b 27 th Mar – 10b Genes	w/b 27 th Feb - 4b Waves w/b 27 th Mar – 10b Genetic	6 mark in class question	w/b 20 th Mar – 10b Genes
Career opportunities Employment Links	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding how characteristics are inherited EMPLOYMENT: Geneticist	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding why species become extinct EMPLOYMENT: Zoologist, conservationist
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	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	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (JFW)	X1 (DHN)	X1 (JAD)	X2/X3/X5	X4 (AEC)	X4 (SMS)
Week 24 (w/b 6 th Mar)	Lesson 1: Exemplars	Lesson 1: Exemplars/Feedback	Lesson 1: 10.4.2 DNA – extracting DNA from kiwi prac	Lesson 1: 10.3.1 Natural selection Lesson 2: 10.3.2 Charles Darwin Lesson 3: 10.3.3 Extinction	Lesson 1: Exemplars/Feedback	Lesson 1: 10.4.1 Inheritance Lesson 2: 10.4.2 DNA – extracting DNA from kiwi prac
Key Words Level 2 Level 3	Identify, describe, explain, compare, evaluate	Identify, describe, explain, compare, evaluate	Identify, describe, explain Allele, gene, dominant, recessive, characteristic, inheritance, gamete, chromosome, probability, extraction	Identify, describe, explain Extinction, poaching, biodiversity, ecosystem, habitat, conservation, natural selection	Identify, describe, explain, compare, evaluate	Identify, describe, explain Allele, gene, dominant, recessive, characteristic, inheritance, gamete, chromosome, probability, extraction
Common Misconceptions	Identified from assessment	Identified from assessment	Only animals have DNA	Evolution is a fast process	Identified from assessment	Only animals have DNA
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	6 mark in class question	6 mark in class question	w/b 27 th Mar – 10b Genes	w/b 27 th Mar – 10b Genetic	6 mark in class question	w/b 20 th Mar – 10b Genes
Career opportunities Employment Links	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding how DNA can be used EMPLOYMENT: Forensic scientist	LIFE SKILLS: Understanding the process of evolution EMPLOYMENT: Natural sciences	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding how DNA can be used EMPLOYMENT: Forensic scientist

Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (JFW)	X1 (DHN)	X1 (JAD)	X2/X3/X5	X4 (AEC)	X4 (AEC)	X4 (AEC)	X4 (AEC)	X4 (AEC)	X4 (SMS)
Week 25 (w/b 13th Mar)	Lesson 1: 1.3.1 Friction and drag	Lesson 1: 7.1.1 Structure of the Earth	Lesson 1: 10.4.3 Genetics	Lesson 1: Student research for presentation into Darwin and extinction Lesson 2: Student preparation of presentations into Darwin and extinction Lesson 3: Student presentations	Lesson 1: 7.1.1 Structure of the Earth	Lesson 1: 7.1.1 Structure of the Earth	Lesson 1: 7.1.1 Structure of the Earth	Lesson 1: 7.1.1 Structure of the Earth	Lesson 1: 7.1.1 Structure of the Earth	Lesson 1: 10.4.3 Genetics Lesson 2: 10.4.4 Genetic modification
Key Words Level 2 Level 3	Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces	Identify, describe, explain Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition, transportation	Identify, describe, explain Allele, gene, dominant, recessive, characteristic, inheritance, gamete, chromosome, probability	Identify, describe, explain Extinction, poaching, biodiversity, ecosystem, habitat, conservation, natural selection	Identify, describe, explain Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition, transportation	Identify, describe, explain Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition, transportation	Identify, describe, explain Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition, transportation	Identify, describe, explain Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition, transportation	Identify, describe, explain Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition, transportation	Identify, describe, explain Allele, gene, dominant, recessive, characteristic, inheritance, gamete, chromosome, probability
