

Subject	Year 8 Chemistry content – Autumn Term	How to support students' learning
Elements 2	<p data-bbox="450 236 1066 263"><u>Introduction to elements, compounds and mixtures</u></p> <ul data-bbox="499 272 1171 491" style="list-style-type: none"> <li data-bbox="499 272 920 300">• A simple (Dalton) atomic model <li data-bbox="499 304 1171 363">• Describe the differences between atoms, elements & compounds <li data-bbox="499 368 1171 427">• Use chemical symbols and formula for elements and compounds <li data-bbox="499 432 1104 491">• Describe the arrangement of the Periodic table: periods and groups, metals and non-metals <p data-bbox="450 501 1010 528"><u>Understanding and writing chemical equations</u></p> <ul data-bbox="499 537 1171 746" style="list-style-type: none"> <li data-bbox="499 537 1171 596">• Describe chemical reactions as the rearrangement of atoms <li data-bbox="499 601 1133 660">• Represent chemical reactions using formulae and using equations <li data-bbox="499 665 1133 746">• Give examples of exothermic and endothermic chemical reactions and describe what happens in them <p data-bbox="450 756 707 783"><u>Conservation of mass</u></p> <ul data-bbox="499 793 1171 906" style="list-style-type: none"> <li data-bbox="499 793 1171 852">• Describe the conservation of mass, changes of state and chemical reactions <li data-bbox="499 857 1171 906">• Describe chemical reactions as the rearrangement of atoms <p data-bbox="450 916 1171 975"><u>Planning and carrying out an investigation into conservation of mass</u></p> <ul data-bbox="499 984 1171 1209" style="list-style-type: none"> <li data-bbox="499 984 1115 1043">• Make predictions using scientific knowledge and understanding <li data-bbox="499 1048 1171 1139">• Use appropriate techniques, apparatus and materials during fieldwork and laboratory work, paying attention to health and safety <li data-bbox="499 1144 1171 1209">• Make and record observations and measurements using a range of methods for different investigations 	<ul data-bbox="1249 272 1973 986" style="list-style-type: none"> <li data-bbox="1249 272 1973 379">• Encourage your child to watch the video on elements, compounds and mixtures 8. BBC Bitesize KS3 Elements, Compounds & Mixtures BBC18LS08 - YouTube <li data-bbox="1249 528 1973 635">• Encourage your child to watch this video to learn how to write and balance chemical equations Writing and Balancing Equations - YouTube <li data-bbox="1249 888 1973 986">• Encourage your child to visit the BBC bitesize website to learn what is meant by the conservation of mass Conservation of mass - BBC Bitesize