KNOWLEDGE ORGANISER

Working Scientifically (Years 1 & 2)

National curriculum statutory requirements

Pupils should be taught to use the following practical scientific methods, processes and skills:

- asking simple questions and recognising that they can be answered in different ways
- observing closely, using simple equipment
- performing simple tests
- identifying and classifying
- using their observations and ideas to suggest answers to questions
- gathering and recording data to help in answering questions.

We can **observe** the weather.

The weather outside can help us to identify the season.

Key vocabulary and expectations

Scientific language	Children use simple scientific vocabulary.
Questioning	Children ask **questions** to find out more about a science topic.
Testing	Children can carry out simple **tests**.
Observing and measuring	Children are supported to **observe** the world around them and the outcomes of tests. They may use basic **equipment** to perform **measurements**.
Identifying and classifying	Children should be able to **group** and **compare** objects, materials and living things.
Data handling	Children can record simple **data**. With guidance they should begin to notice **patterns** in the data, e.g. the height of a plant increasing over time.
Reporting	Children can talk about what they have found out and how they found it out.

What questions can we ask about this living thing?

What type of tree is this?

Where does it grow? Does it need a particular habitat?

Does this tree provide food for other living things? Is it part of a food chain?

How could we test the best way to grow plants?

What can I measure?

What equipment would I need?

How could we **compare** these materials?

Can we **group** them with other materials?

Let's talk about what we find out.

I use scientific language.

Let's record what we find out.