Autumn 1	Year 8
	A1/A2/A3/B1/B2/B3
Week 1 (w/b Wed 7 th Sep)	Lesson 1-3: Working scientifically - Ecology
Key Words Level 2 Level 3	Independent, dependent, control, hypothesis, prediction, conclusion, evaluation, random, bias Quadrat, biodiversity, transect, qualitative
Common Misconceptions	All species require the exact same conditions for survival
Homework	Kerboodle task suitable to ability of group
Assessment this half-term	3b Energy Test
Career opportunities Employment Links	LIFE SKILLS: Understanding what can impact levels of biodiversity EMPLOYMENT: DEFRA, farming, forestry, Environment Agency
Employability Skills	Aiming high <mark>Literacy</mark> Creativity <mark>Numeracy</mark> Leadership Independence Listening Communication <mark>Presenting Teamwork</mark> Problem solving Staying positive
IT Skills	IT1 & IT2: Using google for research and cameras to photograph practical work for final reports
Week 2 (w/b 12 th Sep)	Lesson 1-3: Working scientifically - Ecology
Key Words Level 2 Level 3	Independent, dependent, control, hypothesis, prediction, conclusion, evaluation, random, bias Quadrat, biodiversity, transect, qualitative
Common Misconceptions	All species require the exact same conditions for survival
Homework	Kerboodle task suitable to ability of group
Assessment this half-term	3b Energy Test
Career opportunities Employment Links	LIFE SKILLS: Understanding what can impact levels of biodiversity EMPLOYMENT: DEFRA, farming, forestry, Environment Agency
Employability Skills	Aiming high <mark>Literacy</mark> Creativity <mark>Numeracy</mark> Leadership Independence Listening Communication <mark>Presenting Teamwork</mark> Problem solving Staying positive
IT Skills	IT1 & IT2: Using google for research and cameras to photograph practical work for final reports
Week 3 (w/b 19 th Sep)	Lesson 1-3: Working scientifically - Ecology
Key Words Level 2 Level 3	Independent, dependent, control, hypothesis, prediction, conclusion, evaluation, random, bias Quadrat, biodiversity, transect, qualitative
Common Misconceptions	All species require the exact same conditions for survival
Homework	Kerboodle task suitable to ability of group
Assessment this half-term	3b Energy Test
Career opportunities	LIFE SKILLS: Understanding what can impact levels of biodiversity
Employment Links	EMPLOYMENT: DEFRA, farming, forestry, Environment Agency
Employability Skills	Aiming high <mark>Literacy</mark> Creativity <mark>Numeracy</mark> Leadership Independence Listening Communication <mark>Presenting Teamwork</mark> Problem solving Staying positive
IT Skills	IT1 & IT2: Using google for research and cameras to photograph practical work for final reports
Week 4	Lesson 1: 3.3.1 – Work, Energy, Machines; levers, pulleys, see-saws
(w/b 26 th Sep)	Lesson 2: 3.3.1 - Work, Energy, Machines; W = Fxd
	Lesson 3: 3.3.1 - Work, Energy, Machines; W = Fxd

Key Words	Identify, control, explain, compare
Level 2	Work, lever, gear, force, Newton
Level 3	
Common Misconceptions	For lesson 2/3 ensure pupils set calculations out correctly (State equation, state calculation, state answer with unit).
Homework	Kerboodle task suitable to ability of group.
Assessment this half-term	3b Energy Test
Career opportunities	LIFE SKILLS: Understand how to create levers to move objects
Employment Links	EMPLOYMENT: https://www.iop.org/infinity-and-beyond-space-system-engineer
Employability Skills	Aiming high Literacy Creativity <mark>Numeracy</mark> Leadership Independence Listening Communication Presenting Teamwork
	Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Maria I. E	L
Week 5	Lesson 1: 3.4.1 – Energy & Temp
(w/b 3 rd Oct)	Lesson 2: 3.4.2 - Energy Transfer; Conduction
Key Words	Lesson 3: 3.4.2 - Energy Transfer; Convection Identify, control, explain, compare
Key Words Level 2	Radiation, conduction, convection, insulation, diffusion, thermometer, Energy, Joule, Celsius, Kelvin
Level 3	nation, considerion, convection, manualon, uncombineter, energy, Jouie, ceisius, keivin
Common Misconceptions	Radiation being dangerous (it's just a form of energy transfer).
Common Wisconceptions	Insulation keeps the cold in (it really keeps the heat out).
	Temperature and internal energy are the same (they're not)
Homework	Kerboodle task suitable to ability of group.
Assessment this half-term	3b Energy Test
Career opportunities	LIFE SKILLS: Understanding how radiators and boilers work
Employment Links	EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics
Frankrich : Chille	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Week 6	Lesson 1: 3.4.3 – Energy Transfer; Radiation
(w/b 10 th Oct)	Lesson 2: 3.4.3 – Energy Transfer; Insulation experiment
	Lesson 3: 3.4.3 – Energy Transfer; Insulation experiment
Key Words	Identify, control, explain, compare
Level 2	Radiation, conduction, convection, insulation, diffusion, thermometer, Energy, Joule, Celsius, Kelvin
Level 3	
Common Misconceptions	Radiation being dangerous (it's just a form of energy transfer).
