

Revision Checklist AQA GCSE Core Science & Chemistry 1

FUNDAMENTAL IDEAS IN CHEMISTRY		
	Annotate a diagram of an atom with names and features of each part.	
	State numbers of protons and electrons in an atom and use this to explain the overall charge.	
	Define 'element', 'mass number' and 'atomic number'.	
	Draw diagrams to show electronic structure of the first 20 elements.	
	State and explain the relationship between elements in the same group.	
	State what noble gases are and explain why they are so unreactive.	
	Define 'compound' and 'molecule'.	
	Explain how ionic compounds are formed from metals and non-metals.	
	Explain how molecular compounds are formed from non-metals.	
LIMESTONE AND BUILDING MATERIALS		
	Give the chemical name and formula for limestone.	
	Describe how limestone is quarried.	
	Describe the thermal decomposition of carbonates calcium, magnesium, zinc and sodium	
	Describe the reaction of calcium oxide with water and of limewater.	
	Describe how limestone is used to make cement and how cement is used.	
METALS AND THEIR USES		
	Link how metals are found in the earth's crust to their reactivity.	
	Describe how metals can be extracted by reduction or electrolysis	
	Choose which method of extraction would be used, depending on the reactivity of a metal	
	Describe how copper, aluminium and titanium are extracted and purified.	
	Evaluate the benefits of recycling	
	Explain the properties of different iron and steels.	
	Link some properties of everyday alloys to their uses.	
	Define transition metals. Link some properties of transition metals to their uses.	
	Link the properties of copper to its uses in electrical wiring and plumbing.	
CRUDE OIL AND FUELS		
	Define 'mixture' and describe what crude oil is and what it is made up of.	
	Recognise & define 'alkanes', name & draw the first 4 hydrocarbons in formulae/diagrams.	
	Describe how fractional distillation is used.	
	Link the size of molecule to its boiling point, viscosity and flammability.	
	State products of combustion of fuels, e.g sulphur dioxide, nitrogen oxides, carbon monoxide	
	Give the environmental problems with some of these products.	
	Describe how levels of sulphur dioxide can be reduced.	
	Evaluate the advantages of biofuels.	