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|  | Requirements | Year 5 | Year 6 |
| Plan | Propose a question | Reversible and irreversible changes  Forces  Environments | Changing reactions  Light: reflect and refract  Electricity: changing circuits  Respiration  Dynasties |
| **Identify and control variables** | Reversible and irreversible changes  Forces  Environments | Changing reactions  Light: reflect and refract  Electricity: changing circuits  Respiration  Dynasties |
| State or use a classification system or key | Environments | Dynasties |
| **State a relationship between variables** | Reversible and irreversible changes  Forces  Earth and space  Life cycles  Environments | Changing reactions  Light: reflect and refract  Electricity: changing circuits  Respiration  Dynasties |
| Show understanding of scientific theory | Forces | Dynasties |
| Obtain | Identify equipment | Reversible and irreversible changes  Forces  Environments | Changing reactions  Light: reflect and refract  Electricity: changing circuits |
| Use a range of equipment to take precise measurements | Reversible and irreversible changes  Forces  Environments | Changing reactions  Light: reflect and refract  Electricity: changing circuits |
| Describe a standard procedure | Reversible and irreversible changes | Changing reactions |
| Take repeat readings  mean | Reversible and irreversible changes | Changing reactions  Light: reflect and refract  Electricity: changing circuits |
| Take repeat readings  Year 6 only  Mean, mode and median | Reversible and irreversible changes | Changing reactions  Light: reflect and refract  Electricity: changing circuits |
| Carry out a standard procedure | Reversible and irreversible changes | Changing reactions |
| Evaluate risk | Reversible and irreversible changes  Forces  Environments | Changing reactions  Light: reflect and refract  Electricity: changing circuits |
| **Set up further comparative and fair tests** | Reversible and irreversible changes  Forces  Environments | Changing reactions  Light: reflect and refract  Electricity: changing circuits  Respiration  Dynasties |
| Collect and record relevant data | Reversible and irreversible changes  Forces  Environments | Changing reactions  Light: reflect and refract  Electricity: changing circuits |
| Present | **Use diagrams, labels, tables, charts , graphs** | Reversible and irreversible changes  Forces  Earth and space  Life cycles  Environments | Changing reactions  Light: reflect and refract  Electricity: changing circuits  Respiration  Dynasties |
| Use scatter graphs/diagrams year 6 only |  | Respiration |
| Interpret data | Reversible and irreversible changes  Forces  Earth and space | Changing reactions  Light: reflect and refract  Electricity: changing circuits |
| Report | State a conclusion | Earth and space  Life cycles  Environments | Changing reactions  Respiration  Dynasties |
| Evaluate a conclusion | Earth and space  Life cycles  Environments | Changing reactions  Respiration  Dynasties |
| **Describe a casual relationship and explanations** | Reversible and irreversible changes  Forces  Earth and space  Life cycles  Environments | Changing reactions  Light: reflect and refract  Electricity: changing circuits  Respiration  Dynasties |
| Identify scientific evidence used to support or refine ideas or arguments | Earth and space  Life cycles  Environments | Changing reactions  Respiration  Dynasties |