	Insulation keeps the cold in (it really keeps the heat out).
	Temperature and internal energy are the same (they're not)
Homework	Kerboodle task suitable to ability of group.
Homework	Refusionic task suitable to ability of group.
Accessment this half town	
Assessment this half-term	3b Energy Test
	3b Energy Test LIFE SKILLS: Understand how to keep things warm
Career opportunities Employment Links	3b Energy Test LIFE SKILLS: Understand how to keep things warm EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics
Career opportunities	LIFE SKILLS: Understand how to keep things warm
Career opportunities	LIFE SKILLS: Understand how to keep things warm EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork
Career opportunities Employment Links Employability Skills	LIFE SKILLS: Understand how to keep things warm EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive
Career opportunities Employment Links	LIFE SKILLS: Understand how to keep things warm EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork
Career opportunities Employment Links Employability Skills IT Skills	LIFE SKILLS: Understand how to keep things warm EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive IT2: Kerboodle homework
Career opportunities Employment Links Employability Skills IT Skills Week 7	LIFE SKILLS: Understand how to keep things warm EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive IT2: Kerboodle homework Lesson 1: 3b Energy Test
Career opportunities Employment Links Employability Skills IT Skills	LIFE SKILLS: Understand how to keep things warm EMPLOYMENT: https://www.iop.org/light-fantastic-senior-programme-manager-photonics Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive IT2: Kerboodle homework

Key Words Level 2 Level 3	
Common Misconceptions	Identified from assessment
Homework	Kerboodle task suitable to ability of group.
Assessment this half-term	3b Energy Test
Career opportunities	LIFE SKILLS: Resilience
Employment Links	EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/outreach-diversity
Employability Skills	Aiming high Literacy Creativity <mark>Numeracy</mark> Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive
IT Skills	IT2: Kerboodle homework

Autumn 2	Year 8
	A1/A2/A3/B1/B2/B3
Week 8	Lesson 1: 7.1.1 Structure of the Earth
(w/b 31 st Oct)	Lesson 2: 7.1.2 Sedimentary
	Lesson 3: 7.1.3 Igneous & Metamorphic
Key Words	Identify, describe, explain
Level 2	Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition,
Level 3	transportation
Common Misconceptions	Creationism v big bang
Homework	Kerboodle task suitable to ability of group.
Assessment this half-term	W/b 28 th Nov – 7b Earth Test
Career opportunities	LIFE SKILLS: Understanding how the Earth was formed
Employment Links	EMPLOYMENT: Geologist
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Week 9	Lesson 1: 7.1.4 The Rock Cycle
(w/b 7 th Nov)	Lesson 2: 7.1.4 The Rock Cycle
(W/ B / 140V)	Lesson 3: 7.1.5 Ceramics
Key Words	Identify, describe, explain
Level 2	Mantle, crust, inner/outer core, diameter, radius, crystal/crystallisation, grain size, layers, fossils, sedimentation, extrusive, intrusive, weathering, erosion, deposition,
Level 3	transportation
Common Misconceptions	Fossils are found in all rocks
Homework	Kerboodle task suitable to ability of group.
Assessment this half-term	W/b 28 th Nov – 7b Earth Test
Career opportunities	LIFE SKILLS: Understanding how to make ceramics
Employment Links	EMPLOYMENT: Geologist
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Week 10	Lesson 1: 7.3.1 global Warming
(w/b 14 th Nov)	Lesson 2: 7.3.1 Global Warming

	Lesson 3: 7.3.2 The Carbon Cycle
Key Words	Identify, describe, explain
Level 2	Carbon Dioxide, radiation, wavelength, pollution, renewable, non-renewable
Level 3	
Common Misconceptions	Climate sceptics
Homework	Kerboodle task suitable to ability of group.
Assessment this half-term	W/b 28 th Nov – 7b Earth Test
Career opportunities	LIFE SKILLS: Understanding the causes and effects of global warming
Employment Links	EMPLOYMENT: Climatologist
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork
	Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Week 11	Lesson 1: 7.3.3 Climate Change
(w/b 21 st Nov)	Lesson 2: 7.4.1 Extracting Metals
	Lesson 3: 7.4.2 Recycling
Key Words	Identify, describe, explain
Level 2	Carbon Dioxide, radiation, wavelength, pollution, renewable, non-renewable, oxidation, reduction, reduce, reuse, recycle
Level 3	
Common Misconceptions	Climate sceptics
Homework	Kerboodle task suitable to ability of group.
