|  | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2**  | **Summer 1** | **Summer 2** |
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|  | **Chemistry** | **Physics**  | **Biology** | **Chemistry** | **Physics** | **Biology** |
| Year 7  | ***SUBSTANCES AND PROPERTIES*** *Composite materials* *Classifying materials* *Substance Solutions* *Separating solutions****PARTICLES AND STRUCTURE*** *Particle model for the solid, liquid and gas states.* *Particles in solutions* | **FORCES AND MOTION** What do forces do Describing forces Balanced and unbalanced forces Friction Energy sotres and transfers**SOUND, LIGHT AND WAVES** Production and transmission of sound Characteristics of light | ***CELLS****Living, dead and never been alive Cells and cell structures* *Cell shape and size* *Diffusion and the cell membrane* ***HEREDITY AND LIFE CYCLES*** *Heredity and genetic information The structure and function of the genome* | **PARTICLES AND STRUCTURE** Atoms and molecules Symbols and formulae Polymer properties Rearrangement of atoms **SUBSTANCES AND PROPERTIES** Comparing solubility **CHEMICAL REACTIONS** Formation of new substances | **EARTH IN SPACE** Planets and the solar system Gravity The night sky, stars and galaxies **MATTER** Temperature Heating and cooling Thermal Conduction Thermal store of energy | **CELLS** Working together: cells, tissues and organ systems. Supplying cells: the human circulatory system The human skeleton and muscles **VARIATION, ADAPATATION AND EVOLUTION** Differences within species Changes in species over time; fossil evidence |
| Year 8 | **DYNAMIC EARTH** What's in a rock Inside the earth Making rocks by heating **PARTICLES AND STRUCTURE** Representing reactions Conservation of massReactions in solution Combustion **CHEMICAL REACTIONS**Reactions in solution Combustion | **FORCES AND MOTION** Describing speed Motion graphs Changing motion Drag **SOUND, LIGHT AND WAVES** The passive eye Seeing in colour | **HEALTH AND DISEASE** Good and ill health Disease **HEREDITY AND LIFE CYCLES** Growth Lifecycles | **EARTH CHEMISTRY** Air quality Water cycle processes Acid rain **SUBSTANCES AND PROPERTIES**pH scale C**HEMICAL REACTIONS** Exothermic and endothermic reactions Neutralisation | **SOUND AND LIGHT** The ray model of light to explain images Refraction and lenses **EARTH IN SPACE** Days and seasons **FORCES AND MOTION** Mass and weight Hidden forces Turning effects | **CELLS** Plant nutrition and photosynthesis Cellular respiration **VARIATION, ADAPTATION AND EVOLUTION** Identifying and classifying organisms **HEALTH AND DISEASE** Diet and exercise |
| Year 9  | ***EARTH CHEMISTRY*** *Chemical weathering* ***DYNAMIC EARTH-*** *Physical weathering and erosion* ***SUBSTANCES AND PROPERTIES*** *Trends in physical properties* ***PARTICLES AND STRUCTURE*** *Atomic structure****CHEMICAL REACTIONS*** *Periodic patterns* | ***ELECTRICITY AND MAGNETISM*** *Making circuits* *Electric current* *Voltage Static electricity* ***SOUND, LIGHT AND WAVES*** *Waves on water and ropes* *A wave model of sound* | **HEREDITY AND LIFE CYCLES** Sexual reproduction in humans Contraception Sexual and asexual reproduction in flowering plants **ORGANISMS AND THEIR ENVIRONMENT** Food chains and food webs Interdependence within ecosystemsEcosystem components and dynamics | **PARTICLES AND STRUCTURE** Atomic Model **SUBSTANCES AND PROPERTIES**Trends in physical properties **CHEMICAL REACTIONS** Periodic patterns **DYNAMIC EARTH** Making rocks by pressure and cementing Making fossil fuels | **ELECTRICITY AND MAGNETISM** Resistance Parallel circuits Magnetic fields Electromagnets **MATTER**Floating, sinking and density Pressure in fluids Convection | **HEALTH AND DISEASE** Pathogens **ORGANISMS AND THEIR ENVIRONMENT** Biodiversity, conservation and sustainability **VARIATION, ADAPTATION AND EVOLUTION** Explaining evolution |