



Curriculum Overview for Science

Year 7

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| <p>Half Term 3:</p> <p>Substantive Knowledge: Organelles of plant and animal cells Structure and function of plant cells Parts of a microscope Hierarchy of cells, tissues, organs, organ systems, organisms Extremophiles Sampling</p> <p>Disciplinary Knowledge: Use of quadrats</p> |  | Model reading and highlighting to pick out key details, reading of data, Skim reading |
| |  | Cell, organelle, chloroplast, vacuole, cell wall, magnify, microscope, eukaryotic, prokaryotic, specialised, differentiation, unicellular, organisation, organism, Extremophiles, sampling, quadrats, density, floating, sinking, |
| |  | End of unit assessment Recall Test |
| |  | Article Homework to promote reading like a scientist Revision for end of unit assessment |
| <p>Half Term 4: Land vs Sea</p> <p>Substantive Knowledge: Sedimentary, igneous and metamorphic rocks Structure of the Earth Rock cycle Motion and forces (graphs). Newton and the unit of force. Balanced and unbalanced forces.</p> <p>Disciplinary Knowledge: Investigate the forces acting on a Rocket and how to minimise or increase them to lead to a successful launch.</p> |  | Model reading and highlighting to pick out key details, reading of data, Skim reading |
| |  | , convection, mantle, crust, tectonics, igneous, rocks, crystal, weathering, erosion, deposition, cementation, sedimentary rocks, heat, pressure, metamorphic, rock cycle. Forces, balanced, unbalanced, gravity. |
| |  | End of unit assessment Recall Test |
| |  | Article Homework to promote reading like a scientist Revision for end of unit assessment |