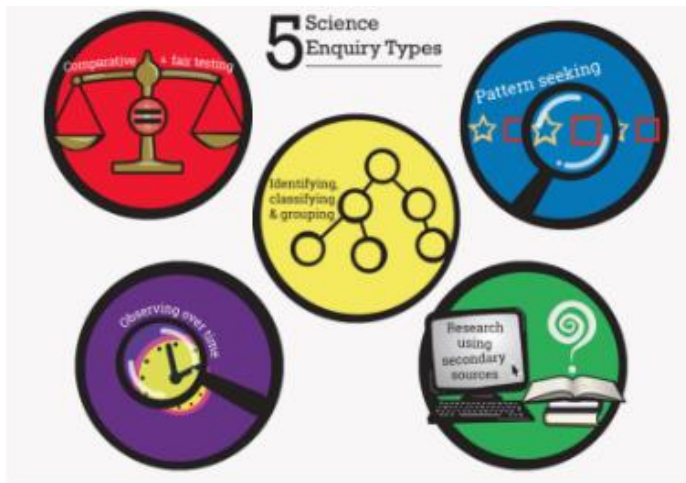


Y5&6 Science: Big Science Event



Why are we learning about the Big Science Event?

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

This **new learning is important because** it helps us to understand how to ask relevant questions to set up practical enquiries, to be able 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 enquiry too.

This **will help us get ready for future learning** about planning scientific enquiries to answer questions, which will be used throughout KS3. It will also help us as we plan enquiries in a range of subjects. Living near Oxford, there is a wealth of jobs available in the science sector, and this project prepares us for this.

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 and what conclusions can we draw from our results?
- What is the most effective way of reporting 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 the 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:

hypothesis	conclude	support
differences	evaluate	refute
similarities	control	degree of trust
variables	investigate	reliability
enquiry	evidence	validity
constant	interpret	categories