Assessment this half-term	W/b 28 th Nov – 7b Earth Test
Career opportunities	LIFE SKILLS: Understanding what and how to recycle
Employment Links	EMPLOYMENT: Climatologist
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening <mark>Communication</mark> Presenting Teamwork
	Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Notes/developments	Lesson 1:
/standardisation comments	Lesson 2:
	Lesson 3: Earth and atmosphere: Earth as a source of limited resources and the efficacy of recycling
Wash 42	Leave 4. 7h Forth Tork
Week 12	Lesson 1: 7b Earth Test
(w/b 28 th Nov)	Lesson 2: Feedback/Exemplars
March Manuela	Lesson 3: Feedback/Exemplars
Key Words	Identify, describe, explain, compare, evaluate
Level 2	
Level 3	Identified from assessment
Common Misconceptions	
Homework	Kerboodle task suitable to ability of group.
Accessment this half tarm	W/b 28 th Nov – 7b Earth Test
Assessment this half-term	W/D ZO INOV — /D Editil lest
Career enportunities	LIFE SKILLS: Resilience
Career opportunities Employment Links	EMPLOYMENT: Climatologist
Limployment Links	LIVIT LOTIVILIVI. CIIITIALOIOGISL
Employability Skills	Aiming high Literacy Creativity <mark>Numeracy</mark> Leadership <mark>Independence</mark> Listening <mark>Communication</mark> Presenting Teamwork
Limployability Skills	Problem solving Staying positive
IT Skills	IT2: Kerboodle homework

Week 13	Lesson 1: 9.1.1 Food chains and food webs
(w/b 5 th Dec)	Lesson 2: 9.1.2 Disruption to food chains and webs
, , ,	Lesson 3: 9.2.1 Flowers and pollination
Key Words	Identify, describe, explain, relationship
Level 2	Organism, species, herbivore, carnivore, omnivore, predator, prey, pollination, bioaccumulation, population
Level 3	
Common Misconceptions	Students often draw the arrows in the wrong direction
Homework	Kerboodle task suitable to ability of group
Assessment this half-term	6 mark question in class
Career opportunities	LIFE SKILLS: Understanding how food webs can be affected by hunting or invasive species
Employment Links	EMPLOYMENT: Horticulture, agriculture, zoologist
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Notes/developments	
/standardisation comments	
Week 14	Lesson 1: 9.2.1 Flowers and pollination – plant dissection
(w/b 12 th Dec)	Lesson 2 & 3: 9.2.2 Fertilisation and germination – review seedlings practical
Key Words	Identify, describe, explain
Level 2 Level 3	Fertilisation, germination, pollination, anther, stigma, pollen, ovum
Common Misconceptions	That pollination and germination is the same thing
Homework	Kerboodle task suitable to ability of group
Assessment this half-term	6 mark question in class
Career opportunities	LIFE SKILLS: Understanding how plants reproduce
Employment Links	EMPLOYMENT: Horticulturist, agriculture, forestry
Employability Skills	Aiming high <mark>Literacy Creativity</mark> Numeracy Leadership Independence Listening <mark>Communication</mark> Presenting <mark>Teamwork</mark> Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Week 15	Lesson 1: 9.2.3 Seed dispersal
(w/b 19 th Dec)	Lesson 2: Review section
	Lesson 3: X
Key Words	Identify, describe, explain
Level 2	Reproduction, dispersal, independent variable, dependent variable, control variable
Level 3	
Common Misconceptions	That only wind disperses seeds
Homework	Kerboodle task suitable to ability of group
Assessment this half-term	6 mark question in class
Career opportunities	LIFE SKILLS: Understanding how plants reproduce
Employment Links	EMPLOYMENT: Horticulturist, agriculture, forestry
Employability Skills	Aiming high <mark>Literacy Creativity Numeracy</mark> Leadership Independence Listening <mark>Communication</mark> Presenting <mark>Teamwork</mark> Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
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Spring 1	Year 8
	A1/A2/A3/B1/B2/B3
Week 16 (w/b Wed 4 th Jan)	Lesson 1-3: Review plant reproduction and independence
Key Words	Identify, describe, explain
Level 2 Level 3	Organism, species, herbivore, carnivore, omnivore, predator, prey, pollination, bioaccumulation, population, fertilisation, germination, pollination, anther, stigma, pollen, ovum
Common Misconceptions	That plants don't reproduce sexually
Homework	Kerboodle task suitable to ability of group
Assessment this half-term	w/b 16^{th} Jan – 9a Independence and plant reproduction (to include Qs from 10a Variation) w/b 6^{th} Feb – 2b Electromagnets test
Career opportunities	LIFE SKILLS: Understanding how plants reproduce
Employment Links	EMPLOYMENT: Horticulture, farming, agriculture, forestry
Employability Skills	Aiming high <mark>Literacy</mark> Creativity Numeracy Leadership Independence <mark>Listening Communication</mark> Presenting Teamwork Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Notes/developments /standardisation comments	* Groups may not have full x3 complement due to mid-week start back
Week 17	Lesson 1: 10.1.1 Variation
(w/b 9 th Jan)	Lesson 2: 10.1.2 Continuous and discontinuous variation – height v arm span prac Lesson 3: 10.1.3 Adapting to change