Common Misconceptions	Types of resistance (drag particularly). Weight and mass being the same. Plastic is a material and not a property (plastic deformation is when a material does not return to its original shape).	The Earth is flat	Characteristics are only directly inherited from parents	Evolution is a fast process	The Earth is flat	The Earth is flat	The Earth is flat	The Earth is flat	The Earth is flat	Characteristics are only directly inherited from parents
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	6 mark in class question	6 mark in class question	w/b 27 th Mar – 10b Genes	w/b 27 th Mar – 10b Genetic	6 mark in class question	6 mark in class question	6 mark in class question	6 mark in class question	6 mark in class question	w/b 20 th Mar – 10b Genes
Career opportunities Employment Links	LIFE SKILLS: Understanding of how forces act upon objects EMPLOYMENT: Manual handling, material scientist, civil engineer	LIFE SKILLS: Understanding the structure of the Earth EMPLOYMENT: Geologist	LIFE SKILLS: Understanding how DNA can be used EMPLOYMENT: Forensic scientist	LIFE SKILLS: Understanding the process of evolution EMPLOYMENT: Natural sciences	LIFE SKILLS: EMPLOYMENT: Geologist	LIFE SKILLS: EMPLOYMENT: Geologist	LIFE SKILLS: EMPLOYMENT: Geologist	LIFE SKILLS: EMPLOYMENT: Geologist	LIFE SKILLS: EMPLOYMENT: Geologist	LIFE SKILLS: Understanding how DNA can be used EMPLOYMENT: Forensic scientist
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT1 and IT2: Kerboodle homework and research for student presentation	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (JFW)	X1 (DHN)	X1 (JAD)	X2/X3/X5	X4 (AEC)	X4 (AEC)	X4 (AEC)	X4 (AEC)	X4 (AEC)	X4 (SMS)
Week 26 (w/b 20th Mar)	Lesson 1: 1.3.1 Friction and drag - experiment	Lesson 1: 7.1.2 Sedimentary Rocks	Lesson 1: 10.4.4 Genetic modification	Lesson 1: 10.3.4 Preserving biodiversity Lesson 2: 10.4.1 Inheritance Lesson 3: 10.4.2 DNA – extracting DNA from kiwi prac	Lesson 1: 7.1.2 Sedimentary Rocks	Lesson 1: 7.1.2 Sedimentary Rocks	Lesson 1: 7.1.2 Sedimentary Rocks	Lesson 1: 7.1.2 Sedimentary Rocks	Lesson 1: 7.1.2 Sedimentary Rocks	Lesson 1: Test Lesson 2: Test feedback

Key Words Level 2 Level 3	Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces	Identify, describe, explain Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition, transportation	Identify, describe, explain Allele, gene, dominant, recessive, characteristic, inheritance, gamete, chromosome, probability	Identify, describe, explain Allele, gene, dominant, recessive, characteristic, inheritance, gamete, chromosome, probability	Identify, describe, explain Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition, transportation	Identify, describe, explain Allele, gene, dominant, recessive, characteristic, inheritance, gamete, chromosome, probability
Common Misconceptions	Types of resistance (drag particularly). Weight and mass being the same. Plastic is a material and not a property (plastic deformation is when a material does not return to its original shape).	The Earth is flat	That genes cannot be altered	Plants don't have DNA	The Earth is flat	Identified from assessment
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	6 mark in class question	6 mark in class question	w/b 27 th Mar – 10b Genes	w/b 27 th Mar – 10b Genetic	6 mark in class question	w/b 20 th Mar – 10b Genes
Career opportunities Employment Links	LIFE SKILLS: Understanding of how forces act upon objects EMPLOYMENT: Manual handling, material scientist, civil engineer	LIFE SKILLS: Understanding how to recognise different rocks EMPLOYMENT: Geologist	LIFE SKILLS: Understanding 'designer' babies EMPLOYMENT: Geneticist	LIFE SKILLS: Understanding how DNA can be used EMPLOYMENT: Forensic scientist	LIFE SKILLS: Understanding how to recognise different rocks EMPLOYMENT: Geologist	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (JFW)	X1 (DHN)	X1 (JAD)	X2/X3/X5	X4 (AEC)	X4 (SMS)
