Generate tables, graph families or related outputs to investigate a pattern or model.

Key skills | Free preview

Learning target: Generate tables, graph families or related outputs to investigate a pattern or model.

A graph family reveals how a parameter changes a model while its form remains fixed. For inverse variation, the constant describes a fixed total product, and increasing it scales predicted times at every positive input. Use a common graph window and the same input table for each model so apparent changes are mathematical, not consequences of different display settings.

Try the mathematics

Task 1. In a spreadsheet or graphing tool compare T=k/w for k=12,24,36. Generate values at w=1,2,3,4,6,12 and plot the three curves or discrete worker-count points on one window.

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-o3-cross-ks-05/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Unit 2; Outcome 3; Key skills; bullet 5; p. 41.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u2-o3-cross-ks-05. This is an internal identifier, not an official VCAA code.

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