Key Words	Identify, describe, explain
Level 2	Organism, species, herbivore, carnivore, omnivore, predator, prey, pollination, bioaccumulation, population, fertilisation, germination, pollination, anther, stigma, pollen, ovum,
Level 3	variation, genetic, environmental, adaptation
Common Misconceptions	That variation is either genetic or from the environment not both
Homework	Kerboodle task suitable to ability of group
Assessment this half-term	w/b 16^{th} Jan $-$ 9a Independence and plant reproduction (to include Qs from 10a Variation) w/b 6^{th} Feb $-$ 2b Electromagnets test
Career opportunities	LIFE SKILLS: Understanding what makes us different from one another
Employment Links	EMPLOYMENT: Evolutionary biologist, behaviourist, zoologist
Employability Skills	Aiming high Literacy Creativity <mark>Numeracy</mark> Leadership Independence Listening <mark>Communication</mark> Presenting Teamwork Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Week 18	Lesson 1: Test
(w/b 16 th Jan)	Lesson 2: Test feedback Lesson 3: Test feedback
Key Words	Identify, describe, explain, compare, evaluate
Level 2	Organism, species, herbivore, carnivore, omnivore, predator, prey, pollination, bioaccumulation, population, fertilisation, germination, pollination, anther, stigma, pollen, ovum,
Level 3	variation, genetic, environmental, adaptation
Common Misconceptions	Identified from assessment
Homework	Kerboodle task suitable to ability of group
Assessment this half-term	w/b 16 th Jan – 9a Independence and plant reproduction (to include Qs from 10a Variation) w/b 6 th Feb – 2b Electromagnets test
Career opportunities	LIFE SKILLS: Resilience and organisation
Employment Links	EMPLOYMENT: Research scientist, biomedical scientist, doctor, nurse
Employability Skills	Aiming high Literacy Creativity <mark>Numeracy</mark> Leadership <mark>Independence</mark> Listening <mark>Communication</mark> Presenting Teamwork Problem solving Staying positive
IT Skills	IT2: Kerboodle homework

Week 19	Lesson 1: 2.4.1 - Electromagnets
(w/b 23 rd Jan)	Lesson 2: 2.4.1 – Electromagnets (Practical)
	Lesson 3: 2.4.1 - Electromagnets (Analysis and evaluation)
Key Words	Identify, describe, explain
Level 2	Attract, gravitational field, magnetic field, mass, non-contact, repel, weight, electric field, electrons, negative, positive, nucleus, static, ammeter, current, parallel, series, voltage, voltmeter,
Level 3	resistance, ohm, motor, electromagnet, motor effect, relay,
Common Misconceptions	Mass and weight are the same.
	Forcefields stop or block something.
	Electrons aren't transferred on their own when statically charging an object.
	Magnets only attract. All metals are magnetic.
Homework	Activelearn task suitable to ability of group.
Homework	Active earli task suitable to ability of group.
Assessment this half-term	w/b 6 th Feb – 2b Electromagnets test
Career opportunities	LIFE SKILLS: Understanding how magnets work and their everyday uses
Employment Links	EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/section-leader
Employability Skills	Aiming high Literacy Creativity <mark>Numeracy</mark> Leadership Independence Listening Communication Presenting Teamwork
. , ,	Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Week 20	Lesson 1: 2.4.2 - Using Electromagnets (circuit breakers)
(w/b 30 th Jan)	Lesson 2: 2.4.2 - Using Electromagnets (loudspeakers)
	Lesson 3: 2.4.2 - Using Electromagnets (electric bell)
Key Words	Identify, describe, explain
Level 2	Attract, gravitational field, magnetic field, mass, non-contact, repel, weight, electric field, electrons, negative, positive, nucleus, static, ammeter, current, parallel, series, voltage, voltmeter,
Level 3	resistance, ohm, motor, electromagnet, motor effect, relay,
Common Misconceptions	Mass and weight are the same.
	Forcefields stop or block something.
	Electrons aren't transferred on their own when statically charging an object. Magnets only attract.
	All metals are magnetic.
Homework	Activelearn task suitable to ability of group.
Assessment this half-term	w/b 6 th Feb – 2b Electromagnets test
Career opportunities	LIFE SKILLS: Understanding how magnets work and their everyday uses
Employment Links	EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/section-leader
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting <mark>Teamwork</mark>
	Problem solving Staying positive Staying positive
IT Skills	IT2: Kerboodle homework
Week 21	Lesson 1: 2b Electromagnets Test
(w/b 6 th Feb)	Lesson 2: Feedback
Kan Manda	Lesson 3: Exemplars
Key Words	Identify, describe, explain, compare, evaluate
Level 2 Level 3	Attract, gravitational field, magnetic field, mass, non-contact, repel, weight, electric field, electrons, negative, positive, nucleus, static, ammeter, current, parallel, series, voltage, voltmeter, resistance, ohm, motor, electromagnet, motor effect, relay,
Common Misconceptions	Identified from assessment
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Homework	Activelearn task suitable to ability of group.
