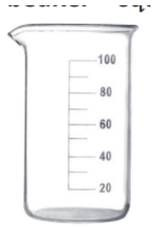
Y4 Science Knowledge Organiser – Working Scientifically

Vocabulary

Key	A picture, colour or word to identify what something is
Observe	Use your senses to examine something
Increase	Where the number or size of something gets bigger
Decrease	Where the number or size of something gets smaller
Primary source	Something you experience firsthand i.e. observing it in front of you
Secondary source	Someone that didn't witness it firsthand i.e. a written book
Scientific evidence	Information collected through scientific methods

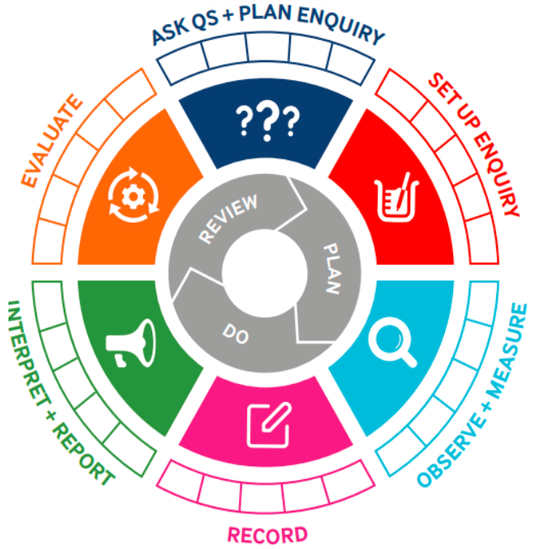


Decibel meter

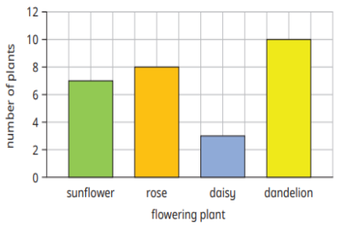


Beaker

Working Scientifically Skills



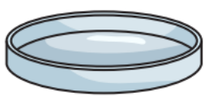
- **bar chart** – a chart that uses bars of different lengths to represent data



- **pictogram** – a chart that uses pictures to represent data

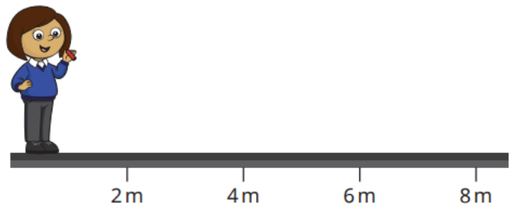
Flowering plant	Number seen
sunflower	●●●◖
rose	●●●●
daisy	●◖
dandelion	●●●●●

Key ● = 2 plants



Petri dish

- **independent variable** (what will change) – the distance from the sound source



- **dependent variable** (what will be measured) – the volume of the sound heard in decibels



- **controlled variables** (what is kept the same) – the volume of the sound source and the level of background noise (wherever possible)



Types of Scientific Enquiry

