

SUBJECT: Science - Autumn Term



	Autumn Term 1	Autumn Term 2
Topic	<p>7S / 7O / 7E: Atomic Structure / Waves 7T / 7W: Cells / Sound</p> <p>PLEASE SEE TERM 1 OR 2 FOR CONTENT DEPENDENT ON STUDENTS SPECIFIC TOPICS.</p> <p>Cells Content: Eukaryotes and Prokaryotes, Microscopy, Specialised Cells, Diffusion, Active Transport and Osmosis.</p> <p>Atomic Structure Content: Atom Structure and State Symbols, Elements/Mixtures and Compounds, Ions/Atoms and Isotopes, Chemical Equations, Periodic Table and Electron Configuration, Group 1 and Group 7.</p>	<p>7S / 7O / 7E: Cells / Sound 7T / 7W: Atomic Structure / Waves</p> <p>PLEASE SEE TERM 1 OR 2 FOR CONTENT DEPENDENT ON STUDENTS SPECIFIC TOPICS.</p> <p>Sound Content: Sound and Vibration, Tin Can Phone, Density, Frequency and Amplitude, Reflection of Sound, The Ear and The Doppler Effect</p> <p>Waves Content: Characteristics of Waves, Types of Waves, Reflection of Waves, Refraction of Waves, Diffraction of Waves, Uses of Waves and Communications, The New Wave Equation.</p>
Assessment	<p><u>Progress Check 1 & 2</u></p> <p>Approximate Date of Assessment: WK6 (Oct)</p> <p>Science students will receive 2 progress checks in this half term; one for each Science teacher. 7S, O and E will receive progress checks on Atomic Structure and Waves. 7T and W will receive progress checks on Cells and Sound. Each of these tests will be roughly 20 minutes long and comprise roughly of 20 marks. These questions will be a mixture of short response questions, multiple choice and extended literacy questions. These will be similar format to GCSE examination questions.</p>	<p><u>MILESTONE 1 & 2</u></p> <p>Approximate Date of Assessment: WK12 (Nov)</p> <p>Science students will receive 2 milestone assessments in this half term; one for each Science teacher.</p> <p>Milestone 1: Atomic Structure and Cells (comb) Milestone 2: Waves and Sound (Comb).</p> <p>Students should refer to their progress check targets to ensure they are fully prepared for their milestone assessments.</p>



	Spring Term 1	Spring Term 2
Topic	<p>7S / 7O / 7E: Light / Separation Techniques 7T / 7W: Body Systems / Plants & Photosynthesis</p> <p>PLEASE SEE TERM 1 OR 2 FOR CONTENT DEPENDENT ON STUDENTS SPECIFIC TOPICS.</p> <p>Plants & Photosynthesis: Leaf Structure, Photosynthesis, Measuring Photosynthesis, Rate of Photosynthesis, Plant Minerals and Fertilisers, Movement of Substances in Plants, Transpiration.</p> <p>Separation Techniques: Filtration, Paper Chromatography, Testing Gases, Hydrocarbons, Fractional Distillation, Combustion of Fuels, Issues of Burning Fuels.</p>	<p>7S / 7O / 7E: Body Systems / Plants & Photosynthesis 7T / 7W: Light / Separation Techniques</p> <p>PLEASE SEE TERM 1 OR 2 FOR CONTENT DEPENDENT ON STUDENTS SPECIFIC TOPICS.</p> <p>Body Systems: Levels of Organisation, Breathing and Gas Exchange, The Circulatory System, Heart Dissection, Respiration, Reproduction, The Menstrual Cycle.</p> <p>Light: Dispersion and Rainbows, EM and Speed, Reflection, Refraction, Uses of Reflection and Refraction, Colour Theory, Colour Filters.</p>
Assessment	<p><u>Progress Check 3 & 4</u></p> <p>Approximate Date of Assessment: WK18 (Jan)</p> <p>Science students will receive 2 progress checks in this half term; one for each Science teacher. 7S, O and E will receive progress checks on Light and Separation Techniques. 7T and W will receive progress checks on Body Systems and Plants/Photosynthesis. Each of these tests will be roughly 20 minutes long and comprise roughly of 20 marks. These questions will be a mixture of short response questions, multiple choice and extended literacy questions. These will be similar format to GCSE examination questions.</p>	<p><u>MILESTONE 3 & 4</u></p> <p>Approximate Date of Assessment: WK24 (Mar)</p> <p>Science students will receive 2 milestone assessments in this half term; one for each Science teacher.</p> <p>Milestone 3: Atomic Structure, Cells, Plants and Photosynthesis, Body Systems (comb).</p> <p>Milestone 4: Waves, Sound, Light, Separation Techniques (comb).</p> <p>Students should refer to their progress check targets to ensure they are fully prepared for their milestone assessments.</p>



	Summer Term 1	Summer Term 2
Topic	<p>All Groups: Competition / Space</p> <p>Competition: Ecosystems, Food Chains and Food Webs, Interdependence, Competition and Adaptation in Animals, Competition and Adaptation in Plants.</p> <p>Space: Earth and the Universe, Days and Seasons, Geocentrism and Heliocentrism, The Solar System, Galaxies, Solar System Formation, Theories about the Universe.</p>	<p>All Groups: The Earth / Chemical Changes</p> <p>The Earth: The Evolving Atmosphere, Greenhouse Gases, Climate Change, Finite and Renewable Resources, Water to Drink, Water Treatment, Reduce, Reuse, Recycle.</p> <p>Chemical Changes: Reactivity Series, Displacement, Extracting Metals, Acids and Metals, Soluble Salts, Other ways to make Salts, Neutralisation and pH.</p>
Assessment	<p><u>Milestone 5 & 6 (Summer Term Science Assessments)</u></p> <p>Approximate Date of Assessment: WK31 (May)</p> <p>Science students will receive 2 milestone assessments in this half term; one for each Science teacher.</p> <p>Milestone 5: Atomic Structure, Cells, Plants and Photosynthesis, Body Systems, Competition (comb).</p> <p>Milestone 6: Waves, Sound, Light, Separation Techniques, Space (comb).</p> <p>Students should refer to their progress check targets to ensure they are fully prepared for their milestone assessments.</p>	

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	Topic	Assessment
Autumn Term 1	7S / 7O / 7E: Atomic Structure / Waves 7T / 7W: Cells / Sound	Progress Check 1 & 2
Autumn Term 2	7S / 7O / 7E: Cells / Sound 7T / 7W: Atomic Structure / Waves	Milestone 1 & 2
Spring Term 1	7S / 7O / 7E: Light / Separation Techniques 7T / 7W: Body Systems / Plants & Photosynthesis	Progress Check 3 & 4
Spring Term 2	7S / 7O / 7E: Body Systems / Plants & Photosynthesis 7T / 7W: Light / Separation Techniques	Milestone 3 & 4
Summer Term 1	All Groups: Competition / Space	Milestone 5 & 6
Summer Term 2	All Groups: The Earth / Chemical Changes	