Assessment this half-term	w/b 6 th Feb – 2b Electromagnets test
Career opportunities	LIFE SKILLS:
Employment Links	EMPLOYMENT: https://www.iop.org/careers-physics/your-future-with-physics/career-paths/section-leader
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Employability Skills	Aiming high Literacy Creativity <mark>Numeracy</mark> Leadership <mark>Independence</mark> Listening <mark>Communication</mark> Presenting Teamwork
	Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Week 22	Lesson 1: 5.3.1 Elements
(w/b 13 th Feb)	Lesson 2: 5.3.2 Atoms
	Lesson 3: 5.3.3 Compounds
Key Words	Identify, describe, explain
Level 2	Elements, compound, mixture, atom, metal, non-metal, property, Periodic Table
Level 3	
Common Misconceptions	Be clear about what the subscripts mean in chemical formulae, what a compound is, how to write symbol formulae (Capital letter then lower case, if there's a second in the
	elements symbol).
Homework	Kerboodle task suitable to ability of group.
Assessment this half-term	6 mark in class question
Career opportunities	LIFE SKILLS: Understanding how properties change when different elements are combined together
Employment Links	EMPLOYMENT: Physical chemist
Employability Skills	Aiming high Literacy Creativity <mark>Numeracy</mark> Leadership Independence Listening Communication Presenting Teamwork
	Problem solving Staying positive
IT Skills	IT2: Kerboodle homework

Spring 2	Year 8
	A1/A2/A3/B1/B2/B3
Week 23	Lesson 1: 5.3.4 Chemical Formulae – Meaning of subscripts in formulae
(w/b 27 th Feb)	Lesson 2: 5.3.4 Chemical Formulae – symbol equations
	Lesson 3: 5.3.5 Polymers
Key Words	Identify, describe, explain
Level 2 Level 3	Elements, compound, mixture, atom, metal, non-metal, property, Periodic Table, word equation, symbol equation, prefix, suffix
Common Misconceptions	Be clear about what the subscripts mean in chemical formulae, what a compound is, how to write symbol formulae (Capital letter then lower case, if there's a second in the elements symbol).
Homework	Kerboodle task suitable to ability of group.
Assessment this half-term	W/b 20 th Mar – 5b Matter Test
Career opportunities	LIFE SKILLS: Understanding how to represent equations with formulae
Employment Links	EMPLOYMENT: Physical chemist
Employability Skills	Aiming high Literacy Creativity <mark>Numeracy</mark> Leadership Independence Listening <mark>Communication</mark> Presenting Teamwork Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Notes/developments	Lesson 1-2: Atoms, elements and compounds: chemical symbols and formulae for elements and compounds
/standardisation comments	Lesson 3: Materials: properties of ceramics, polymers and composites (qualitative).
Week 24	Lesson 1: 5.4.1 The Periodic Table -Metals, non-metals, properties
(w/b 6 th Mar)	Lesson 2: 5.4.1 The Periodic Table – groups/periods
(W/ S C IVIAL)	Lesson 3: 5.4.2 Group 1
Key Words	Identify, describe, explain
Level 2 Level 3	Elements, compound, mixture, atom, metal, non-metal, property, Periodic Table, word equation, symbol equation, prefix, suffix, reactivity, alkali/alkaline, density, oxidation
Common Misconceptions	Be clear about what the subscripts mean in chemical formulae, what a compound is, how to write symbol formulae (Capital letter then lower case, if there's a second in the
	elements symbol).
Homework	Kerboodle task suitable to ability of group.

Assessment this half-term	W/b 20 th Mar – 5b Matter Test
Career opportunities	LIFE SKILLS: Understanding the uses for some metals
Employment Links	EMPLOYMENT: Physical chemist
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork
	Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Week 25	Lesson 1: 5.4.3 Group 7
(w/b 13 th Mar)	Lesson 2: 5.4.3 Group 7 – displacement reactions, equation writing, bit of balancing practice
	Lesson 3: 5.4.4 Group 0
Key Words	Identify, describe, explain
Level 2	Elements, compound, mixture, atom, metal, non-metal, property, Periodic Table, word equation, symbol equation, prefix, suffix, reactivity, alkali/alkaline, density, oxidation,
Level 3	halogen, noble gas, displacement
Common Misconceptions	Be clear about what the subscripts mean in chemical formulae, what a compound is, how to write symbol formulae (Capital letter then lower case, if there's a second in the
	elements symbol).
Homework	Kerboodle task suitable to ability of group.