Week 27 (w/b 27th Mar)	Lesson 1: 1.3.1 Friction and drag – analysis and evaluation	Lesson 1: 7.1.3 Igneous & Metamorphic Rocks	Lesson 1: Test	Lesson 1: 10.4.3 Genetics Lesson 2: 10.4.4 Genetic modification Lesson 3: Test	Lesson 1: 7.1.3 Igneous & Metamorphic Rocks	Lesson 1: 1.3.1 Friction and drag Lesson 2: 1.3.1 Friction and drag - experiment
Key Words Level 2 Level 3	Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces	Identify, describe, explain Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition, transportation	Identify, describe, explain Allele, gene, dominant, recessive, characteristic, inheritance, gamete, chromosome, probability	Identify, describe, explain Allele, gene, dominant, recessive, characteristic, inheritance, gamete, chromosome, probability	Identify, describe, explain Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition, transportation	Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces
Common Misconceptions	Types of resistance (drag particularly). Weight and mass being the same. Plastic is a material and not a property (plastic deformation is when a material does not return to its original shape).	The Earth is flat	Identified from assessment	Identified from assessment	The Earth is flat	Types of resistance (drag particularly). Weight and mass being the same. Plastic is a material and not a property (plastic deformation is when a material does not return to its original shape).
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	6 mark in class question	6 mark in class question	w/b 27 th Mar – 10b Genes	w/b 27 th Mar – 10b Genetic	6 mark in class question	6 mark in class question
Career opportunities Employment Links	LIFE SKILLS: Understanding of how forces act upon objects EMPLOYMENT: Manual handling, material scientist, civil engineer	LIFE SKILLS: Understanding how different rocks are formed EMPLOYMENT: Geologist	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding how different rocks are formed EMPLOYMENT: Geologist	LIFE SKILLS: Understanding of how forces act upon objects EMPLOYMENT: Manual handling, material scientist, civil engineer

Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework		IT2: Kerboodle homework		IT2: Kerboodle homework		IT2: Kerboodle homework		IT2: Kerboodle homework		IT2: Kerboodle homework	

Summer 1	Year 9					
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (AEC)	X4 (SMS)
Week 28 (w/b 17th Apr)	Lesson 1: 1.3.2 Squashing and stretching	Lesson 1: 7.1.4 The Rock Cycle	Lesson 1: Exemplars	Lesson 1: Exemplars Lesson 2: Feedback Lesson 3: Feedback	Lesson 1: 7.1.4 The Rock Cycle	Lesson 1: 1.3.1 Friction and drag – analysis and evaluation Lesson 2: 1.3.2
Key Words Level 2 Level 3	Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces	Identify, describe, explain Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition, transportation	Identify, describe, explain, compare, evaluate	Identify, describe, explain, compare, evaluate	Identify, describe, explain Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition, transportation	Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces
Common Misconceptions	Types of resistance (drag particularly). Weight and mass being the same. Plastic is a material and not a property (plastic deformation is when a material does not return to its original shape).	Flat earthers	Identified from assessment	Identified from assessment	Flat earthers	Types of resistance (drag particularly). Weight and mass being the same. Plastic is a material and not a property (plastic deformation is when a material does not return to its original shape).
