



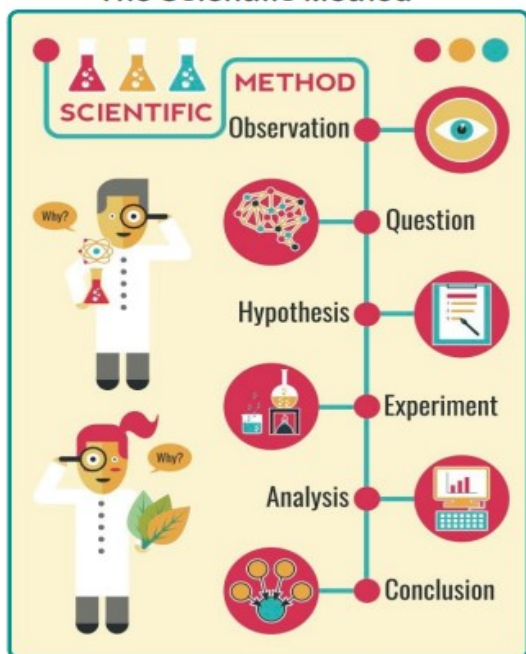
## Y3 Thinking like a scientist

### Scientific Enquiry

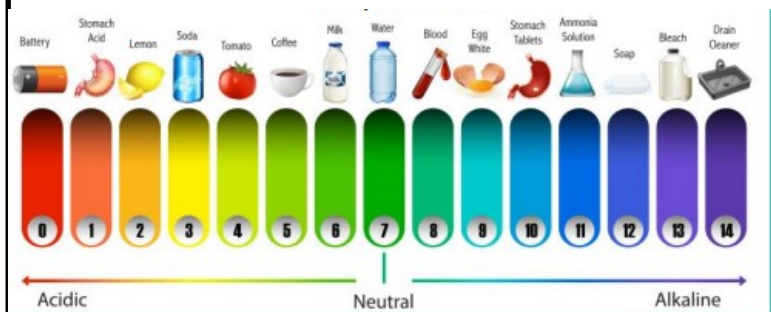
#### Key Knowledge:

- 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



#### The pH Scale



## 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 num- bers used to learn
method	instructions for carry-
control experiment	an experiment that is used to compare other experiments where
equipment	tools or items that are
enquiry	a question to find
practical	the performing of a
conclusion	the end result or out-
fair tests	where one variable is changed and all other elements are kept the same.