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| Self Assessment GradingGrade 1 - Excellent level of knowledge and understanding. Fully prepared to teach.Grade 2- Good level of knowledge and understanding. Not fully confident to teach.Grade 3 - Some knowledge and understanding. Further research and study required before teaching.Grade 4 - Limited knowledge and understanding. Action planning required to prepare for teaching |
| **Area of Subject Knowledge** | **Self-assessment grade 1-4** |
|  | **June Pre-course** | **September Commencement of course** | **December At the end of the autumn term.**  | **March At the end of the spring term**  | **June At the end of the spring/summer term.** |
| **Curriculum content** |  |
| How aware are you of the Science pupils will have been taught before KS3? |  |  |  |  |  |
| How aware are you of the content of GCSE Science and how this builds on what is taught at KS3? |  |  |  |  |  |
| How aware are you of the content of a A'level in Science and how this builds on what is taught at KS4? |  |  |  |  |  |
| **Biology KS3** |   |   |   |   |   |
| **Structure and function of living organisms……….** |   |   |   |   |   |
| Cells and organisation |   |   |   |   |   |
| The skeletal and muscular system |   |   |   |   |   |
| Nutrition and digestion |   |   |   |   |   |
| Gas exchange systems |   |   |   |   |   |
| Reproduction |   |   |   |   |   |
| Health |   |   |   |   |   |
| **Material cycles and energy……..** |   |   |   |   |   |
| Photosynthesis |   |   |   |   |   |
| Cellular respiration |   |   |   |   |   |
| **Interactions and interdependencies………** |   |   |   |   |   |
| Relationships in an ecosystem |   |   |   |   |   |
| **Genetics and evolution………** |   |   |   |   |   |
| Inheritance, chromosomes, DNA and genes |   |   |   |   |   |
| **Biology KS4**Check the KS4 programme of study and the appropriate exam board specification for full detail |   |   |   |   |   |
| Cell biology |   |   |   |   |   |
| Transport systems |   |   |   |   |   |
| Health, disease and the development of medicines |   |   |   |   |   |
| Photosynthesis |   |   |   |   |   |
| Evolution, inheritance and variation |   |   |   |   |   |
|   |   |   |   |   |   |
| **Using technology in teaching** |   |   |   |   |   |
| ..creating, renaming, moving, copying and deleting files? |   |   |   |   |   |
| ..downloading and printing files? |   |   |   |   |   |
| ..creating an Excel spreadsheet? |   |   |   |   |   |
| ..using a database?  |   |   |   |   |   |
| ..creating an electronic presentation, e.g. PowerPoint or Prezi? |   |   |   |   |   |
| ..sending and receiving email? |   |   |   |   |   |
| ..locating documents on a hard drive, CD ROM, USB or network? |   |   |   |   |   |
| ..using interactive whiteboards, e.g. Smartboard, Promethean? |   |   |   |   |   |
| ..using tablets, e.g. iPads? |   |   |   |   |   |
| ..using online forums or class blogs? |   |   |   |   |   |
| ..using social media for educational purposes? |   |   |   |   |   |

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| **Chemistry KS3** |  |
| The particulate nature of matter |  |  |  |  |  |
| Atoms, elements and compounds |  |  |  |  |  |
| The Periodic Table |  |  |  |  |  |
| Pure and impure substances |  |  |  |  |  |
| Materials |  |  |  |  |  |
| Earth and Atmosphere |  |  |  |  |  |
| **Chemistry KS4**Check the KS4 programme of study and the appropriate exam board specification for full detail. |   |   |   |   |   |
| Atomic structure and the Periodic Table |   |   |   |   |   |
| Structure, bonding and the properties of matter |   |   |   |   |   |
| Chemical changes |   |   |   |   |   |
| Rate and extent of chemical change |   |   |   |   |   |
| Chemical analysis |   |   |   |   |   |
| Earth and atmospheric science |   |   |   |   |   |

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| **Physics KS3** |  |
| Energy |  |  |  |  |  |
| Calculation of fuel uses and costs in the domestic context |  |  |  |  |  |
| Energy changes and transfers |  |  |  |  |  |
| Changes in systems |  |  |  |  |  |
| Motion and Forces |  |  |  |  |  |
| Describing motion |  |  |  |  |  |
| Forces |  |  |  |  |  |
| Pressure in fluids |  |  |  |  |  |
| Balanced forces |  |  |  |  |  |
| Forces and motion |  |  |  |  |  |
| Waves |  |  |  |  |  |
| Observed waves |  |  |  |  |  |
| Sound waves |  |  |  |  |  |
| Energy and Waves |  |  |  |  |  |
| Eletricity and electromagnetism |  |  |  |  |  |
| Current electricity |  |  |  |  |  |
| Static electricity |  |  |  |  |  |
| Magnetism |  |  |  |  |  |
| Matter |  |  |  |  |  |
| Physical changes |  |  |  |  |  |
| Particle model |  |  |  |  |  |
| Energy in matter |  |  |  |  |  |
| Space physics |  |  |  |  |  |
| **Physics KS4**Check the KS4 programme of study and the appropriate exam board specification for full detail. |   |   |   |   |   |
| Energy |   |   |   |   |   |
| Forces |   |   |   |   |   |
| Forces and motion |   |   |   |   |   |
| Wave motion |   |   |   |   |   |
| Electricity |   |   |   |   |   |
| Magnetism and electromagnetism |   |   |   |   |   |
| The structure of matter |   |   |   |   |   |
| Atomic strucure |   |   |   |   |   |
| Space physics |   |   |   |   |   |