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	6 mark in class question	6 mark in class question	6 mark in class question	w/b 22 nd May – 7b Earth test	6 mark in class question	6 mark in class question
Career opportunities Employment Links	LIFE SKILLS: Understanding of how forces act upon objects EMPLOYMENT: Manual handling, material scientist, civil engineer	LIFE SKILLS: Understanding how different rocks form EMPLOYMENT: Geologist	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Resilience EMPLOYMENT: Research scientist	LIFE SKILLS: Understanding how different rocks form EMPLOYMENT: Geologist	LIFE SKILLS: Understanding of how forces act upon objects EMPLOYMENT: Manual handling, material scientist, civil engineer
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework		IT2: Kerboodle homework		IT2: Kerboodle homework	
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (AEC)	X4 (SMS)
Week 29 (w/b 24th Apr)	Lesson 1: 1.3.2 Squashing and stretching	Lesson 1: 7.1.5 Ceramics	Lesson 1: Feedback	Lesson 1: 7.1.1 Structure of the Earth Lesson 2: 7.1.2 Sedimentary Rocks Lesson 3: 7.1.3 Igneous & Metamorphic Rocks	Lesson 1: 7.1.5 Ceramics	Lesson 1: 1.3.2 Squashing and stretching Lesson 2: 1.3.2 Squashing and stretching
Key Words	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain, compare, evaluate	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain

	Leadership Listening Presenting Problem solving Staying positive	Independence Communication Teamwork	Leadership Listening Presenting Problem solving Staying positive	Independence Communication Teamwork	Leadership Listening Presenting Problem solving Staying positive	Independence Communication Teamwork	Leadership Listening Presenting Problem solving Staying positive	Independence Communication Teamwork	Leadership Listening Presenting Problem solving Staying positive	Independence Communication Teamwork	Leadership Listening Presenting Problem solving Staying positive	Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework		IT2: Kerboodle homework		IT2: Kerboodle homework		IT2: Kerboodle homework		IT2: Kerboodle homework		IT2: Kerboodle homework	
	X1 (DHN)		X1 (CRE)		X1 (JAD)		X2/X3/X5		X4 (AEC)		X4 (SMS)	
Week 31 (w/b 8th Apr)	Lesson 1: 1.4.1 Pressure in gases		Lesson 1: 7.3.2 The Carbon Cycle		Lesson 1: 8.2.3 – Specialised cells (Bacteria and protists)		Lesson 1: 7.3.1 Global Warming Lesson 2: 7.3.2 The Carbon Cycle Lesson 3: 7.3.3 Climate Change		Lesson 1: 7.3.2 The Carbon Cycle		Lesson 1: 1.4.1 Pressure in gases Lesson 2: 1.4.2 Pressure in liquids	
Key Words	Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces		Identify, describe, explain Carbon Dioxide, radiation, wavelength, pollution, renewable, non-renewable		Identify, describe, explain Differentiated, nucleus, cytoplasm, cell membrane, cell wall, flagella, capsule		Identify, describe, explain Carbon Dioxide, radiation, wavelength, pollution, renewable, non-renewable		Identify, describe, explain Carbon Dioxide, radiation, wavelength, pollution, renewable, non-renewable		Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces	
Common Misconceptions	Types of resistance (drag particularly). Weight and mass being the same. Plastic is a material and not a property (plastic deformation is when a material does not return to its original shape).		Climate change sceptics		That only plant and animal cells specialise		Climate change sceptics		Climate change sceptics		Types of resistance (drag particularly). Weight and mass being the same. Plastic is a material and not a property (plastic deformation is when a material does not return to its original shape).	
Homework	Kerboodle task suitable to ability of group.		Kerboodle task suitable to ability of group.		Kerboodle task suitable to ability of group.		Kerboodle task suitable to ability of group.		Kerboodle task suitable to ability of group.		Kerboodle task suitable to ability of group.	
