



## Guide to Year 9 Science

### Assessment Criteria

Every half term students are assessed using national curriculum levels, each assessment is marked using these criteria. Students are following the AQA GCSE specification, all starting on the Trilogy Combined science route. Some students will then go on to take the Triple Science route, depending on student aptitude and aspirations.

### Expectations of Students

Students are expected to come equipped with appropriate stationary. They also need to read their teachers comments in their books and act on the feedback given. Students are expected to complete their progress tracking in the front of their books after every assessment. These assessments will take place before the end of each half term.

Year 9	Topic Title and unit	What students will be learning	How you can specifically help your child
HT1	Cells B1  Atomic Structure C1	<ul style="list-style-type: none"> <li>• Cell Structure and Function.</li> <li>• Specialisation of cells.</li> <li>• Transport in Cells.</li> <li>• Atoms, Ions and Isotopes.</li> <li>• History of the Atom.</li> <li>• Electronic Structure.</li> <li>• Separation Techniques.</li> </ul>	Assist with homework. Encourage your son or daughter to use GCSE BBC Bitesize.
HT2	Cell Division B2  Radioactivity P7  Structure and Bonding C3	<ul style="list-style-type: none"> <li>• Cell Division.</li> <li>• Growth and Differentiation.</li> <li>• Stem Cells.</li> <li>• Atoms and radiation.</li> <li>• Nucleus.</li> <li>• Alpha, Beta, Gamma.</li> <li>• Activity and Half Life.</li> <li>• States of matter.</li> <li>• Ionic Bonding.</li> <li>• Covalent Bonding</li> <li>• Metallic Binding and giant metallic structures.</li> </ul>	Assist with homework. Encourage your son or daughter to use GCSE BBC Bitesize.
HT3	Organisation and Digestive System B3  Conservation of Energy P1  Molecules and Matter P6	<ul style="list-style-type: none"> <li>• Tissues and Organs.</li> <li>• Digestion.</li> <li>• Chemistry of food.</li> <li>• Enzymes.</li> <li>• Types of Energy.</li> <li>• Energy Dissipation.</li> <li>• Energy Efficiency.</li> <li>• Density and states of matter.</li> <li>• Internal Energy</li> <li>• Specific Latent Heat.</li> </ul>	Assist with homework. Encourage your son or daughter to use GCSE BBC Bitesize.
HT4	Organising Animals and Plants B4  Chemical Calculations C4	<ul style="list-style-type: none"> <li>• Blood vessels and heart.</li> <li>• Breathing and gas exchange.</li> <li>• Tissues and organs in plants.</li> <li>• Transport in plants.</li> <li>• Relative masses and Moles.</li> <li>• Equations and Calculations.</li> <li>• Concentrations.</li> </ul>	Assist with homework. Encourage your son or daughter to use GCSE BBC Bitesize.



	Energy Transfer P2	<ul style="list-style-type: none"> <li>• Energy Transfer by heating.</li> <li>• Conduction.</li> <li>• Specific Heat Capacity.</li> <li>• Heating and Insulating Buildings.</li> </ul>	
HT5	Communicable Diseases B5  Chemical Changes C5  Energy Resources P3	<ul style="list-style-type: none"> <li>• Health, disease and pathogens.</li> <li>• Viral, bacterial, protist and fungal diseases.</li> <li>• Human defence mechanisms.</li> <li>• Reactivity and Displacement.</li> <li>• Extracting metals.</li> <li>• Salts</li> <li>• Acids.</li> <li>• Energy Demands.</li> <li>• Energy Resources.</li> <li>• Environmental links.</li> <li>• Energy Issues.</li> </ul>	Assist with homework. Encourage your son or daughter to use GCSE BBC Bitesize.
HT6	Diseases Cont. B6 and B7  Electrolysis C6  Electricity P4 and 5	<ul style="list-style-type: none"> <li>• Preventing and treating diseases.</li> <li>• Non Communicable diseases.</li> <li>• Cancer</li> <li>• Lifestyle and disease.</li> <li>• Changes at the electrodes.</li> <li>• Extraction of metals by electrolysis.</li> <li>• Electrolysis of aqueous solutions.</li> <li>• Basic electrical circuits and terminology.</li> <li>• Series and parallel circuits.</li> <li>• Electricity in the home.</li> <li>• Cables and plugs.</li> <li>• Power and PD.</li> <li>• Currents and energy transfer.</li> </ul>	Assist with homework. Encourage your son or daughter to use GCSE BBC Bitesize.
<p><b>Key dates</b> and what students will be doing:</p> <p>Students will sit a Summative Assessment in the penultimate week of each half term. This will be based on the topics covered in the half term.</p>			

**Contact details**

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