Assessment this half-term	W/b 20 th Mar – 5b Matter Test
Career opportunities	LIFE SKILLS: Understanding why elements react in a certain way
Employment Links	EMPLOYMENT: Physical chemist
Employability Skills	Aiming high Literacy Creativity <mark>Numeracy</mark> Leadership Independence Listening <mark>Communication</mark> Presenting Teamwork
IT CLUL.	Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
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Week 26	Lesson 1: 5b Matter Test
(w/b 20 th Mar)	Lesson 2: Feedback/Exemplars
	Lesson 3: Feedback/Exemplars
Key Words	Identify, describe, explain
Level 2	Elements, compound, mixture, atom, metal, non-metal, property, Periodic Table, word equation, symbol equation, prefix, suffix, reactivity, alkali/alkaline, density, oxidation,
Level 3	halogen, noble gas, displacement
Common Misconceptions	Identified from assessment
Homework	Kerboodle task suitable to ability of group.
Assessment this half-term	W/b 20 th Mar – 5b Matter Test
Career opportunities	LIFE SKILLS: Resilience
Employment Links	EMPLOYMENT: Research scientist
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork
	Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Week 27	Lesson 1: 8.3.1 Gas exchange – Limewater and carbon dioxide prac
(w/b 27 th Mar)	Lesson 2: 8.3.2 Breathing – Bell jar demo & peak flow meters prac
	Lesson 3: 8.3.3 Drugs
Key Words	Identify, describe, explain
Level 2	Oxygen, carbon dioxide, lung, bronchi, trachea, alveoli, inhalation, exhalation, ventilation, breathing, medicinal, recreational
Level 3	
Common Misconceptions	That breathing and respiration are the same thing
Homework	Kerboodle task suitable to ability of group
Assessment this half-term	6 mark in class question
Career opportunities	LIFE SKILLS: Understanding how gases are exchanged in the lungs
Employment Links	EMPLOYMENT: Asthma nurse, personal trainer
Employability Skills	Aiming high Literacy Creativity <mark>Numeracy</mark> Leadership Independence <mark>Listening Communication</mark> Presenting Teamwork
	Problem solving Staying positive
IT Skills	IT2: Kerboodle homework

Summer 1	Year 8
	A1/A2/A3/B1/B2/B3
Week 28	Lesson 1: 8.3.4 - Alcohol
(w/b 17 th Apr)	Lesson 2: 8.3.5 - Smoking
-	Lesson 3: 8.4.1 - Nutrients
Key Words	Identify, describe, explain
Level 2	Nicotine, depressant, deficiency, Benedicts reagent, biuret, ethanol, malnutrition
Level 3	
Common Misconceptions	That drinking and smoking at a young age doesn't affect the body
Homework	Kerboodle task suitable to ability of group
Assessment this half-term	w/b 8 th May – 8b digestion and breathing test
Career opportunities	LIFE SKILLS: Understanding the effects of smoking and alcohol on the body
Employment Links	EMPLOYMENT: Counsellor, social worker, nnurse
Employability Skills	Aiming high <mark>Literacy</mark> Creativity <mark>Numeracy</mark> Leadership Independence Listening <mark>Communication</mark> Presenting Teamwork Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Week 29	Lesson 1: 8.4.2 – Food tests
(w/b 24 th Apr)	Lesson 2: 8.4.2 – Food tests
	Lesson 3: 8.4.3 – Unhealthy diets
Key Words	Identify, describe, explain
Level 2	Deficiency, Benedicts reagent, biuret, ethanol, malnutrition, digestion, oesophagus, pancreas, intestine, enzyme, denature, amylase, protease, lipase, active site, combustion
Level 3	
Common Misconceptions	That unhealthy diets only lead to obesity
Homework	Kerboodle task suitable to ability of group
Assessment this half-term	w/b 8 th May – 8b digestion and breathing test
Career opportunities	LIFE SKILLS: Understanding what food groups are in different foods
Employment Links	EMPLOYMENT: Food developer
Employability Skills	Aiming high <mark>Literacy</mark> Creativity <mark>Numeracy</mark> Leadership Independence Listening <mark>Communication</mark> Presenting Teamwork Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Week 30	Lesson 1: 8.4.4 – Digestive system
(w/b Tues 2 nd May)	Lesson 2: 8.4.5 – Bacteria and enzymes in digestion
	Lesson 3: 8.4.5 – Bacteria and enzymes in digestion
Key Words	Identify, describe, explain
Level 2 Level 3	Deficiency, Benedicts reagent, biuret, ethanol, malnutrition, digestion, oesophagus, pancreas, intestine, enzyme, denature, amylase, protease, lipase, active site, combustion
Common Misconceptions	That all bacteria have a negative impact
Homework	Kerboodle task suitable to ability of group
Assessment this half-term	w/b 8 th May – 8b digestion and breathing test
Career opportunities	LIFE SKILLS: Understanding how the digestive system works
Employment Links	EMPLOYMENT: Dietician, gastric surgeon
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork
	Problem solving Staying positive
IT Skills	IT2: Kerboodle homework
Week 31	Lesson 1: 8b – Digestion and breathing test
(w/b 8 th May)	Lesson 2: Exemplars
	Lesson 3: Feedback
Key Words	Identify, describe, explain, compare, evaluate
Level 2	Nicotine, depressant, deficiency, Benedicts reagent, biuret, ethanol, malnutrition, digestion, oesophagus, pancreas, intestine, enzyme, denature, amylase, protease, lipase, active
Level 3	site, combustion
Common Misconceptions	Identified from assessment
Homework	Kerboodle task suitable to ability of group
Assessment this half-term	w/b 8 th May – 8b digestion and breathing test

Career opportunities	LIFE SKILLS: Resilience and organisation									
Employment Links	EMPLOYMENT: Research scientist									
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive									
IT Skills	IT2: Kerboodle homework									
Week 32	Lesson 1: 4.1.1 Sound Waves and Speed									
(w/b 15 th May)	Lesson 2: 4.1.2 Loudness and Amplitude									
	Lesson 3: 4.1.3 Frequency and Pitch - oscilloscope									
Key Words	Identify, describe, explain									
Level 2	Oscilloscope, frequency, amplitude, pitch, wavelength, period									
Level 3										
Common Misconceptions	Relationship between frequency, period and wavelength									
Homework	Kerboodle task suitable to ability of group.									
