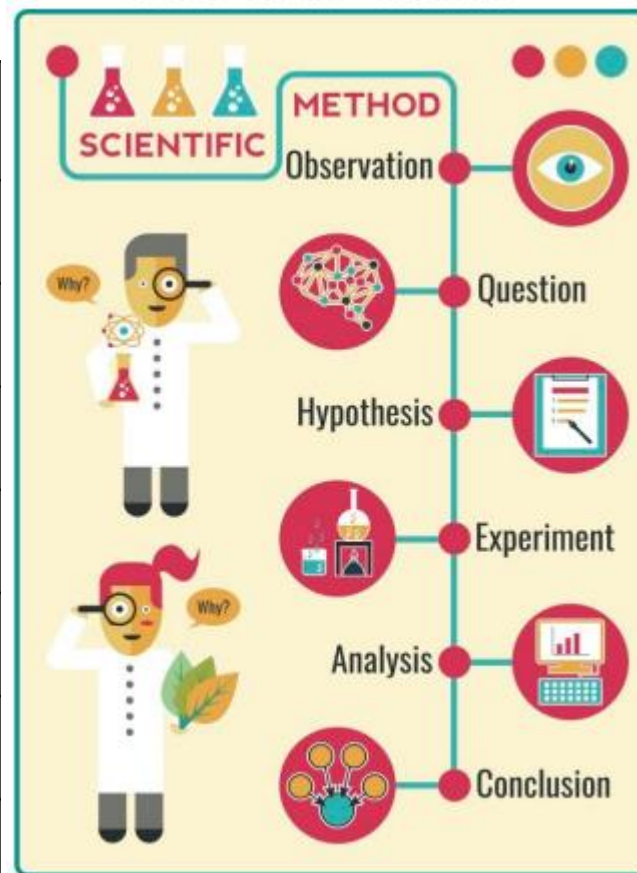
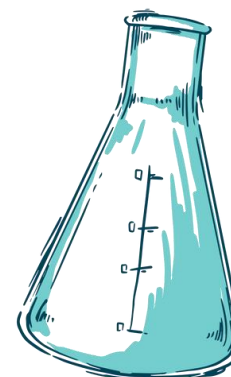


Scientific Enquiry

KNOWLEDGE ORGANISER



ESSENTIAL FORCES AND MAGNETS 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
position	a place where something is located
motion	action or process of moving
material	anything used to make something else

FAIR TEST

Where one variable is changed, and all other elements are kept the same.

CONTROL EXPERIMENT

An experiment that is used to compare other experiments where there are variables

VARIABLE

Something that is changed.

MAKING LINKS TO PREVIOUS LEARNING GOLDEN VOCABULARY

Light (Y3)	You can move an object to a new position .
Forces and Magnets (Y2)	Move in a forwards or backwards motion .
Uses of everyday materials (Y2)	Pieces of clothing are made out of a material .

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.