Choose and justify technology functions for data analysis, recurrences and financial models.

Key skills | Free preview

Learning target: Choose and justify technology functions for data analysis, recurrences and financial models.

Different technologies can produce plausible-looking numbers while answering different questions. Match the chosen function to the mathematical model, specify its inputs and explain the output's units or meaning. A regression function fits observed pairs, whereas a financial solver uses a cash-flow model and timing assumptions. Each result still needs a contextual and numerical check.

Try the mathematics

Task 1. Choose a suitable tool function for (a) predicting y from paired values x=1,2,3,4,5; y=2,4,5,4,5, and (b) finding a payment for a $10000 loan over 12 end-month periods at 1% per month. Give the expected numerical 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-ks-09/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Units 3–4; Outcome 3; Key skills; bullet 9; p. 94.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u34-o3-cross-ks-09. This is an internal identifier, not an official VCAA code.

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