Assessment this half-term	6 mark in class question		6 mark in class question		6 mark in class question		w/b 22 nd May – 7b Earth test		6 mark in class question		6 mark in class question	
Career opportunities Employment Links	LIFE SKILLS: Understanding of how forces act upon objects EMPLOYMENT: Manual handling, material scientist, civil engineer		LIFE SKILLS: Understanding how carbon moves through the environment EMPLOYMENT: Climatologist		LIFE SKILLS: Understanding the roles for different types of cells EMPLOYMENT: Cellular biologist		LIFE SKILLS: Understanding how carbon moves through the environment EMPLOYMENT: Climatologist		LIFE SKILLS: Understanding how carbon moves through the environment EMPLOYMENT: Climatologist		LIFE SKILLS: Understanding of how forces act upon objects EMPLOYMENT: Manual handling, material scientist, civil engineer	
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework		IT2: Kerboodle homework		IT2: Kerboodle homework		IT2: Kerboodle homework		IT2: Kerboodle homework		IT2: Kerboodle homework	
	X1 (DHN)		X1 (CRE)		X1 (JAD)		X2/X3/X5		X4 (AEC)		X4 (SMS)	
Week 32 (w/b 15th May)	Lesson 1: 1.4.1 Pressure in gases		Lesson 1: 7.3.3 Climate Change		Lesson 1: 9.1.3 – Ecosystems: Decomposers		Lesson 1: 7.4.1 Extracting Metals – CuO practical Lesson 2: 7.4.1 Extracting Metals – Ox and Red Lesson 3: 7.4.2 Recycling		Lesson 1: 7.3.3 Climate Change		Lesson 1: 1.4.3 Stress on solids – stiletto heel practical Lesson 2: 1.4.3 Stress on solids – stiletto heel practical	
Key Words	Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces		Identify, describe, explain Carbon Dioxide, radiation, wavelength, pollution, renewable, non-renewable		Identify, describe, explain Ecosystem, nutrient, decomposer, detritivore, digest		Identify, describe, explain Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition, transportation, oxidation, reduction, reactivity, displacement		Identify, describe, explain Carbon Dioxide, radiation, wavelength, pollution, renewable, non-renewable		Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces	

Summer 2	Year 9					
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (AEC)	X4 (SMS)
Week 34 (w/b 5 th Jun)	Lesson 1: 1.4.3 Stress on solids	Lesson 1: 7.4.2 Recycling	Lesson 1: Review 9.4 - Photosynthesis	Lesson 1: 1.3.1 Friction and drag Lesson 2: 1.3.1 Friction and drag Lesson 3: 1.3.1 Friction and drag	Lesson 1: 7.4.2 Recycling	Lesson 1: 1b Forces Test Lesson 2: Exemplars/Feedback
Key Words Level 2 Level 3	Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces	Identify, describe, explain Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition, transportation, oxidation, reduction, reactivity, displacement, reduce, reuse, recycle	Identify, describe, explain Unit specific keywords taken from HT1-5 plans	Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces	Identify, describe, explain Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition, transportation, oxidation, reduction, reactivity, displacement, reduce, reuse, recycle	Identify, describe, explain
Common Misconceptions	Types of resistance (drag particularly). Weight and mass being the same. Plastic is a material and not a property (plastic deformation is when a material does not return to its original shape).	Everything can be recycled	Identified through active questioning	Types of resistance (drag particularly). Weight and mass being the same. Plastic is a material and not a property (plastic deformation is when a material does not return to its original shape).	Everything can be recycled	Identified from assessment
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	w/b 26 th June – 1b Forces Online test – w/b 3 rd July End of year tests	Online test – w/b 3 rd July End of year tests	w/b 19 th June – Earth Online test – w/b 3 rd July End of year tests	w/b 3 rd July – 1b Forces Online test – w/b 3 rd July End of year tests	w/b 19 th June – Earth Online test – w/b 3 rd July End of year tests	w/b 5 th June – 1b Forces Online test – w/b 3 rd July End of year tests
