

Prior Learning:		Students have already covered in unit 7H- the idea of Elements, Compounds and Mixtures, Element Symbols, Metals and Non-metals, How Elements Form Compounds			
Lesson Number	Title	Lesson Objectives	Content	Key words	Assessment/Homework
1	Atomic model	What are atoms like?	<ul style="list-style-type: none"> Describe Daltons atomic theory Differentiate between element, compound and mixture Describe elements using physical properties Explain what is meant by physical changes 	<ul style="list-style-type: none"> Element Atom Compound Mixture Physical changes 	
2	Chemical properties	How do scientists describe substances?	<ul style="list-style-type: none"> Explain the difference between chemical and physical changes Use atomic theory to explain what happens during a chemical reaction Write and interpret chemical formulae 	<ul style="list-style-type: none"> Chemical properties Chemical changes Chemical formula 	
3	Mendeleev's Table (May need two lessons)	How was the periodic table developed?	<ul style="list-style-type: none"> Recognise symbols for elements Identify the groups in the periodic table Locate the metals and non-metals Be able to label the periods Describe how the periodic table is arranged Explain the work of John Newlands and his law of octaves Explain the work of Dimitri Mendeleev Evaluate both of their ideas 	<ul style="list-style-type: none"> Dimitri Mendeleev Law of octaves Periodic table Groups Periods Halogens Alkali metals 	20-mark multiple choice quiz

4	Physical trends	What kind of trend occur in physical properties?	<ul style="list-style-type: none"> • Explain melting, freezing and boiling points, use them to predict the state of a substance • Describe and identify trends in physical properties in the periodic table 	<ul style="list-style-type: none"> • Melting point • Boiling point 	
5	Chemical Trends in group 1	How do the group 1 metals react in water?	<ul style="list-style-type: none"> • Reactivity of group one metals • Identify trends and make predictions • Write word equations 	<ul style="list-style-type: none"> • Alkali metals • Reactivity 	
Revision and Test					
Where we will use these ideas again		C1 atomic structure C2 structure and bonding			