

## Science Curriculum at Shaw

Our core aim is to support children to "Explore God's amazing universe..."



### Intent:

At Shaw, our vision is to ignite curiosity through the teaching of science. The teaching aims to support both an understanding of and skill development in science, whilst igniting the natural curiosity of our pupils to the world around us. Our aim is for pupils to have the understanding that science has changed our lives, our planet and is vital to the world's future prosperity. We want pupils to be engaged by a science curriculum that introduces them to aspects of biology, chemistry and physics, preparing them for future opportunities to study science in secondary education and opening their eyes to the real possibility of a future career in the scientific world.

Our science curriculum allows all pupils to obtain scientific knowledge and skills through a range of enquiry to help them think like a scientist, develop an understanding of scientific processes, and to understand the implications and uses of science today and for the future. We enable all pupils to feel they are scientists and capable of achieving. We believe that the opportunities offered will ensure that children at Shaw are confident, life-long learners who will explore the world around them.

A key aim of the science curriculum at Shaw is to develop children's oracy and vocabulary to enable them to talk, share their knowledge and ideas, question and debate.

Implementation:

The science curriculum at Shaw is a spiral, knowledge-rich curriculum building upon previous knowledge and linking to what they will learn next. It is taught weekly through programmes of study (or units) in line with Development Matters Guidance and the National Curriculum. We use Developing Experts as our spine to the curriculum and draw upon other resources as required to make the curriculum personal to that class.

The curriculum is taught through a hands-on, enquiry-based curriculum, children will experience the joy of having wonderful ideas, exploration and investigation - that is, the joy of finding out. Children will also be taught key science skills, through whole class learning, encouraging children to ask as well as answer scientific questions, use a variety of data, graphs, pictures and photographs; using ICT to enhance learning; discussions in class and real-life science activates.

We follow a philosophy of 'keep up' rather than 'catch up' at Shaw. This means that learning the teacher feels is not secure within the class is given time within the year group it is taught rather than passing it on to the next teacher to 'catch up'.

Programme of study taught:

EYFS	Me and my body	Materials	Animals	Space	Machines	Insects	Plants	Food	Seasonal Changes
Y1	Plants		Animals Inc. Humans		Everyday Materials		Seasonal Changes		
Y2	Plants		Animals Inc. Humans		Uses of Everyday Materials		Living things and their habitats		
Y3	Plants		Animals Inc. Humans		Light		Rocks		Forces & Magnets
Y4	Electricity		Animals Inc. Humans		States of Matter		Living things and their habitats		Sound
Y5	Earth & Space		Animals Inc. Humans		Properties & Changes of Materials		Living things and their habitats		Forces
Y6	Electricity		Animals Inc. Humans		Light		Living things and their habitats		Evolution & Inheritance

### Impact:

Children will be engaged and enthusiastic about science in school - using their naturally inquisitive minds to further their own learning.

Staff and pupil voice, book looks and learning walks, will gather feedback about the science curriculum at Shaw. These actions along with use of summative and formative data will demonstrate the impact of science teaching and inform future actions, in order to continue to develop a curriculum tailored to our children's needs which is embedded and engaging.

What are our end-points? What knowledge, skills and understanding do we want children to have on leaving Shaw School?

- The ability to think independently and raise questions about working scientifically and the knowledge and skills that it brings.
- Confidence and competence in a range of practical skills, and the ability to plan and carry out scientific investigations.
- Excellent Scientific knowledge and understanding of the areas studied which is demonstrated in written and verbal explanations, solving challenging problems and reporting scientific findings.
- A passion for Science and its application in past, present and future technologies.