

| 2021-2022 | AUTUMN | | | | | SPRING | | | | | SUMMER | | | |
|-----------|---|---|---|--|---|--|--|--|--|---|--|--|---|---|
| 7 | HT1 | | | HT2 | | HT3 | | HT4 | | HT5 | | HT6 | | |
| | Area of study: Investigations Key concepts: Introduction to practicals Assessment: Practical skills oracy, peer assessment | Area of study: 7A Cells Key concepts: Structures in living things Assessment: End of topic test, oracy, peer assessment | Area of study: 7F Acids and bases Key concepts: Acidity and alkalinity Assessment: End of topic test | Area of study: 7I Energy Key concepts: Stores and transfers Assessment: End of topic test | Area of study: 7B Animal Reproduction Key concepts: Making new organisms Assessment: End of topic test | Area of study: 7G Particles Key concepts: States and behaviour Assessment: End of topic test, peer assessment | Area of study: 7J Electricity and magnetism Key concepts: Circuits, current, voltage, energy Assessment: End of topic test | Area of study: 7C Muscles and bones Key concepts: Enabling of movement Assessment: End of topic test | Area of study: 7H Element, & compounds Key concepts: Arrangement of particles Assessment: End of topic test | Area of study: 7K Forces and motion Key concepts: Types of forces, measurements Assessment: End of topic test | Area of study: 7D Ecosystems Key concepts: Interdependence, energy transfers Assessment: End of topic test | Area of study: 7E Separating mixtures Key concepts: Practical methods Assessment: End of topic test | Area of study: 7L Sound and light Key concepts: Transfer and speed Assessment: End of topic test | |
| 8 | Area of study: Investigations Key concepts: Introduction to practicals Assessment: Practical skills oracy, peer assessment | Area of study: 8A Food and Nutrition Key concepts: Nutrients and digestion Assessment: End of topic test | Area of study: 8E Combustion Key concepts: Fuels and products Assessment: End of topic test | Area of study: 8I Fluids Key concepts: Density and pressure Assessment: End of topic test | Area of study: 8B Plant reproduction Key concepts: Pollination and germination Assessment: End of topic test | Area of study: Photosynthesis Key concepts: Synthesis of glucose Assessment: End of topic test | Area of study: 8F Periodic table Key concepts: Groups and trends Assessment: End of topic test | Area of study: 8K Energy transfers Key concepts: Temperature and efficiency Assessment: End of topic test | Area of study: 8C Breathing and respiration Key concepts: Gas exchange Assessment: End of topic test | Area of study: 8G Metals and their uses Key concepts: Reactions of metals Assessment: End of topic test | Area of study: Metal reactivity Key concepts: Trends in groups Assessment: End of topic test | Area of study: 8L Earth and space Key concepts: Solar system and beyond Assessment: End of topic test | Area of study: Genetics and evolution Key concepts: Generational gene transfer Assessment: End of topic test | |
| | Area of study: Investigations Key concepts: Introduction to practicals Assessment: Practical skills oracy assessment | Area of study: B6 Communicable diseases Key concepts: Pathogens and disease Assessment: End of topic test | Area of study: B6 Communicable diseases Key concepts: Vaccination and immunity Assessment: End of topic test | Area of study: C6 Extracting metals Key concepts: Chemical reactions, Industrial processes Assessment: End of topic test | Area of study: Atoms and ions Key concepts: Subatomic particles Assessment: End of topic test, oracy task | Area of study: P6 Everyday motion Key concepts: Speed and its measurement Assessment: End of topic test | Area of study: B6 Non-communicable diseases Key concepts: Risk factors and treatments Assessment: End of topic test | Area of study: C6 Materials; Crude oil Key concepts: Choosing materials; Fuels Assessment: End of topic test | Area of study: P6 powering the Earth Key concepts: Energy resources Assessment: End of topic test | Area of study: Power and National Grid Key concepts: Power to homes, efficiency of power transfer Assessment: End of topic test | Area of study: B6 Feeding the human race Key concepts: Genetic engineering, biotechnology Assessment: End of topic test | Area of study: C6 atmosphere and pollution Key concepts: Global warming, climate change Assessment: End of topic test | Area of study: 8L Earth and space catch-up Key concepts: Solar system and beyond Assessment: End of topic test | |
| 10 | Area of study: B1 Cell-level systems Key concepts: DNA, enzymes, respiration, photosynthesis Assessment: End of module test | | Area of study: C1 Particles Key concepts: The particle model and atomic structure Assessment: End of module test | Area of study: P1 Matter Key concepts: The particle model and changes of state Assessment: End of module test | | Area of study: B2 Scaling up Key concepts: Supplying the cell; challenges of size Assessment: End of module test | | Area of study: C2 Elements compounds and mixtures Key concepts: Purity, separating mixtures, bonding Assessment: End of module test | | Area of study: P2 forces Key concepts: Motion, Newton's laws and forces in action; calculations Assessment: End of module test; mock exam | | Area of study: B3 Organism-level systems Key concepts: Nervous system, endocrine system, homeostasis Assessment: End of module test | | Area of study: C3 Chemical reactions Key concepts: Formulae, equations, quantitative chemistry, energetics, redox, pH, electrolysis Assessment: End of module test |
| | Area of study: C3 Chemical reactions Key concepts: Quantitative, energetics, redox, electrolysis Assessment: End of module test; snapshot assessment | Area of study: P3 Electricity and electric fields Key concepts: Electric circuits, electric fields, uses of electricity Assessment: End of module test | Area of study: P4 Magnetism and magnetic fields Key concepts: Magnetism, magnetic fields, uses of magnetism Assessment: End of module test | Area of study: B4 Community-level systems Key concepts: Ecosystems and nutrient cycles Assessment: End of module test | Area of study: C4 Predicting reactions and products Key concepts: Trends in groups; reactivity Assessment: End of module test; mock exam | Area of study: B5 Genes, Inheritance and selection Key concepts: Variation, meiosis, natural selection and evolution Assessment: End of module test | Area of study: C5 Monitoring and controlling reactions Key concepts: Controlling rates of reaction, equilibria Assessment: End of module test | Area of study: P5 Wave behaviour Key concepts: Wave behaviour, interaction and EM spectrum Assessment: End of module test; mock exam | Area of study: C6 Global Challenges Triple content Key concepts: Industrial processes, materials, organic chem, the atmosphere Assessment: End of module test | Area of study: B6 Global Challenges Triple content Key concepts: Monitoring the environment, feeding the population Assessment: End of module test | Area of study: P7 Energy and P8 Triple content Key concepts: Work done, power and efficiency; Beyond Earth Assessment: End of module test | Students no longer on roll | | |
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