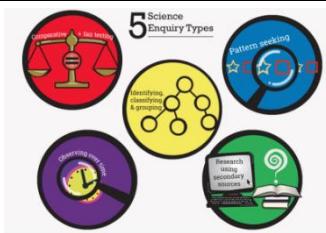


## Y4/5 Science: Big Science Event



### Why are we learning about the Big Science Event?

We are **building on previous learning about** working scientifically throughout all year groups. We are applying our knowledge of a range of science subjects as we carry out scientific enquiries from planning to presenting our results and developing our knowledge of fair tests.

This **new learning is important because** it helps us to understand how to ask relevant questions so we can set up practical enquiries, to make systematic and careful observations and draw conclusions from our results. These skills are applicable across the curriculum, helping us to build on previous learning in geographical and historical skills too.

This **will help us get ready for future learning** about planning scientific enquiries to answer questions, including being able to recognise and control variables, which will be used throughout KS3. The Big Science Event can also introduce us to a range of scientific equipment that will be used in later schooling and life when increasing accuracy and precision in findings.

### Important questions to answer:

- What makes a good scientific question?
- How should we set up our practical investigation to answer our question?
- What observations do we need to make?
- What conclusions can we draw from our results?
- How can we best present and report on our findings?

### Experiences we will have:

- Plan & conduct our own scientific experiment in a small group
- Present our results to the class & choose our class winner
- Present our work to the school / Science Oxford

### Things we need to know:

- To know that there are 5 main types of scientific enquiry, designed to answer questions
- To know that the question I am asking will determine the type of enquiry I conduct and how to set up a scientific enquiry to answer my specific question
- To know what methods to use to carry out my investigation, record my results and how to draw conclusions.
- To know that there are a range of ways of recording results, which are more or less effective for different enquiries
- To know how to report my findings succinctly, sharing results of our enquiry with conclusions and an evaluation.

### Skills we need to learn:

- I can **identify** the different types of scientific enquiry
- I can **choose** the right type of enquiry to answer my question
- I can **make observations** carefully and systematically
- I can **record my findings** in a scientific and effective way
- I can **present my findings** coherently

### Subject Specific Vocabulary:

conclude	evidence	reliability
constant	hypothesis	similarities
control	interpret	support
differences	investigate	validity
enquiry	precision	variables

