Analyse data and information to describe patterns, trends and relationships...

analyse data and information to describe patterns, trends and relationships and identify anomalies

Learning intention

- analyse data and information to describe patterns, trends and relationships and identify anomalies

Teach and model

- identifying correlational relationships in data such as: ‘Dropping a mass from a greater height produces a larger indentation’ and analysing this relationship for causality
- describing measures of central tendency such as mean, mode and median and identifying outliers for quantitative data
- using spreadsheets to analyse second-hand data such as daily power output of solar panels and examining anomalies such as periods of reduced output

Check understanding

- Explain the main idea in analyse data and information to describe patterns, trends and relationships... using an example.
- Show the idea in a second way: with words, a model, a diagram or symbols.
- Apply the idea to a short unfamiliar situation and justify the result.

Teaching cautions

- Ask the student to explain their choice, not only state an answer.
- Check that key vocabulary is understood in a new example.
- Mix representations so the skill is transferred rather than copied.

Quick lesson sequence

- Connect to prior knowledge and introduce the key vocabulary.
- Model one clear example, then solve a second example together.
- Finish with an independent check and a short student explanation.