



## Science at NSN

At Northfield St Nicholas, we recognise the importance of science in our daily lives and encourage children to be inquisitive about the world around them, and understand the uses and implications of Science, today and for the future.

Our curriculum is based on ASUPERHERO model, we will endeavour to make it aspirational, sensory, unforgettable, progressive, exciting and engaging, relevant, and develop hope, emotional literacy, and reading and provide children with as many opportunities as possible.

By using The National Curriculum guidance, we have been able to create a curriculum that; develops scientific knowledge and understanding in the three key disciplines of biology, chemistry and physics and provides the structure and skill development and progression at an age-appropriate level. We ensure that 'Working Scientifically' skills are developed and progress throughout children's time at the school so that they can apply their knowledge of science when using equipment, conducting experiments, building arguments and explaining concepts confidently and continue to ask questions and be curious about their surroundings.

### This is how we do it here...

- Our Science curriculum is based on The National Curriculum and its guidelines.
- Lessons will be taught in sequences to ensure the children can make links within their learning, show progression clearly and identify key areas that may need further development.
- Each science area of learning will begin by presenting the children with ASUPERHERO and explaining what we will be offering them throughout this topic.
- We explain **why** we are teaching each specific sequence of learning and explain **how** it is relevant to the children's lives – now and in the future.
- Each topic will begin by identifying which objectives the children will be learning across the sequence – this should be closely related to ASUPERHERO.
- Each sequence will begin with a 'Know and Wonder' activity exploring what children already know about this topic and what they wonder. This will support teachers to identify gaps in prior knowledge and allow them plan accordingly.
- Throughout every sequence the children will have the opportunity to demonstrate their knowledge and understanding by working scientifically, by observing, predicting, planning, investigating and analysing & evaluating. This will be presented in books to evidence progress of learning.
- Progression documents in science knowledge, vocabulary and the skills of working scientifically will inform planning and sequences of learning. This is supported by Plan Bee teaching sequences and Developing Experts investigations.
- Science lessons will promote reading and the children using reading skills to discover information.
- Children will use a range of resources to gather information.
- Where appropriate, children will be given opportunities to investigate and apply their scientific understanding within their local area.
- Knowledge organisers will be a crucial part of the children's learning. They should have these available to refer to within lessons. These will also be shared with parents.
- We will promote the use of scientific language.

### SEND provision:

- SEND pupils will be supported within class to ensure they can access all learning through use of visual, concrete resources & scaffolding.
- Alternative teaching strategies and where appropriate targeted, effective and necessary intervention will be in place to provide a bespoke curriculum for SEND pupils