Connect the numerical, graphical and symbolic forms of a model or equation.

Key knowledge | Free preview

Learning target: Connect the numerical, graphical and symbolic forms of a model or equation.

A statistical tool needs the explanatory and response columns in the correct order. Calculate the fitted coefficients, correlation and residuals, then inspect plots rather than relying on one summary number. Retain original data beside outputs so an individual row can be checked by hand. A documented workflow makes the numerical and graphical conclusions independently reproducible.

Try the mathematics

Task 1. Put x=1,2,3,4,5 in A2:A6 and y=2,4,5,4,5 in B2:B6. Use SLOPE(B2:B6,A2:A6), INTERCEPT(B2:B6,A2:A6), CORREL(A2:A6,B2:B6) and RSQ(B2:B6,A2:A6), or equivalent calculator functions. State expected outputs.

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-u34-o3-cross-kk-05/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Units 3–4; Outcome 3; Key knowledge; bullet 5; p. 93.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u34-o3-cross-kk-05. 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.