

Provider-led

INTERVIEWS & ADMISSIONS Subject Knowledge Audit – Science with Chemistry

Please self-grade and identify the source/s of your knowledge for each of the topics in both tables below.

Source of Knowledge / Skills (write one or two codes):

N	None (or below GCSE)	D	Degree Level (including HND)
G	GCSE (or O Level)	P	Post-graduate
A	Advanced Level (including AVCE, HNC)	W	Work-related training

Current Level of Knowledge / Skill (write one grade only):

- 4 Little or No Secure Knowledge.
- 3 Basic Personal Knowledge up to GCSE level, however you are not fully aware of possible misconceptions and how to address them and you may inadvertently reinforce misconceptions.
- 2 Secure knowledge / skill up to GCSE that would enable you to teach this to pupils. You would be aware of the common misconceptions in this skill area and you would be able to address these in a lesson.
- 1 Secure knowledge / skill up to A Level standard.

Name:	Date:
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Area	Skill / Knowledge	Source N/G/A/D/P/W	Level 1/2/3/4
Fundamental Principles in Chemistry	Atoms (Core)		
	Periodic Table (Core)		
	Chemical Reactions (Core)		
	Structure and Bonding (Additional)		
	Analysing Substances (Additional) (Triple)		
	Quantitative Chemistry (Additional)		
	The Early Periodic Table (Triple)		
	The Modern Periodic Table (Triple)		
	Trends in the Periodic Table (Triple)		
Properties and uses of substances	Limestone and Building Materials - Calcium Carbonate (Core)		
	Molecules (Additional)		
	Ionic Compounds (Additional)		
	Covalent Structures (Additional)		
	Metals (Additional)		
	Polymers (Additional)		
	Nanoscience (Additional)		
	Hard and Soft Water (Triple)		
	Purifying Water (Triple)		
Alcohols (Triple)			

	Carboxylic Acids (Triple)		
	Esters (Triple)		
Metals and their Uses	Extraction of Metal (Core)		
	Alloys (Core)		
	Properties and use of metals (Core)		
Crude Oil	Crude Oil (Core)		
	Hydrocarbons (Core)		
	Hydrocarbon Fuels (Core)		
	Obtaining useful substances from Crude Oil (Core)		
	Polymers (Core)		
	Ethanol (Core)		
Reactions	Rates of Reaction (Additional)		
	Endothermic and Exothermic Reactions (Additional)		
	Making Salts (Additional)		
	Acids and Bases (Additional)		
	Electrolysis (Additional)		
	Energy from Reactions (Triple)		
	Making Ammonia (Triple)		

Additional relevant information (optional):

SCIENCE

Area	Skill / Knowledge	Source N/G/A/D/P/W	Level 1/2/3/4
Cell Activity	Plant and Animal cells		
	Transport across boundaries e.g. osmosis		
	Cell Division		
Humans As Organisms	Nutrition		
	Mammalian Circulation		
	Breathing		
	Respiration		
	Nervous System		
	Hormones		
	Homeostasis		
	Disease		
Green Plants As Organisms	Plant nutrition		
	Plant hormones		
	Transport in and water relations		
Variation, Inheritance And Evolution	Variation		
	Genetics and DNA		
	Genetic Engineering		
	Controlling Inheritance		
Living Things In Their Environment	Adaptation and Competition		
	Human Impact on the Environment		
	Energy and Nutrient Transfer		
	Nutrient Cycles		
Classifying Materials	Atomic structure		
	Bonding		
Changing Materials	Useful products from Oil		
	Useful products from Metal Ores		
	Useful products from Rocks		
	Useful products from Air		
	Representing Reactions		
	Quantitative Chemistry		
	Changes to the Earth and Atmosphere		
Patterns Of Behaviour	The Rock Record		
	The Periodic Table		
	Chemical Reactions		
	Rates of Reactions		
	Reactions involving enzymes		
	Reversible Reactions		
Electricity	Energy Transfer in Reactions		
	Energy in circuits		
	Mains Electricity		
	The Cost of using Electrical Appliances		
	Electrical change		

Forces And Motion	Representing and measuring motion		
	Forces and Acceleration		
	Frictional Forces and non-uniform motion		
Waves	Characteristics of Waves		
	The Electromagnetic Spectrum		
	Sound and Ultrasound		
	Seismic Waves		
	Tectonics		
The Earth And Beyond	The Solar System		
	The Universe		
Energy Resources And Energy Transfer	Thermal Energy Transfer		
	Efficiency		
	Energy Resources		
	Work Power and Energy		
	Electromagnetic Forces		
	Electromagnetic Induction		
Radioactivity	Types, Properties and uses of Radioactivity		
	Atomic Structure and Nuclear Fissions		

Additional relevant information (optional):