

# Year 3 - Scientific Enquiry - Half Term 6

## The Scientific Method

**Comparative / fair testing**  
 Changing one variable to see the effect on another, whilst keeping all others the same.

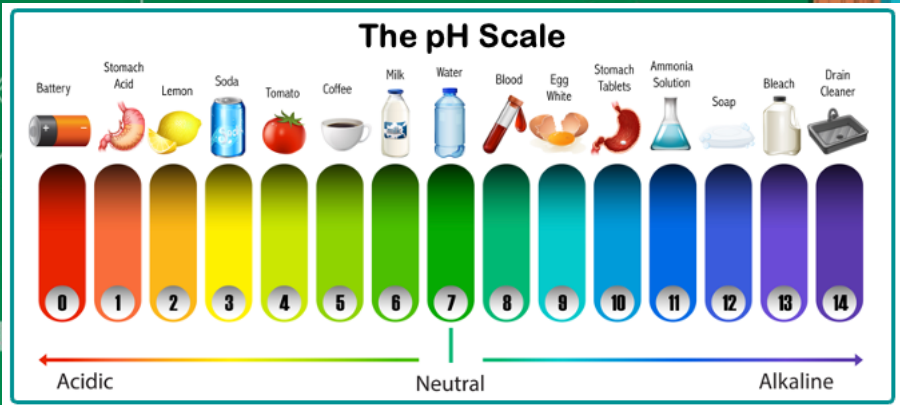
**Research**  
 Using secondary sources of information to answer scientific questions.

**Observation over time**  
 Observing changes that occur over a period of time, ranging from minutes to months.

**Pattern-seeking**  
 Identifying patterns and looking for relationships in enquiries where variables are difficult to control.

**Identifying, grouping and classifying**  
 Identifying observations to name, sort and organise items.

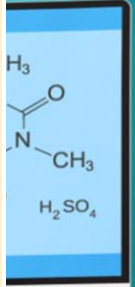
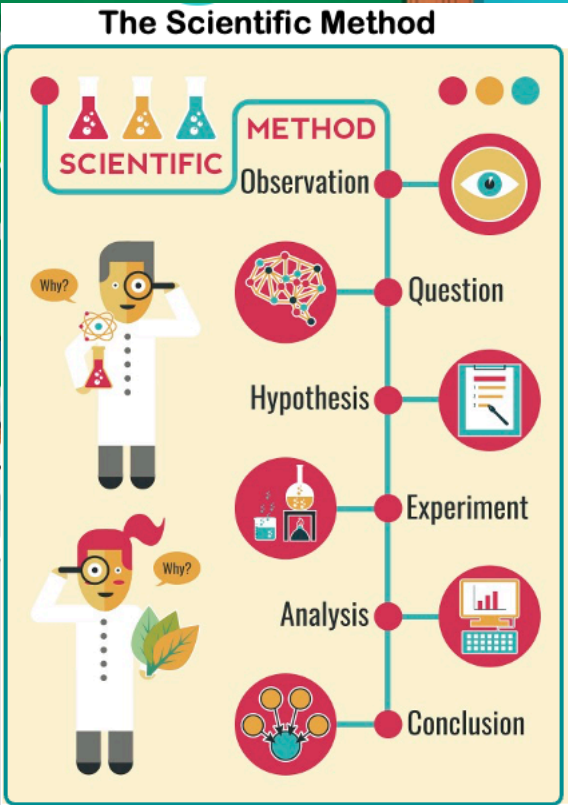
**Problem-solving**  
 Applying prior scientific knowledge to find answers to problems.



**fair test** – where one variable is changed, and all other elements are kept the same

**variable** - something that is changed

**control experiment** - an experiment that is used to compare other experiments where there are variables



### Key Vocabulary

scientific investigation	finding answers to questions using research methods
prediction	explaining what you think might happen
plausible	having a reason
record	writing the measurement of something
data	a set of facts or numbers used to learn about something
method	instructions for carrying out an experiment
control experiment	an experiment that is used to compare other experiments where there are variables
equipment	tools or items that are needed
enquiry	a question to find something out
practical	the performing of a scientific experiment
conclusion	the end result or outcome
fair test	where one variable is changed and all other elements are kept the same

### To know statements



I know how to pose a question.	
I know how to write a prediction.	
I know how to write a method.	
I know how to carry out a practical test – making careful observations and taking accurate measurements as appropriate.	
I know how to record and present results in different ways.	
I know how to use my results to draw and write simple conclusions.	
I know about fair testing - controls and variables.	

What can you remember from previous units?

What science investigations have you done?  
 How did you set them up?  
 How can you measure or observe results?  
 What did you find out?

Anything else you have learnt? What have you enjoyed?



