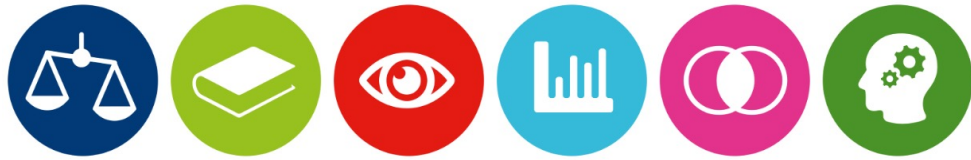


Science through School

Scientific Enquiry Approaches



pupils should carry out several investigations which involve different types of enquiry:

- **comparative / fair testing**
- **research**
- **observation over time**
- **pattern seeking**
- **identifying, grouping and classifying**
- **problem solving**



<https://pstt.org.uk/resources/curriculum-materials>

Scientific Enquiry Skills



pupils should have the opportunity to carry out practical investigations in science that help them to develop their scientific skills. These skills are sometimes referred to as a cycle or 'PLAN, DO, REVIEW'. We know these skills as *working scientifically* skills.

- **asking questions**
- **making predictions**
- **setting up tests**
- **observing and measuring**
- **recording data**
- **interpreting and communicating results**
- **evaluating**

Scientific Enquiry Skills

Asking questions

Asking questions that can be answered using a scientific enquiry.



Making predictions

Using prior knowledge to suggest what will happen in an enquiry.



Setting up tests

Deciding on the method and equipment to use to carry out an enquiry.



Observing and measuring

Using senses and measuring equipment to make observations about the enquiry.



Recording data

Using tables, drawings and other means to note observations and measurements.



Interpreting and communicating results

Using information from the data to say what you found out.



Evaluating

Reflecting on the success of the enquiry approach and identifying further questions for enquiry.