Assessment this half-term	6 mark in class question									
Career opportunities	LIFE SKILLS: Hearing is easily damaged, how to take care of it									
Employment Links	EMPLOYMENT: Audiologist									
Employability Skills	Aiming high Literacy Creativity <mark>Numeracy</mark> Leadership Independence <mark>Listening</mark> Communication Presenting Teamwork Problem solving Staying positive									
IT Skills	IT2: Kerboodle homework									
Week 33	Lesson 1: 4.1.3 Frequency and Pitch – calculation of frequency									
(w/b 22 nd May)	Lesson 2: 4.1.4 – The ear and hearing - oscilloscope									
	Lesson 3: 4.1.4 – ear diagram and functions of parts thereof									
Key Words	Identify, describe, explain									
Level 2	Oscilloscope, frequency, amplitude, pitch, wavelength, period									
Level 3										
Common Misconceptions	Relationship between frequency, period and wavelength									
Homework	Kerboodle task suitable to ability of group.									
Assessment this half-term	6 mark in class question									
Career opportunities	LIFE SKILLS: Hearing is easily damaged, how to take care of it									
Employment Links	EMPLOYMENT: Audiologist									
Employability Skills	Aiming high Literacy Creativity <mark>Numeracy</mark> Leadership Independence <mark>Listening</mark> Communication Presenting Teamwork									
	Problem solving Staying positive									
IT Skills	IT2: Kerboodle homework									

Summer 2	Year 8						
	A1/A2/A3/B1/B2/B3						
Week 34	Lesson 1: 4.2.1 Light						
(w/b 5 th Jun)	Lesson 2: 4.2.1 Light						
	Lesson 3: 4.2.2 Reflection						
Key Words	Identify, describe, explain						
Level 2	Ray, path, reflect, absorb, shadow, translucent, transparent, opaque, specular, diffuse, total internal reflection, critical angle, dispersion,						
Level 3							
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.						
Homework	Kerboodle task suitable to ability of group.						
Assessment this half-term	w/b 26 th June – 4a Waves test						
	w/b 10 th July – End of year test						
Career opportunities	LIFE SKILLS: Understanding colour, lighting your home, use of camera						
Employment Links	EMPLOYMENT: Lighting engineer, electrician, fibre optic cable engineer						

Employability Skills	Aiming high Literac		Numeracy	Leadership	Independence	Listening	Communication	Presenting	Teamwork
IT Skills	Problem solving Stayin IT2: Kerboodle homework	g positive							
11 Julio	112. Kerboodie Homework								
Week 35	Losson 1, 4.2.2 Deflection								
	Lesson 1: 4.2.2 Reflection								
(w/b 12 th Jun)	Lesson 2: 4.2.3 Refraction								
	Lesson 3: 4.2.3 Refraction								
Key Words	Identify, describe, explain								
Level 2	Ray, path, reflect, absorb, shadow, translucent, transparent, opaque, specular, diffuse, total internal reflection, critical angle, dispersion,								
Level 3									
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)								
	Primary colours in Art and Science are the same) (They are Red, Green, Blue in science).								
Homework	They think an object gives off a colour instead of reflecting.								
	Kerboodle task suitable to ability of group.								
