# Year 10 Mathematics Learning Journey: Unit 13 - Delving into Data

# Step 15: Extrapolation

When might is be appropriate to extrapolate beyond the range of given values?

## Step 14 (R): Lines of best fit

Does the line of best fit always have to go through the origin?

## Step 13 (R): Scatter Graphs

How can you tell if a correlation is positive or negative?

## Step 12: Comparing distributions

If the averages of two data sets are similar but the ranges are very different, what does that tell you?

# Step 7: Criticise charts and graphs

Why might someone want to use a graph to make differences look bigger / smaller?

#### Step 8 (R): Averages from a list

Compare the means of the first five multiples of 3 and the first five square numbers.

#### Step 9 (R): Averages from a table

How do you work out the midpoint of a class interval?

# Step 10: Time series graphs

How can you identify a general trend on a time series graph?

## Step 11: Stem and leaf diagrams

How do we work out where the median is in a stem and leaf diagram?

#### Step 5: Line and bar charts

What's the difference between a multiple bar chart and a composite bar chart?

## Step 3: Frequency tables and polygons

Given the endpoints of a class interval, how do you work out the midpoint?

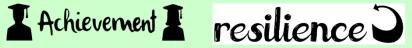
# Step 2: Primary and secondary data

Why might some secondary sources of data be biased?

## Step 1: Population and samples

Why do statisticians take samples rather than interview the whole population?











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