



Head of Department: Ms H. Clarke

Year 7

For Science to be a department of excellence, collaboration, motivation and engagement.

Every child is entitled to a good education and we are committed in ensuring all pupils make greater than expected progress across all Key Stages, by developing scientific enquiry, numeracy and literacy through practical activity and outstanding teaching.

Learning is our priority.

	Autumn 1	Autumn 2
Focus/Context for Learning	<p><u>Working scientifically</u> Investigation Skills for Science</p> <p><u>1B. Organisms</u> Movement and Cells</p>	<p><u>2P. Energy</u> Energy cost and Transfer</p> <p><u>3C. Matter</u> Particle Model and Separating Mixtures</p>
	Spring 1	Spring 2
Focus/Context for Learning	<p><u>4B. Genes</u> Variation and Human Reproduction</p> <p><u>5P. Waves</u> Sounds and Light</p>	<p><u>6C. Reactions</u> Acid and Alkalis, Metals and non Metals</p> <p><u>7B. Ecosystem</u> Interdependence and Plant Reproduction</p>
	Summer 1	Summer 2
Focus/Context for Learning	<p><u>8P. Forces</u> Speed and Gravity</p>	<p><u>9P. Electromagnets</u> Voltage Resistance and Current</p>



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Year 8

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	Autumn 1	Autumn 2
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Focus/Context for Learning	<u>1B. Organism</u> Breathing and Digestion	<u>3C. Matter</u> Periodic Table and Elements
	<u>2P. Energy</u> Work & Heating And Cooling	<u>4B. Ecosystem</u> Respirations and Photosynthesis

	Spring 1	Spring 2
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Focus/Context for Learning	<u>5P. Forces</u> Contact Forces and Pressure	<u>7B. Genes</u> Evolution and Inheritance
	<u>6C. Earth</u> Climate and Earth Resources	<u>8P. Waves</u> Wave Effects and Wave Properties

	Summer 1	Summer 2
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Focus/Context for Learning	<u>9C. Reactions</u> Chemical Energy and Types of Reactions	<u>10P. Electromagnets</u> Magnetism and Electromagnetism
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Year 9

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	Autumn 1	Autumn 2
Focus/Context for Learning	1B. Cells 2P. Energy 3C. Chemistry of the Earth's atmosphere	4B. Transport 5P. Particle model of matter
	Spring 1	Spring 2
Focus/Context for Learning	6C. Using resources 7B. Health and disease 8P. Electricity	9C. Atomic structure and Periodic table 10B. Homeostasis and Control
	Summer 1	Summer 2
Focus/Context for Learning	11B. Digestive system and enzymes	Revision and Practical skills



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Year 10

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	Autumn 1	Autumn 2
Focus/ Context for Learning	<p><u>Combined Science</u> 1C. Bonding, structures and the properties of matter 2B. Digestive system & Enzymes</p> <p><u>Separate Science</u> 1C. Bonding, structures and the properties of matter & Using resources 2B. Digestive system & Enzymes</p>	<p><u>Combined Science</u> 3P. Atomic structure 4C. Chemical changes</p> <p><u>Separate Science</u> 3P. Atomic structure 4C. Chemical changes (Part 1)</p>
	Spring 1	Spring 2
Focus/ Context for Learning	<p><u>Combined Science</u> 5B. Lungs, heart, blood and respiration</p> <p><u>Separate Science</u> 5B. Lungs, heart, blood and respiration</p>	<p><u>Combined Science</u> 6P. Forces 7C. Energy changes</p> <p><u>Separate Science</u> 6P. Forces 7C. Energy changes</p>
	Summer 1	Summer 2
Focus/ Context for Learning	<p><u>Combined Science</u> 8B. Photosynthesis 9P. Electromagnetism</p> <p><u>Separate Science</u> 8B. Photosynthesis & plant disease 9P. Electromagnetism</p>	<p><u>Combined Science</u> 10C. Quantitative chemistry</p> <p><u>Separate Science</u> 10C. Quantitative chemistry & Chemical changes (Part 2 – Sep only)</p>



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Year 11

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	Autumn 1	Autumn 2
Focus/Context for Learning	<p><u>Combined Science</u> 1B. Inheritance 2P. Forces</p> <p><u>Separate Science</u> Summer h/w: - Biodiversity and Human interaction - Organic chemistry - Space 1B. Inheritance and Evolution 2P Forces</p>	<p><u>Combined Science</u> 3C. The rate and extent of chemical changes 4B. Biodiversity (Xmas homework) 5P. Electromagnetism</p> <p><u>Separate Science</u> 3C. The rate and extent of chemical changes & Using resources 4B. Organs</p>
	Spring 1	Spring 2
Focus/Context for Learning	<p><u>Combined Science</u> 6C. Chemical analysis 7P. Waves</p> <p><u>Separate Science</u> 5P. Electromagnetism 6C. Chemical analysis 7B. Ecological relationships</p>	<p><u>Combined Science</u> 6C. Organic chemistry 7B. Interdependence</p> <p><u>Separate Science</u> 8P. Static electricity & Particle model of matter 9P. Waves</p>
	Summer 1	Summer 2
Focus/Context for Learning	<p><u>Combined Science</u> Revision and Practical skills</p> <p><u>Separate Science</u> Revision and Practical skills</p>	<p><u>Combined Science</u> Revision and Practical skills</p> <p><u>Separate Science</u> Revision and Practical skills</p>