

West Green Primary Early Years and KS1 Science Overview

Topic. Key vocabulary. Scientists.

Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	<p>Throughout Reception, children will experience and be taught, a range of scientific related knowledge. Our scientists will develop and explore their understanding through directed sessions and self-initiated activities, through observing, identifying and sorting, exploring, responding to and asking questions and using a variety of equipment, to enhance their understanding of the world. These will be covered through a focus on forces, floating and sinking, animals, plants, our bodies and materials.</p> <p>Observe, identify, sort, explore, questions, equipment, hear, feel</p> <p>Pull, push, stretch, attract, float, sink, life cycle, habitat, living things, seed, plant, natural world, seasons, change, weather, melt, freeze, solid, liquid, light, shadow, senses</p>					
1	<p>Sensitive bodies</p> <p>sight</p> <p>smell</p> <p>taste</p> <p>touch</p> <p>hearing</p>	<p>Seasonal changes</p> <p>weather</p> <p>season</p>	<p>Everyday materials</p> <p>glass</p> <p>metal</p> <p>plastic</p> <p>wood</p> <p>absorbent</p> <p>waterproof</p>	<p>Introduction to plants</p> <p>seed</p> <p>flower</p> <p>leaf</p> <p>roots</p> <p>stem</p>	<p>Comparing animals</p> <p>bird</p> <p>fish</p> <p>mammal</p> <p>carnivore</p> <p>herbivore</p> <p>omnivore</p>	<p>Investigate science through stories</p> <p>Plan</p> <p>observe</p> <p>measure</p> <p>diagram</p> <p>table</p> <p>sort</p>
2	<p>Use of everyday materials</p> <p>property</p> <p>elastic</p> <p>flexible</p> <p>suitable</p> <p>elastic</p>	<p>Plant based materials</p> <p>germinate</p> <p>energy</p> <p>nutrient</p> <p>life cycle</p> <p>shoot</p>	<p>Habitats</p> <p>habitats/microhabitats</p> <p>microhabitat</p> <p>minibeast</p> <p>habitat</p> <p>shelter</p>	<p>Life cycles and health</p> <p>predator</p> <p>prey</p> <p>food chain</p> <p>survive</p>	<p>Plant growth</p> <p>germinate</p> <p>energy</p> <p>nutrient</p> <p>life cycle</p> <p>shoot</p>	<p>Microhabitats</p> <p>predict</p> <p>test results</p> <p>pattern</p> <p>research</p>

West Green Primary KS2 Science Overview

Topic. Key vocabulary. Scientists.

Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2 Investigation based
3	Light and shadows light source opaque reflect translucent transparent	Forces and magnets force north pole south pole attract repel	Rocks and soils crystal fossil sediment sedimentary rock sedimentation	Movement and nutrition skeleton vertebrate invertebrate joint	Plant reproduction petal pollen pollination disperse	Does hand span affect grip strength? variable fair method investigate conclusion
4	States of matter condensing evaporating gas liquid solid	Sounds and vibrations vibration eardrum pitch volume	Electricity and circuits circuit cell/battery motor electrical conductor electrical insulator	Digestion and food saliva incisor canine molar premolar producer	Classification and changing habitats conservation deforestation endangered pollution nature reserve	How does the flow of liquids compare? Control Variable classify classification key
5	Earth and space orbit solar system Mercury Venus Earth Mars Jupiter Saturn Uranus Neptune Pluto	Does the size of an asteroid affect the diameter of its impact crater? estimate line graph data anomaly evidence	Mixtures and separation mixture soluble insoluble solution filtering sieve/sieving	Properties and changes irreversible change reversible change rust burning dissolve	Unbalanced forces air resistance water resistance gear lever pulley	Life cycles, reproduction and human timeline Adolescence* asexual reproduction sexual reproduction fertilisation* offspring germination foetus
6	Classifying big and small organism warm-blooded cold-blooded exoskeleton micro-organism Carl Linnaeus	Circuits, batteries and switches circuit diagram current resistance voltage	Light and reflection light ray optical fibre periscope pupil ray diagram	Circulation and health circulatory system blood vessels pulse heart rate carbon dioxide oxygen	Evolution and inheritance gene natural selection selective breeding variation adaptation Charles Darwin	Are some sunglasses safer than others? Rate secondary data/source evaluate reliable theory