

Science Curriculum Overview

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	<p>Living things and their habitats</p> <p><u>Cross Curricular Links:</u> KS3 & KS4 maths – addition, subtraction, division, multiplication, mode, median, average, graphs. DT – making bock heads PE – bleep tests, heart rates, training plans Visit to Bradford industrial museum</p> <p>RRSA- 3,6,24,27,28,29</p>	<p>Electricity Sustainable renewable energy.</p> <p><u>Cross Curricular Links:</u> KS3 & KS4 maths – collecting/presentation of data. DT – making bock heads PE – bleep tests, heart rates, training plans Visit to Bradford industrial museum</p> <p>RRSA- 3,6,24,27,28,29</p>	<p>Light Light pollution</p> <p><u>Cross Curricular Links:</u> Food tech – healthy food, diet Humanities – cold war Maths – Weight, maps, scale diagrams Citizenship – body image, health</p> <p>RRSA- 2,6,7,24,27,28,29,36</p>	<p>The circulatory system diet, drugs and lifestyle</p> <p><u>Cross Curricular Links:</u> PSHCE – fair trade/religion Maths – addition, fractions, division</p> <p>RRSA- 2,6,7,24,27,28,29</p>	<p>Variation Adaptions Fossils</p> <p><u>Cross Curricular Links:</u> Maths – addition, fractions, division PSCHE – caring for the environment ICT – Spread sheets</p> <p>RRSA- 2,6,7,24,27,28,29,36</p>	<p>Skeletons Themed projects</p> <p><u>Transition</u> Living and non-living Plants Materials <u>Cross Curricular Links</u> Humanities – Continents and environments <i>Material strength DT</i></p> <p>RRSA- 6,7,24,27,28,29</p>
8	<p>Forces and motion (Activate Phys 1)</p> <p><u>Cross Curricular Links:</u> Maths – graphs, addition, scale diagrams PSHCE - keeping safe</p> <p>RRSA- 3,6,24,27,28,29</p>	<p>Chemical reactions (Activate Chem 1)</p> <p><u>Cross Curricular Links:</u> Maths – addition, subtraction Humanities – capitalism Maths – Weight, maps, scale diagrams</p> <p>RRSA- 2,6,8,24,27,28,29</p>	<p>Ecosystems (Activate Bio 1)</p> <p><u>Cross Curricular Links:</u> Food tech – healthy food, diet Humanities – cold war Maths – Weight, maps, scale diagrams Citizenship – body image, health</p> <p>RRSA- 3,6,24,27,28,29</p>	<p>Energy (Activate Phys 1)</p> <p><u>Cross Curricular Links:</u> Maths – Weight, scale diagrams Humanities – cold war</p> <p>RRSA- 2,6,7,24,27,28,29</p>	<p>Matter (Activate Chem 1)</p> <p><u>Cross Curricular Links:</u> Humanities – money and inflation English – fantasy novels</p> <p>RRSA- 2,6,7,8,24,27,28,29</p>	<p>Matter The eye and vision Light experiments Lab skills</p> <p><u>Cross Curricular Links:</u> Food Technology – Advantages of eating seasonally PE- Performance and competitive sport</p> <p>RRSA- 2,6,7,8,24,27,28,29</p>
9	<p>Genes (Activate Bio 1)</p> <p><u>Cross Curricular Links:</u> Maths – data handling PE – bleep tests, heart rates, training plans</p>	<p>Earth (Activate Chem 1)</p> <p><u>Cross Curricular Links:</u> Maths – data handling Humanities – Art – painting, colours, pottery</p>	<p>Waves (Activate Phys 1)</p> <p><u>Cross Curricular Links:</u> <i>Humanities – cold war</i> English – fantasy novels</p>	<p>Organisms (Activate Bio 1)</p> <p><u>Cross Curricular Links:</u> Food Technology – Advantages of eating seasonally</p>	<p>Electromagnets (Activate Phys 1)</p> <p><u>Cross Curricular Links:</u> Food – obesity/BMI Careers – HIV presentation Sport – nutrition</p>	<p>Ecosystems (Activate Bio 1)</p> <p><u>Cross Curricular Links:</u> Food – obesity/BMI Citizenship – BP drilling oil/leaking/ NGO</p>

	RRSA-2,6,7,24,27,28,29	RRSA-6,8,12,24,27,28,29	RRSA-6,24,27,28,29	RRSA-2,3,4,6,9,17,24,26,27,28,29	RRSA-6,14,24,27,28,29,30	RE – religion and evolution (where we came from) RRSA-3,6,17,24,27,28,29
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KS3 Literacy Focus Key words pulled out of each topic – comprehensions and word search built into each unit Interactive lessons based on words – reinforcing key words as well as exam technique – slower pace than Y10

10	Genes (Activate Chem 2) <u>Cross Curricular Links:</u> <i>Citizenship– ethics/human rights Eng – ‘FACE’ – genetics, designer baby, facial injury</i> RRSA-6,24,27,28,29	Atomic structure and the periodic table (Activate Phys 2) <u>Cross Curricular Links:</u> Maths- data handling, scale, division and multiplication. RRSA-6,8,14,24,27,28,30	Reactions (Activate Chem 2) <u>Cross Curricular Links:</u> <i>Food – obesity/BMI English – speaking and listening</i> RRSA- 6,24,27,28	Energy and waves (Activate Phys 12) <u>Cross Curricular Links:</u> Maths- Quantities, graphs DT- materials PE- energy in food for training. RRSA- 4,6,17,24,27,28,29	Organisms (Activate Bio 2) <u>Cross Curricular Links:</u> Maths- Timing and data handling ICT- data logging English- describing difference RRSA-6,13,17,24,27,28,29	Earth (Activate Chem 2) <u>Cross Curricular Links:</u> DT- material Food tech- Cooling and heating, Viscosity. RRSA-6,12,13,14,24,27,28,29
11	Forces Electro mag (Activate Phys 2) <u>Cross Curricular Links:</u> Maths- Data handling, timing, measuring scales RRSA-12,13,17,24,27,28	Synergy unit 5 <u>Cross Curricular Links:</u> Citizenship – human rights, ethics Art – colours and patterns English – speaking and listening <i>Food – obesity/BMI Careers – HIV presentation Sport – nutrition</i> RRSA- 17,24,29	Synergy unit 8 <u>Cross Curricular Links:</u> Maths – area, volume, perimeter Citizenship – environmental law English – speaking and listening RRSA-17,24,29	Revision and practical. <u>Cross Curricular Links:</u> Maths – area, volume, perimeter Citizenship – environmental law English – speaking and listening RRSA-17,24,29		

KS4 Literacy Focus

Key words and understanding of wording in exam questions, Emphasis on long answer question, Exam technique