Career opportunities Employment Links	LIFE SKILLS: Understanding of how forces act upon objects EMPLOYMENT: Manual handling, material scientist, civil engineer	LIFE SKILLS: Understanding how to recycle EMPLOYMENT: Climatologist	LIFE SKILLS: Understanding what plants need to grow EMPLOYMENT: Horticulture, agriculture, forestry, farming	LIFE SKILLS: Understanding of how forces act upon objects EMPLOYMENT: Manual handling, material scientist, civil engineer	LIFE SKILLS: Understanding how to recycle EMPLOYMENT: Climatologist	LIFE SKILLS: Understanding of how forces act upon objects EMPLOYMENT: Manual handling, material scientist, civil engineer
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (AEC)	X4 (SMS)
Week 35 (w/b 12 th Jun)	Lesson 1: 1.4.3 Stress on solids – stiletto heel practical	Lesson 1: Revision	Lesson 1: Review 9.3 - Respiration	Lesson 1: 1.3.2 Squashing and stretching Lesson 2: 1.3.2 Squashing and stretching – Hooke's Law practical Lesson 3: 1.3.2 Squashing and stretching – Hooke's Law analysis and evaluation	Lesson 1: Revision	Lesson 1: 8.2.5 Unicellular organisms Lesson 2: 8.2.3 – Specialised cells (Bacteria and protists)
Key Words Level 2 Level 3	Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces	Identify, describe, explain Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition, transportation, oxidation, reduction, reactivity, displacement, reduce, reuse, recycle	Identify, describe, explain Unit specific keywords taken from HT1-5 plans	Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces	Identify, describe, explain Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition, transportation, oxidation, reduction, reactivity, displacement, reduce, reuse, recycle	Identify, describe, explain Unicellular, cytoplasm, cell membrane, DNA, mitochondria, ribosomes, differentiated, nucleus, cell wall, flagella, capsule

	Presenting Problem solving Staying positive Teamwork	Presenting Problem solving Staying positive Teamwork	Presenting Problem solving Staying positive Teamwork	Presenting Problem solving Staying positive Teamwork	Presenting Problem solving Staying positive Teamwork	Presenting Problem solving Staying positive Teamwork
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (AEC)	X4 (SMS)
Week 37 (w/b 26th Jun)	Lesson 1: 1b Forces Test	Lesson 1: Exemplars/Feedback	Lesson 1: Review 10.4 - Inheritance	Lesson 1: 1.4.3 Stress on solids – stiletto heel practical Lesson 2: 1.4.3 Stress on solids – stiletto heel practical Lesson 3: 1.4.3 Stress on solids – stiletto heel practical	Lesson 1: Exemplars/Feedback	Lesson 1: Review 9.4 - Photosynthesis Lesson 2: Review 9.3 - Respiration
Key Words Level 2 Level 3	Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces	Identify, describe, explain	Identify, describe, explain Unit specific keywords taken from HT1-5 plans	Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces	Identify, describe, explain	Identify, describe, explain Unit specific keywords taken from HT1-5 plans
Common Misconceptions	Identified from assessment	Identified from assessment	Identified through active questioning	Types of resistance (drag particularly). Weight and mass being the same. Plastic is a material and not a property (plastic deformation is when a material does not return to its original shape).	Identified from assessment	Identified through active questioning
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	w/b 26 th June – 1b Forces Online test – w/b 3 rd July End of year tests	Online test – w/b 3 rd July End of year tests	Online test – w/b 3 rd July End of year tests	w/b 3 rd July – 1b Forces Online test – w/b 3 rd July End of year tests	Online test – w/b 3 rd July End of year tests	Online test – w/b 3 rd July End of year tests
Career opportunities Employment Links	LIFE SKILLS: Understanding of how forces act upon objects EMPLOYMENT: Manual handling, material scientist, civil engineer	LIFE SKILLS: Resilience and organisation EMPLOYMENT: Research scientist, science teacher	LIFE SKILLS: Understanding how characteristics are inherited EMPLOYMENT: Geneticist	LIFE SKILLS: Understanding of how forces act upon objects EMPLOYMENT: Manual handling, material scientist, civil engineer	LIFE SKILLS: Resilience and organisation EMPLOYMENT: Research scientist, science teacher	LIFE SKILLS: Understanding how 'food' is used in plants and animals EMPLOYMENT: Zoologist
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (AEC)	X4 (SMS)
