## Provider-led

## INTERVIEWS & ADMISSIONS Subject Knowledge Audit – Science with Physics

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

Sour	ce of K	nowledge / Skills (write one or two codes):		
	Ν	None (or below GCSE)	D	Degree Level (including
	G	GCSE (or O Level)		HND)
9.	Α	Advanced Level (including	Р	Post-graduate
		AVCE, HNC)	W	Work-related training

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

- 4 Little or No Secure Knowledge.
- 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.
- 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
Energy Transfer	Infrared Radiation (Core)		
	Kinetic Theory (Core)		
	Energy Transfer by Heating (Core)		
	Heating and Insulating Buildings (Core)		
	Energy Transfers and Efficiency (Core)		
Electricity	Transferring Electrical Energy (Core)		
	Generating Electricity (Core)		
	The National Grid (Core)		
	Static Electricity (Additional)		
	Electrical Circuits (Additional)		
	Household Electricity (Additional)		
	Current, Charge and Power (Additional)		
	Motor Effect (Triple)		
	Transformers (Triple)		
Waves	General properties of waves (Core)		
	Reflection (Core)		
	Sound (Core)		
	Red Shift (Core)		

Forces	Resultant Forces (Additional)	
	Forces and Motion (Additional)	
	Forces and Braking (Additional)	
	Forces and Terminal Velocity (Additional)	
	Forces and Elasticity (Additional)	
	Forces and Energy (Additional)	
	Momentum (Additional) (Triple)	
	Centre of Mass (Triple)	
	Hydraulics (Triple)	
	Circular Motion (Triple)	
Radiation	Atomic Structure (Additional)	
	Atoms and Radiation (Additional)	
	Nuclear Fusion (Additional)	
	Nuclear Fission (Additional)	
Medical	X-Rays (Triple)	
Applications of	Ultrasound (Triple)	
Physics	Lenses (Triple)	
	The Eye (Triple)	
	Other Applications, e.g. Optical Fibres, Lasers (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	Nutrition		
Organisms	Mammalian Circulation		
	Breathing	,	
	Respiration		
	Nervous System		
	Hormones		
	Homeostasis		
	Disease		
	Drugs		
Green Plants	Plant nutrition		
As Organisms	Plant hormones		
	Transport in and water relations		
Variation,	Variation		
Inheritance And	Genetics and DNA		
Evolution	Genetic Engineering		
	Controlling Inheritance		
	Evolution		
Living Things In	Adaptation and Competition		
Their	Human Impact on the Environment		
Environment	Energy and Nutrient Transfer		
	Nutrient Cycles		
Classifying	Atomic structure		
Materials	Bonding		
Changing	Useful products from Oil		
Materials	Useful products from Metal Ores		
	Useful products from Rocks		
	Useful products from Air		
	Representing Reactions		
	Quantitative Chemistry		
	Changes to the Earth and Atmosphere		
	The Rock Record		
Patterns Of	The Periodic Table		
Behaviour	Chemical Reactions		
	Rates of Reactions		
	Reactions involving enzymes		
	Reversible Reactions		
	Energy Transfer in Reactions		
Electricity	Energy in circuits		
Libotrioity	Mains Electricity		
	The Cost of using Electrical Appliances		
	Electrical change		

Forces And	Representing and measuring motion	
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	The Solar System	
Beyond	The Universe	
Energy	Thermal Energy Transfer	
Resources And	Efficiency	
<b>Energy Transfer</b>	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):