Understand how scatterplots show the nature of numerical association.

Key knowledge | Free preview

Learning target: Understand how scatterplots show the nature of numerical association.

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-kk-02/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Unit 2; Outcome 1; Key knowledge; 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-kk-02. This is an internal identifier, not an official VCAA code.

Free preview: share intact with attribution, without charging. Full resource rights are not included.

Original independent practice. Not published or endorsed by VCAA. The activity is not an official SAC, examination or complete treatment of every clause of a broad curriculum requirement.