Assessment this half-term	w/b 26 th June – 4a Waves test								
	w/b 10 th July – End of yea								
Career opportunities	LIFE SKILLS: Understanding of								
Employment Links	EMPLOYMENT: Lighting engi								
Employability Skills	Aiming high Literac	-	Numeracy	Leadership	Independence	Listening	Communication	Presenting	Teamwork
17 CL 11.		g positive							
IT Skills	IT2: Kerboodle homework								
100									
Week 36	Lesson 1: 4.2.4 The eye ar								
(w/b 19 th Jun)	Lesson 2: 4.2.5 Colour - di	•							
	Lesson 3: 4.2.5 Colour - fil	ters							
Key Words	Identify, describe, explain								
Level 2	Ray, path, reflect, absorb, shadow, translucent, transparent, opaque, specular, diffuse, total internal reflection, critical angle, dispersion,								
Level 3									
Common MisconceptionsLight 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.									
Hamaniadi			ecting.						
Homework	Kerboodle task suitable to	, <u>, , , , , , , , , , , , , , , , , , </u>							
Assessment this half-term	w/b 26 th June – 4a Waves test								
	w/b 10 th July – End of yea								
Career opportunities	LIFE SKILLS: Understanding c								
Employment Links	EMPLOYMENT: Lighting engi		-						
Employability Skills	Aiming high Literac	-	Numeracy	Leadership	Independence	Listening	Communication	Presenting	Teamwork
IT CLUB.	-	g positive							
IT Skills	IT2: Kerboodle homework								
Week 37	Lesson 1: 4a Waves Test								
w/b 26 th Jun) Lesson 2: Exemplars									
	Lesson 3: Feedback								
, , , , ,									
Key Words	Identify, describe, explain	adow translusert trans	naront one	ocular diffusa bab	lintornal raftaction	oritical analysis	energion		
Level 2	Ray, path, reflect, absorb, shadow, translucent, transparent, opaque, specular, diffuse, total internal reflection, critical angle, dispersion,								
Level 3		1							
Common Misconceptions	Light doesn't travel in a strai	_		Short to 1					
	Primary colours in Art and So			siue in science).					
Hamawark	They think an object gives of		cullig.						
Homework Assessment this half town	Kerboodle task suitable to								
Assessment this half-term	w/b 26 th June – 4a Waves								
0	w/b 10 th July – End of yea								
Career opportunities	LIFE SKILLS: Understanding colour, lighting your home, use of camera								
Employment Links	EMPLOYMENT: Lighting engineer, electrician, fibre optic cable engineer								
Employability Skills	Aiming high Literac		Numeracy	Leadership	Independence	Listening	Communication	<u>Presenting</u>	Teamwork
	Problem solving Stayin	<mark>g positive</mark>							

IT Skills	IT2: Kerboodle homework								
W 100									
Week 38	Lesson 1: End of year test revision - Biology								
(w/b 3 rd July)	Lesson 2: End of year test revision – Chemistry								
	Lesson 3: End of year test revision – Physics								
Key Words	Identify, describe, explain, compare, contrast								
Level 2 Level 3	Subject specific keywords revisited								
Common Misconceptions	Identified from active questioning								
Homework	Kerboodle task suitable to ability of group.								
Assessment this half-term	4a Waves Test/End of year test								
Career opportunities	LIFE SKILLS: Resilience and organisation								
Employment Links	EMPLOYMENT: Science teacher								
Employability Skills	Aiming high Literacy Creativity <mark>Numeracy</mark> Leadership Independence Listening <mark>Communication Presenting</mark> Teamwork Problem solving Staying positive								
IT Skills	IT2: Kerboodle homework								
Week 39	Lesson 1: End of year test								
(w/b 10 th July)	Lesson 2: End of year test - Exemplars								
	Lesson 3: End of year test - Feedback								
Key Words	Identify, describe, explain, compare, contrast								
Level 2	Subject specific keywords revisited								
Level 3									
Common Misconceptions	Identified from assessment								
Homework	Kerboodle task suitable to ability of group.								
Assessment this half-term	4a Waves Test/End of year test								
Career opportunities	LIFE SKILLS: Resilience and organisation								
Employment Links	EMPLOYMENT: Science teacher								
Employability Skills	Aiming high Literacy Creativity <mark>Numeracy</mark> Leadership Independence Listening <mark>Communication Presenting</mark> Teamwork Problem solving Staying positive								
IT Skills	IT2: Kerboodle homework								
Notes/developments									
/standardisation comments									
Week 40	Lesson 1: End of year test - Feedback								
(w/b 17 th July)	Lesson 2: End of year test - Feedback								
	Lesson 3: End of year test - Feedback								
Key Words	Identify, describe, explain, compare, contrast								
Level 2	Subject specific keywords revisited								
Level 3									
Common Misconceptions	Identified from assessment								
Homework	Kerboodle task suitable to ability of group.								
Assessment this half-term	4a Waves Test/End of year test								
Career opportunities	LIFE SKILLS: Resilience and organisation								
Employment Links	EMPLOYMENT: Science teacher								
Employability Skills	Aiming high Literacy Creativity <mark>Numeracy</mark> Leadership Independence Listening <mark>Communication</mark> Presenting Teamwork Problem solving Staying positive								
IT Skills	IT2: Kerboodle homework								