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|  | **INTERVIEWS & ADMISSIONS****Subject Knowledge Audit Science with Physics** |

Please self-grade and identify the source(s) of your knowledge for each of the topics. Please note that this is a 4-pages long document.

Please return your completed audit on email to c.neuberg@leedstrinity.ac.uk

Source of Knowledge / Skills (write one or two codes): N None (or below GCSE)

G GCSE (or O Level)

A Advanced Level (including AVCE, HNC)

D Degree Level (including HND) P Post-graduate

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.

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| **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  |  |  |
| Kinetic Theory  |  |  |
| Enerqy Transfer by Heating  |  |  |
| Heating and Insulating Buildings  |  |  |
| Energy Transfers and Efficiency  |  |  |
| Electricity | Transferring Electrical Energy  |  |  |
| Generating Electricity  |  |  |
| The National Grid  |  |  |
| Static Electricity  |  |  |
| Electrical Circuits  |  |  |
| Household Electricity  |  |  |
| Current, Charge and Power  |  |  |
| Motor Effect  |  |  |
| Transformers |  |  |

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| Waves | General properties of waves  |  |  |
| Reflection  |  |  |
| Sound  |  |  |
| Red Shift  |  |  |
| Forces | Resultant Forces |  |  |
| Forces and Motion  |  |  |
| Forces and Breaking  |  |  |
| Forces and Terminal Velocity  |  |  |
| Forces and Elasticity |  |  |
| Momentum  |  |  |
| Centre of Mass  |  |  |
| Hydraulics  |  |  |
| Circular Motion |  |  |
| Radiation | Atomic structure |  |  |
| Atoms and Radiation  |  |  |
| Nuclear Fusion and Fission  |  |  |
| Medical Applications of Physics | X-rays |  |  |
| Ultrasound |  |  |
| Lenses and the eyes |  |  |
| Other Applications, e.g. Optical Fibres, Lasers |  |  |

Additional relevant information (optional):

**SCIENCE**

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| **Area** | **Skill / Knowledge** | **Source****N/G/A/D/P/W** | **Level****1/2/3/4** |
| Cell Activity | Plant and Animal cells |  |  |
| Transport across boundariese.g. osmosis |  |  |
| Cell Division |  |  |
| Humans As Organisms | Nutrition |  |  |
| Mammalian Circulation |  |  |
| Breathing |  |  |
| Respiration |  |  |
| Nervous System |  |  |
| Hormones |  |  |
| Homeostasis |  |  |
| Disease |  |  |
| Drugs |  |  |
| 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 |  |  |
| Evolution |  |  |
| 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 |  |  |
| The Rock Record |  |  |
| Patterns Of Behaviour | The Periodic Table |  |  |
| Chemical Reactions |  |  |
| Rates of Reactions |  |  |
| Reactions involving enzymes |  |  |
| Reversible Reactions |  |  |
| Energy Transfer in Reactions |  |  |
| Electricity | Energy in circuits |  |  |
| Mains Electricity |  |  |
| The Cost of using Electrical Appliances |  |  |
| Electrical change |  |  |

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| 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):