



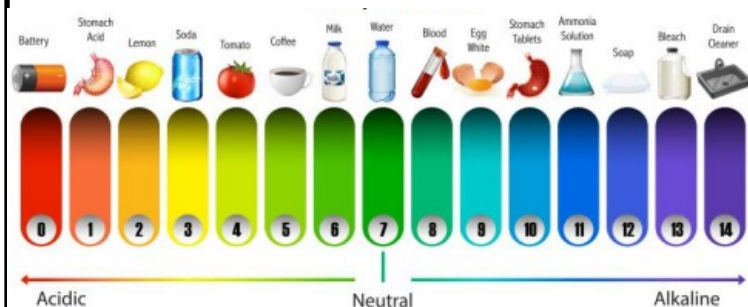
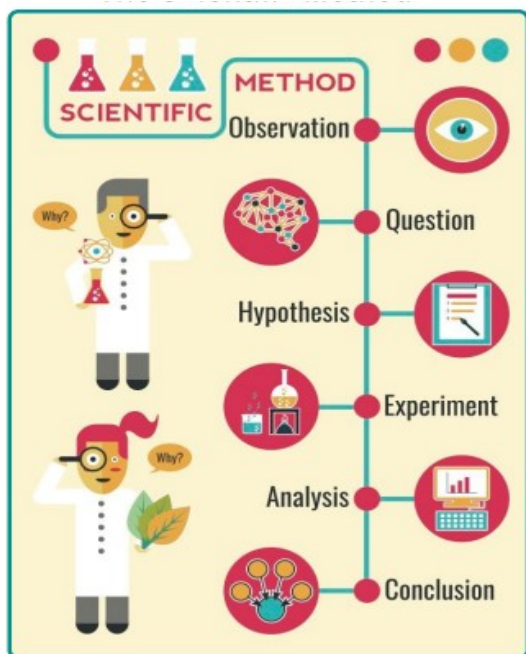
## Y3 Thinking like a scientist

### Scientific Enquiry

#### Key Knowledge:

- The first stage of a scientific investigation is to ask a question you would like to find an answer to. These must be open questions not 'yes' or 'no' questions.
- Fair testing means changing one variable to see the effect on another, whilst keeping all the others the same.
- Research means using secondary sources of information to answer scientific questions.
- Observation of time means observing changes that occur over a period of time, ranging from minutes to months, to years.
- Scientists use their results to identify patterns and look for relationships in enquiries where variables are difficult to control.

#### The Scientific Method



## Learning Questions

### How can a solar oven be made more effective?

- What do I predict will happen?
- How can I investigate and record my findings?

### How can I carry out an experiment to clean coins?

- How can I share my findings from my experiment?

### Cake baking: How can I carry out a fair test?

- How can I share my findings from my experiment?

### What else do you know?

#### Key vocabulary

scientific investigation	finding answers using
prediction	explaining what you
plausible	having a reason
record	writing the measure-
data	a set of facts or numbers used to learn about
method	instructions for carrying
control experiment	an experiment that is used to compare other experiments where they
equipment	tools or items that are
enquiry	a question to find some-
practical	the performing of a sci-
conclusion	the end result or out-
fair tests	where one variable is changed and all other elements are kept the same.