






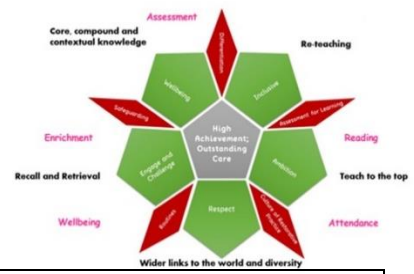


Curriculum Overview for Science

Year 8

<p>Half Term 1: Can we live on mars</p> <p>Substantive Knowledge:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Content of a healthy human balanced diet. <input type="checkbox"/> Consequences of unbalanced diet. <input type="checkbox"/> Photosynthesis. <input type="checkbox"/> Pure substances (potable water). <input type="checkbox"/> Describe and explain simple techniques of separation. <input type="checkbox"/> Earth and atmosphere (structure and composition). <input type="checkbox"/> Earth's resources. <input type="checkbox"/> Motion and forces (graphs). <input type="checkbox"/> Newton. <input type="checkbox"/> Balanced and unbalanced forces. <input type="checkbox"/> Earths tilt, gravity etc. <p>Disciplinary Knowledge:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Safe use of practical equipment. <input type="checkbox"/> Use appropriate techniques, apparatus and materials during lab work/practical. <input type="checkbox"/> Ask questions and develop a line of enquiry based on observations of the real world. <input type="checkbox"/> Make and record observations. <input type="checkbox"/> Carry out food tests. <input type="checkbox"/> Use separation techniques. 		<p>Article homework – reading for meaning, Model reading and highlighting to pick out key details, reading of data, Skim reading</p>
		<p>Forces, Balanced, Unbalanced, Gravity, Solar system, Planets, Earth, Mars, Evolution, Atmosphere, Food, Water, Warmth, Shelter, Diet, Respiration, Photosynthesis, Potable, Fertiliser, Population, Colony</p>
		<p>Recall quiz x 2 Assessment focussed on describing and comparing body systems</p>
<p>Half Term 1: The Science of Us</p> <p>Substantive Knowledge:</p> <p>Hierarchy of organisation (cells, tissues, organs, organ systems)</p> <p>Adaptions to specialised cells.</p> <p>Arrangement of the periodic table and brief history</p> <p>Basic structure of atoms (size, nucleus, electrons, protons, neutrons).</p> <p>Structure and function of the respiratory, circulatory, skeleton, digestive and muscular systems.</p> <p>How the muscular system utilises moments.</p> <p>Describe the physical and hormonal stages of puberty and difference between puberty and adolescence, including the role of hormones</p> <p>Describe the process of fertilisation.</p> <p>Pregnancy and birth</p> <p>Explain how drugs, alcohol, smoking and healthy/unhealthy living choices impact pregnancy.</p> <p>Disciplinary Knowledge:</p> <p>Use a variety of resources to summarise notes</p> <p>Ask questions and develop a line of enquiry based on observations of the real world.</p> <p>Make and record observations</p>		<p>Reading task Recall quiz x2</p>
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		<p>Cell, tissue, organ, organ system, Specialised, differentiation</p> <p>Specialised, differentiation, Group, period, metal, non-metal Proton, electron, neutron, Breathing (exhale, inhale?), alveoli, Digestion, enzymes, absorption, Heart, vein, artery, capillaries, Bone, skeleton, Muscle, tendon, ligament, cartilage, Muscle, moment, pivot</p> <p>Neuron, reflex, response, Reproduction, Sperm, ovum, fertilisation, Variation, evolution, adaptation, Puberty, adolescence, hormones, Oestrogen, progesterone, LH, FSH.</p> <p>Pregnancy, placenta, foetus,</p>
		<p>Recall quiz x 2 Assessment focussed on describing and comparing body systems</p>
		<p>Reading task</p>



Interpret data, linking in scientific concepts



Recall quiz x2
Revision for end of term assessment