



# Year 7 Curriculum Science



		Term 1 (Autumn)		Term 2 (Spring)		Term 3 (Summer)	
		Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Topic		<b>Life</b>	<b>Energy</b>	<b>Particles</b>	<b>Health</b>	<b>Chemical Changes</b>	<b>Forces</b>
Key Concepts		<ul style="list-style-type: none"> <li>• Cells as building blocks</li> <li>• Using microscopes</li> <li>• Cell structure</li> <li>• Specialised cells</li> <li>• Cell division</li> <li>• Level of organisation</li> <li>• Respiration</li> <li>• Respiration in yeast</li> <li>• Bacteria</li> </ul>	<ul style="list-style-type: none"> <li>• Energy in food</li> <li>• Energy stores</li> <li>• Energy transfers</li> <li>• Conservation of energy</li> <li>• Power stations</li> <li>• Types of fuel</li> <li>• Renewable energy resources</li> <li>• Solar cells</li> <li>• Power of appliances</li> <li>• Electricity bills</li> </ul>	<ul style="list-style-type: none"> <li>• States of matter</li> <li>• Changes of state</li> <li>• Freezing</li> <li>• Condensing</li> <li>• Mixtures and solutions</li> <li>• Filtration</li> <li>• Crystallisation</li> <li>• Distillation</li> <li>• Chromatography</li> <li>• Cleaning water</li> </ul>	<ul style="list-style-type: none"> <li>• Cells to systems</li> <li>• Diet</li> <li>• Food tests</li> <li>• Skeleton and muscles</li> <li>• Lungs</li> <li>• Blood and heart</li> <li>• Anaerobic and aerobic respiration</li> <li>• Exercise</li> <li>• Drugs</li> <li>• Smoking / vapes</li> </ul>	<ul style="list-style-type: none"> <li>• Atoms and elements</li> <li>• Physical vs chemical changes</li> <li>• Compounds and naming compounds</li> <li>• Combustion – word equations</li> <li>• Acids and bases</li> <li>• pH scale</li> <li>• Neutralisation</li> <li>• Metals and acids</li> <li>• Thermal decomposition</li> <li>• Metal oxides</li> </ul>	<ul style="list-style-type: none"> <li>• What are forces</li> <li>• Friction and drag</li> <li>• Magnets and electrostatic forces</li> <li>• Mass and weight</li> <li>• Balanced and unbalanced forces</li> <li>• Turning forces</li> <li>• Speed, distance and time</li> <li>• Stopping distances</li> <li>• Terminal velocity</li> </ul>



# Year 7 Assessment Science



All pupils will sit several knowledge tests and an assessment in Year 7.

	Knowledge Tests	Assessment	Revision Resources
	Autumn/Spring Terms	Summer Term	
Style of Assessment	Each knowledge test consists of 10 multiple-choice questions	The assessment will consist of multiple-choice, short answer and longer answer questions	<i>Kennet Resources</i> <ul style="list-style-type: none"><li>• Year 7 Knowledge Organisers</li><li>• Learning Habits</li></ul>
Topics Assessed	<ul style="list-style-type: none"><li>• Core knowledge taught until that point in the academic year</li></ul>	<ul style="list-style-type: none"><li>• Life</li><li>• Energy</li><li>• Particles</li><li>• Health</li></ul>	<i>External Resources</i> <ul style="list-style-type: none"><li>• <a href="http://www.educake.co.uk">www.educake.co.uk</a></li><li>• <a href="http://www.educationquizzes.com">www.educationquizzes.com</a></li><li>• <a href="http://www.bbc.com/bitesize">www.bbc.com/bitesize</a></li><li>• <a href="http://www.youtube.com">www.youtube.com</a></li><li>• <a href="#">Science Revision Bank</a></li></ul>