

Year 7 – Subject Intent Outline Plan – Science

	Terms 1-3 Topics taught on rotation	Term 4-5 Topics taught on rotation	Term 6 Topics taught on rotation
Unit (chapter) The 10 Science 'Big Ideas'	<u>Introduction to Science,</u> <u>Matter</u> <u>Organisms</u> <u>Earth</u> <u>Energy</u>	<u>Reactions</u> <u>Forces</u> <u>Ecosystems</u>	<u>Genes</u> <u>Electromagnets</u>
Core Knowledge and understanding	<u>Introduction to Science</u> Practical skills Lab safety Key terminology <u>Matter</u> Particle model Separating mixtures <u>Organisms</u> Cells Movement <u>Earth</u> Earth structure Universe <u>Energy</u> Energy transfer Energy costs	<u>Reactions</u> Metals and non-metals Acids and alkalis <u>Forces</u> Speed Gravity <u>Ecosystems</u> Interdependence Plant reproduction	<u>Genes</u> Variation Human Reproduction <u>Electromagnets</u> Current Voltage and resistance

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<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Core Subject Skills **</p>	<p><u>Introduction to Science</u> Practical skills Lab safety Key terminology <u>Matter</u> Particle model: Analyse, Communicate, Solve Separating mixtures: Analyse, Communicate, Enquire, Solve <u>Organisms</u> Cells: Communication Movement: Analyse, Communicate, Enquire <u>Earth</u> Earth structure: Analyse, Communicate, Solve Universe: Analyse, Communicate, Enquire, Solve <u>Energy</u> Energy transfer: Analyse, Communicate Energy costs: Analyse, Communicate, Solve</p>	<p><u>Reactions</u> Metals and non-metals: Analyse, Communicate, Enquire, Solve Acids and alkalis: Analyse, Communicate, Enquire, Solve <u>Forces</u> Speed: Analyse, Communicate, Enquire Gravity: Analyse, Communicate <u>Ecosystems</u> Interdependence: Analyse, Communicate, Enquire Plant reproduction: Analyse, Communicate, Enquire</p>	<p><u>Electromagnets</u> Current: Analyse, Communicate, Enquire Voltage and resistance: Analyse, Communicate, Enquire <u>Genes</u> Variation: Analyse, Communicate, Solve Human Reproduction: Analyse, Communicate, Solve</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Key Vocabulary</p>	<p style="text-align: center;">These are available on the scheme of work learning journeys</p>		

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<p>Assessment (Formative and summative)</p>	<ul style="list-style-type: none"> • Formative practical assessment (RP) • Formative end of chapter assessment • Baseline assessment at the end of introduction to science topic. • Summative assessment for end of term 3 covers all topics studied this year 	<ul style="list-style-type: none"> • Formative practical assessment (RP) • Formative end of chapter assessment • Summative assessment for end of term 5 (to include interleaved topics from terms 1-5) 	<ul style="list-style-type: none"> • Formative practical assessment (RP) • Formative end of chapter assessment
<p>Cultural literacy, LOtC and other links e.g. world of work</p>	<p><u>Introduction to Science</u> Level 2 vocabulary for use in world of work, Motor skills</p> <p><u>Matter</u> Criminology, Material science</p> <p><u>Organisms</u> Medicine and Health, Microbiology</p> <p><u>Earth</u> Geography, Space exploration, Use of models</p> <p><u>Energy</u> Cost of electricity in the home, Using electricity responsibly, Effect on environment</p>	<p><u>Reactions</u> Food technology</p> <p><u>Forces</u> Olympics, Measuring speed LOtC, Discovery of Gravity</p> <p><u>Ecosystems</u> LOtC Species identification, Climate change and habitat destruction, effect of ecosystems on health, Sampling school field LOtC.</p>	<p><u>Genes</u> Medicine, Science communication, Ethical debates</p> <p><u>Electromagnets</u> Electrician, Electrical safety</p>
<p>Homework</p>	<p style="text-align: center;">Doddle Revision tasks as and when required</p>		