Blurt it

Step 1

Name _____ **Date** _____

1. Cover your notes and put your phone face down.
2. Set a timer for 5 minutes.
3. Write down everything you remember about data representation and scatter graphs: methods, key words, examples, and mistakes to avoid. Diagrams count too.

Stuck? Start with one of these: correlation · line of best fit · sampling

When the timer ends, turn over and check what you remembered.

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Check it, fix it, space it

Steps 2, 3 and 4

Check it

Tick each idea you wrote down, even in your own words.

- [ ] Draw and read bar charts, pictograms and pie charts
- [ ] Pie charts: angle = frequency ÷ total × 360°; reverse it to read a frequency
- [ ] Frequency polygon: plot each frequency at the class midpoint and join with straight lines
- [ ] Draw and read time-series graphs, which show how something changes over time
- [ ] Scatter graphs show positive, negative or no correlation
- [ ] Draw a line of best fit by eye and use it to predict within the data
- [ ] Predicting beyond the data (extrapolation) is less reliable than predicting within it
- [ ] Correlation does not mean that one thing causes the other
- [ ] A sample is used to find out about a whole population
- [ ] A sample can be too small or biased, so it may not represent the population

Higher only

- [ ] Describe the strength of a correlation, such as strong or weak
- [ ] Histograms with unequal class widths: frequency density = frequency ÷ class width
- [ ] Plot frequency density, not frequency: the area of each bar shows the frequency
- [ ] Random sampling: every member of the population has an equal chance of being chosen
- [ ] Stratified sampling: each group is sampled in proportion to its size in the population

Key words to use: bar chart · pictogram · pie chart · frequency polygon · time-series graph
scatter graph · correlation · line of best fit · interpolation · extrapolation · histogram · frequency density

I remembered _____ out of 10. **Higher only: _____ out of 5.**

Fix it

Pick 3 ideas you missed. Look them up, then write each one correctly.

1	2	3

Space it

Blurt again on a fresh sheet. Gaps help you remember for longer.

Tomorrow
Date _____
Score _____ / 10
Higher only _____ / 5

In 3 days
Date _____
Score _____ / 10
Higher only _____ / 5

In a week
Date _____
Score _____ / 10
Higher only _____ / 5

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