Week 38 (w/b 3rd July)	Lesson 1: Exemplars	Lesson 1: Online Test	Lesson 1: Review catch up unit (8.2.5/8.2.3/9.1.3)	Lesson 1: 1b Forces Test Lesson 2: Exemplars Lesson 3: Online test	Lesson 1: Online Test	Lesson 1: Review 10.3 - Evolution Lesson 2: Review 10.4 - Inheritance
Key Words Level 2 Level 3	Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces	Identify, describe, explain Unit specific keywords taken from HT1-5 plans	Identify, describe, explain Unit specific keywords taken from HT1-5 plans	Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces	Identify, describe, explain Unit specific keywords taken from HT1-5 plans	Identify, describe, explain Unit specific keywords taken from HT1-5 plans

Common Misconceptions	Identified from assessment	Identified from assessment	Identified through active questioning	Identified from assessment	Identified from assessment	Identified through active questioning
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	Online test – w/b 3 rd July End of year tests	Online test – w/b 3 rd July End of year tests	Online test – w/b 3 rd July End of year tests	w/b 3 rd July – 1b Forces Online test – w/b 3 rd July End of year tests	Online test – w/b 3 rd July End of year tests	Online test – w/b 3 rd July End of year tests
Career opportunities Employment Links	LIFE SKILLS: Understanding of how forces act upon objects EMPLOYMENT: Manual handling, material scientist, civil engineer	LIFE SKILLS: Resilience and organisation EMPLOYMENT: Research scientist, science teacher	LIFE SKILLS: Resilience and organisation EMPLOYMENT: Research scientist, science teacher	LIFE SKILLS: Understanding of how forces act upon objects EMPLOYMENT: Manual handling, material scientist, civil engineer	LIFE SKILLS: Resilience and organisation EMPLOYMENT: Research scientist, science teacher	LIFE SKILLS: Understanding how characteristics are inherited EMPLOYMENT: Geneticist
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (AEC)	X4 (SMS)
Week 39 (w/b 10th July)	Lesson 1: Feedback	Lesson 1: End of KS3 revision/test	Lesson 1: End of KS3 test	Lesson 1: 8.2.5 Unicellular organisms Lesson 2: 8.2.3 – Specialised cells (Bacteria and protists) Lesson 3: 9.1.3 – Ecosystems: Decomposers	Lesson 1: End of KS3 revision/test	Lesson 1: Review catch up unit (8.2.5/8.2.3/9.1.3) Lesson 2: End of KS3 test
Key Words Level 2 Level 3	Identify, describe, explain Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight, compress, elastic limit, extension, Hooke's law, proportional, spring, lubricant, pascal, pressure, balanced forces, stationary, unbalanced forces	Identify, describe, explain Unit specific keywords taken from HT1-5 plans	Identify, describe, explain Unit specific keywords taken from HT1-5 plans	Identify, describe, explain Unicellular, cytoplasm, cell membrane, DNA, mitochondria, ribosomes, differentiated, nucleus, cell wall, flagella, capsule, ecosystem, nutrient, decomposer, detritivore, digest	Identify, describe, explain Unit specific keywords taken from HT1-5 plans	Identify, describe, explain Unit specific keywords taken from HT1-5 plans
Common Misconceptions	Identified from assessment	Identified from assessment	Identified from assessment	That only worms are decomposers	Identified from assessment	Identified through active questioning
Homework	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	End of year tests	End of year tests	End of year tests	End of year tests	End of year tests	End of year tests
Career opportunities Employment Links	LIFE SKILLS: Understanding of how forces act upon objects EMPLOYMENT: Manual handling, material scientist, civil engineer	LIFE SKILLS: Resilience and organisation EMPLOYMENT: Research scientist, science teacher	LIFE SKILLS: Resilience and organisation EMPLOYMENT: Research scientist, science teacher	LIFE SKILLS: Understanding how compost bins work EMPLOYMENT: Ecologist	LIFE SKILLS: Resilience and organisation EMPLOYMENT: Research scientist, science teacher	LIFE SKILLS: Resilience and organisation EMPLOYMENT: Research scientist, science teacher
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework	IT2: Kerboodle homework
	X1 (DHN)	X1 (CRE)	X1 (JAD)	X2/X3/X5	X4 (AEC)	X4 (SMS)
Week 340 (w/b 17th July)	Lesson 1: End of year Test	Lesson 1: End of KS3 revision/test	Lesson 1: Exemplars	Lesson 1: 9.1.3 – Ecosystems: Carbon cycle	Lesson 1: End of KS3 revision/test	Lesson 1: Exemplars Lesson 2: Feedback

