

## Chemistry - Year 10 Trilogy Topic 1 Atomic structure and the Periodic table

## Student checklist

	KS4 Science: Atomic Structure & Periodic Table	I can do this	Covered in Class	Strength ?	Revised it?	Kerboodle Textbook page reference
Year 9 Recap Lesson 1	<ul style="list-style-type: none"> <li>I can list separation techniques</li> <li>I can explain how distillation works</li> <li>I can design and carry out a method to separate out a number of compounds</li> </ul>					P8 & P10
Year 9 Recap Lesson 2	<ul style="list-style-type: none"> <li>I can explain why the new evidence from the scattering experiment led to a change in the atomic model</li> <li>I can explain the difference between the plum pudding model of the atom and the nuclear model of the atom</li> <li>I can use the nuclear model to describe atoms.</li> <li>I can relate size and scale of atoms to objects in the physical world</li> <li>I can calculate the relative atomic mass of an element given the percentage abundance of its isotopes</li> </ul>					P12 & P14
Year 9 Recap Lesson 3	<ul style="list-style-type: none"> <li>I can represent the electronic structures of the first twenty elements of the periodic table in both forms.</li> <li>I can explain how the position of an element in the periodic table is related to the arrangement of electrons in its atoms and hence to its atomic number</li> <li>I can predict possible reactions and probable reactivity of elements from their positions in the periodic table</li> <li>I can describe the steps in the development of the periodic table</li> </ul>					P22 & P24
Year 9 Recap Lesson 4	<ul style="list-style-type: none"> <li>I can write a chemical formula</li> <li>I can write a word equation</li> <li>I can write a balanced chemical equation</li> </ul>					P6
Metals and Non-metals	<ul style="list-style-type: none"> <li>I can explain the differences between metals and non-metals on the basis of their characteristic physical and chemical properties</li> <li>I can explain how the atomic structure of metals and non-metals relates to their position in the periodic table</li> <li>I can explain how the reactions of elements are related to the arrangement of electrons in their atoms and hence to their atomic number.</li> </ul>					0
Group 0 and Group 1	<ul style="list-style-type: none"> <li>I can explain how properties of the elements in Group 1 depend on the outer shell of electrons of the atom</li> <li>I can explain how properties of the elements in Group 0 depend on the outer shell of electrons of the atoms</li> </ul>					p26
Group 7	I can explain how properties of the elements in Group 7 depend on the outer shell of electrons of the atoms I predict properties from given trends down the group					p28
Properties of Transition Metals	<ul style="list-style-type: none"> <li>I can explain how density, strength, melting point and hardness compare to the Alkali Metals</li> <li>I can predict chemical properties and compare them to the Alkali Metals</li> <li>I can describe the different coloured ions formed during experiments of the Transition Metals</li> </ul>					p18-19
End of topic test						