

Year 8

2022/2023 Year 8 students will be following a slightly different route due to Covid changes and a change in teaching order. The route through is as follows:

Term 1: Respiration and photosynthesis, Sound and light

Term 2: Wave effects and wave properties, Breathing and digestion (finished in term 3)

Term 3: Breathing and digestion (continued from term 2), Magnets and electromagnetism

Term 4: Evolution and inheritance, Work, heating and cooling

Term 5: Climate and earth resources, Chemical energy and types of reaction

Term 1	Speed and pressure	<ol style="list-style-type: none"> 1. How do we measure speed? 2. How do we feel pressure? <p>w Speed and pressure SPEC.docx</p>	Lesson resources are available through google classrooms. Alternatively: Speed
	Periodic table and elements	<ol style="list-style-type: none"> 1. Using the periodic table to find metals and non-metals 2. Reactions of group 1 metals and water 3. Reactions of metals and non-metals <p>w Periodic table and elements SPEC.d...</p>	Lesson resources are available through google classrooms. Alternatively: The periodic table - The periodic table - KS3 Chemistry Revision
Term 2	Breathing and digestion	<ol style="list-style-type: none"> 1. Identify the organs in the digestive system and explain their functions. 2. To know the equation for respiration 3. Describe how the lungs are adapted <p>w Breathing and digestion SPEC.docx</p>	Lesson resources are available through google classrooms. Alternatively: BBC bitesize respiration
	Magnets and electromagnetism	<ol style="list-style-type: none"> 1. What are magnets? 2. How do magnetic fields interact? 3. What are electromagnets? <p>w Magnets and electromagnetism SPE...</p>	Lesson resources are available through google classrooms. Alternatively: BBC bitesize magnets
Term 3	Chemical energy and types of reaction	<ol style="list-style-type: none"> 1. Endothermic reactions 2. Exothermic reactions 3. Thermal decomposition <p>w Chemical energy and reactions SPE...</p>	Lesson resources are available through google classrooms. Alternatively: Reactions and temperature changes - Exothermic and endothermic reactions

	Respiration and photosynthesis	<ol style="list-style-type: none"> 1. What respiration is and why it is used 2. Know the equation for photosynthesis 3. Understand what a plant needs for healthy growth and how it obtains these things. <p>W Respiration and photosynthesis SPE...</p>	Lesson resources are available through google classrooms. Alternatively: BBC bitesize photosynthesis
Term 4	Work, heating and cooling	<ol style="list-style-type: none"> 1. What is work 2. How are heat and temperature linked 3. How is heat transferred <p>W Work, heating and cooling SPEC.docx</p>	BBC bitesize thermal energy
	Climate and earth resources	<ol style="list-style-type: none"> 1. Understand the early atmosphere and the atmosphere today 2. What causes global warming 3. What effects climate change can have <p>W Climate and Earths resources SPEC....</p>	Lesson resources are available through google classrooms. Alternatively: The Earth's atmosphere - The Earth - KS3 Chemistry Revision
Term 5	Evolution and inheritance	<ol style="list-style-type: none"> 1. To understand what variation means, describe what causes it. 2. To know what DNA and chromosomes are. 3. To understand how characteristics are inherited. <p>W Evolution and inheritance SPEC.docx</p>	Lesson resources available through google classrooms. Alternatively: BBC bitesize genetics BBC bitesize variation
	Wave effects and wave properties	<ol style="list-style-type: none"> 1. Volume and pitch 2. Sound systems 3. Transverse and longitudinal waves <p>W Wave effects and properties SPEC.d...</p>	Lesson resources are available through google classrooms. Alternatively: Light
Term 6	Revision for end of year test Intervention from end of year test		

	Skills based challenges		
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