Identify the explanatory variable and fit a reasonable line by eye.

Key skills | Free preview

Learning target: Identify the explanatory variable and fit a reasonable line by eye.

A scatterplot keeps the two measurements from each observational unit together. Put the explanatory variable on the horizontal axis and describe direction, form and strength before drawing a line. A by-eye line is a plausible summary, not a unique numerical answer. Its usefulness depends on the data range and the context of the measurements.

Try the mathematics

Task 1. For x=0,1,2,3,4, measured y values are 1,3,4,7,8. Draw the scatterplot and describe the association. Test y=2x+0.6 as a reasonable by-eye line by listing residuals.

Continue with the full worksheet

The complete resource has 2 focused task sets and substantive worked solutions. Use an exercise book or print the A4 worksheet. This preview shows the first task without its full solution.

Find this resource: https://resources.aspiretopowerlearning.com.au/vce/skills/aspire-internal-gm-u2-o1-aos1-ks-02/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Unit 2; Outcome 1; Key skills; Investigating relationships between two numerical variables; bullet 2; p. 38.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u2-o1-aos1-ks-02. This is an internal identifier, not an official VCAA code.

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