## YEAR 8 - REASONING WITH DATA

@whisto maths

# The data handling cycle

### What do I need to be able to do?

#### By the end of this unit you should be able to:

- Set up a statistical enquiry
- Design and criticise questionnaires
- Draw and interpret multiple bar charts
- Draw and interpret line graphs
- Represent and interpret grouped quantitative
- Find and interpret the range
- Compare distributions

#### Keywords

Hupothesis: an idea or question you want to test

Sampling: the group of things you want to use to check your hypothesis

Primary Data: data you collect yourself

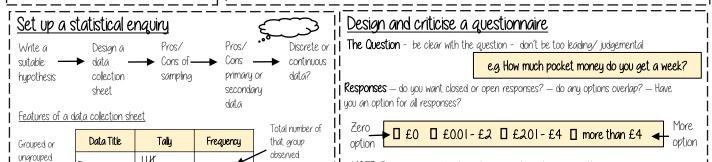
Secondary Data: data you source from elsewhere e.g. the internet/ newspapers/ local statistics

Discrete Data: numerical data that can only take set values

Continuous Data: numerical data that has an infinite number of values (often seen with height, distance, time) Spread: the distance/how spread out/variation of data

**Overage:** a measure of central tendency — or the typical value of all the data together

**Proportion:** numerical relationship that compares two things





- Gaps between the lines



