Corsham Regis Primary Academy

Science

These 5 intentions underpin our curriculum because we want our pupils to have a love of learning which they can share, a sense of understanding and pride of where they live, and be safe in different situations.

How to communicate using appropriate vocabulary

About Corsham and their local area

Through experiences inside and beyond the classroom

New knowledge and understanding appropriate to their age

How to keep themselves safe

These are the essential skills and knowledge that we want our pupils, to learn in science by the end of:

EYFS	KS1
ELG: <u>Understand the world</u> • Children know about similarities and differences in relation to places, objects, materials and living things. • They talk about the features of their own immediate environment and how environments might vary from one another. • They make observations of animals and plants and explain why some things occur, and talk about changes. In the EYFS, children use a range of 'Characteristics of Effective Learning' in their independent learning. These can be seen as complementing 'Working Scientifically'. Playing and exploring – engagement Finding out and exploring; playing with what they know; being willing to 'have a go' Active learning – motivation Being involved and concentrating; keeping trying; enjoying achieving what they set out to do Creating and thinking critically – thinking Having their own ideas; making links; choosing ways to do things.	Seasonal Change and daily weather Plants Animals, including humans Everyday materials Living things and their habitats Animals, including humans Uses of everyday materials Materials Plants Revisit: Living things and their habitats/Animals including humans
LKS2	**UKS2**
Rocks Animals, including humans Forces and magnets Plants Light Living things and their habitats States of matter Animals, including humans Electricity Sounds	Properties and changes of materials Animals, including humans Forces Earth in space Living things and their habitats Electricity Animals including humans Light Living things and their habitats Evolution and inheritance

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Knowledge Retention
Our Science curriculum is planned so that the retention of knowledge is enhanced through Topic Talk Time and Explorify sessions. This enables children to retrieve key facts regularly whilst moving through the cumulative learning in our science lessons.
Working Scientifically
Science at Regis is taught through the three subject areas: biology, chemistry and physics. Working scientifically is threaded throughout our science lessons. Children are taught to think and act as scientists.
Awareness Days
We celebrate Science Week as a whole school. We have whole school assemblies throughout the year that promote STEM and international women in science and engineering day.
Cross Curricular links
Across the school through our topic blocks, we link science learning to other subjects where relevant. Science links well with other subjects in particular STEM and DT. Children have opportunities to draw upon their science knowledge including links to other subjects such as maths through tables and graphs.
Range of Resources

Practical Equipment

- Magnifying glasses or hand lenses
- Microscopes/ visualizers (basic or digital)
- Thermometers
- Measuring jugs and cylinders
- Stopwatches and timers
- Scales or balances
- Magnets and magnetic materials
- Circuits kits (bulbs, wires, batteries, buzzers, switches)
- Seed trays, soil, and plant pots
- Pulleys, levers, and ramps
- Mirrors and prisms
- Torches and light boxes
- Skeleton and organ models

Digital & Interactive Tools

- Data loggers (for temperature, sound, light)
- iPads/tablets with science apps
- Online simulations and videos (e.g. BBC Bitesize, Explorify)
- Microscopes/visualizers with USB/digital display

Classroom Resources

- Science vocabulary on displays
- Topic boxes or kits (e.g., electricity, forces, habitats)
- Science books / encyclopedias
- Worksheets and investigation templates
- Dioramas or displays (e.g., life cycles, food chains)

Outdoor/Nature Resources

- Bug viewers
- Mini-beast identification guides
- School greenhouse / gardening supplies
- Bug hotel

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As a scientist leaving Regis, every child will:

have the skills to work scientifically by asking meaningful questions, planning and carrying out investigations, observing and measuring accurately, recording and interpreting data, and drawing evidence-based conclusions with confidence and curiosity.

have a secure knowledge of the disciplines of biology, physics and chemistry with excellent knowledge and skills in which they can take to develop further in secondary school and beyond.

have experienced a wide range of investigations and demonstrations including WOW days and science and engineering visitors.

be inspired by diverse, famous scientists, to understand the range of science career opportunities and to understand the fact that science is ever changing and they could be part of a new discovery!