



Cranford Park CE Primary School Science Coverage

Year 5

Animals, including humans

- Changes to old age; puberty; reproduction

Living things and their habitats

- Life cycle of mammal, amphibian, insect, bird.
- Reproduction of plants.

Properties and changes of materials

- Properties: hardness, solubility, transparency, conductivity (electrical/thermal), magnetism.
- Dissolving and mixing as reversible changes; filtering, sieving, evaporating.
- Irreversible changes; burning, chemical reactions.
- Dangers of hot and cold materials.

Earth and Space

- Solar system; movement of spherical bodies.
- Day, night & apparent movement of sun.

Forces

- Gravity, air resistance, water resistance, friction.
- Mechanisms; effect of levers, pulleys and gears.

Year 6

Animals, including humans

- Circulatory system.
- Impact of diet, exercise, drugs, lifestyle.

Living things and their habitats

Classifying microorganisms, plants, animals.

Evolution and inheritance

- Changed over time; fossils.
- Offspring vary.
- Adaptation and evolution.

Light

- Travels in straight lines; spectrum; shadows.
- How we see; dangers of lasers.

Electricity: Component function; voltage; symbols

Year 4

Animals, including humans

- Digestive system
- Types, functions and care of teeth.

Living things and their habitats

- Habitats change over time; adaptation.
- Food chains and webs.

States of Matter

- Solids, liquids or gases; change of state.
- Evaporation, condensation, water cycle.

Sound: How we hear; pitch, volume.

Electricity

- Appliances; dangers.
- Circuits; components including switches
- Conductors and insulators.

Year 2

Animals, including humans

- Offspring; stages and life cycles.
- Basic needs for survival/health.

Living things & their habitat

- Alive, once alive, never alive.
- Habitats suited to needs; co-dependency.
- Habitats, including micro-habitats
- Food sources and food chains
- Recording weather.

Plants

- Growing seeds and bulbs - needs.
- Parts/functions of flowering plants.

Uses of everyday materials

- Changing materials with force.
- Suitability of materials for particular uses.

Year 3

Animals, including humans

- Sources of nutrition
- Skeletons and muscles

Plants

- Parts of flowering plants.
- Needs of plants for life and growth

Rocks: Rocks, fossils and soils

Light

- How we see; reflectors; sun safety
- Shadows and patterns across day.

Forces and Magnets

- Forces including friction
- Magnetic materials.
- Two poles - attract or repel.

Year 1

Animals, including humans

- Animal groups, categories and structure
- Human body parts and senses

Plants:

- Common plants and trees
- Basic structure of flowering plants/trees.

Everyday Materials

- Distinguishing object from material; properties.
- Natural/man-made; recyclable/non-recyclable.

Seasonal Changes

- Changes across seasons; UK weather patterns.
- Day length varies

Forces: Forces change movements.

RECEPTION

Animals including Humans

- Body parts and functions; staying healthy
- Basic needs and features of plants and animals
- Animal groups, body parts. food types.
- Living things change over time – parent/baby.

Materials including changing materials

- Everyday materials and their properties.
- Foods which melt, then solidify/freeze.

Natural Phenomena

- Explore natural world using senses.
- Natural phenomena: weather, shadows.

Light: How light sources work.

Forces: How objects move; Floating and sinking.

Staying safe: Rules which keep us safe.