



Planning Enquiries

6

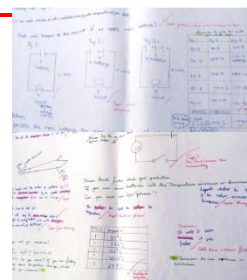
Children choose the type of enquiry needed to carry out their investigation.

Children can pose and answer their own questions, controlling variables where necessary independently.

Decide whether they need to increase the sample size for validity.

Children understand how to gather data to prove a prediction.

Can identify a range of factors which may affect their investigation.

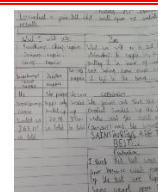


5

Recognise when and how to set up comparative and fair tests and explain which variables need to be controlled and changed.

Can identify independent and dependent variables to identify causal relationships.

Understand what type of scientific enquiry is needed to answer and prove/disprove scientific questions or phenomenon.



4

Can identify the type of enquiry needed to answer a question.

Follow a plan to carry out observations and tests.

Can select from a range of resources to gather evidence and answer questions, to classify, compare and perform fair tests.

Use post it note planning approach with more independence in identifying variables and what needs measuring. Children choose their method to carry out the investigation.



3

Perform a range of scientific investigations including different types of scientific enquiry.

Set up practical enquiries: comparative, and fair tests.

(post it note approach scaffolded by the teacher).

Children investigate and answer own questions linked to shared planning Frame e.g. post it note approach (Scan QR Code)

Understand there are different variables to be controlled. (Can identify some variables e.g. what was changed and what was kept the same)

Follow basic instructions scaffolded by the teacher to conduct investigation.

Use a range of equipment including thermometers and data loggers (with support).



We are investigating	
The variables we could change	The variables we could measure/observe
We will change	We will measure/observe
Our question is	that will happen to

2

Carry out simple comparative tests using own ideas

(May use Discovery Dog model)

Experience different types of enquiry including practical activities.

Within the planning frame can suggest resources they may need for the test.



1

Can carry out simple tests linked to the types of enquiry: observation, testing, pattern seeking, identifying and classifying and research.

Begin to recognise different ways they may answer scientific questions.

Experience different types of enquiry including practical activities.

Use practical resources provided by the teacher and can suggest some resources of their own e.g pipettes, viewers, magnifying glasses.

Can carry out simple tests to classify, compare or pattern seek.



F.

Find ways to solve problems/find new ways to do things.

Test out ideas.

Take risks through trial and error.

Engage in open ended activities.

Choose the resources they need for their chosen activity from their environment.



