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 parameter investigation holds the model structure fixed while varying a meaningful input. Tables or graph families show how the outcomes change, but all runs must use the same starting value and timing convention. Compare values only while the balances remain within the context, and do not interpret a negative computed loan balance as a required extra repayment.

Try the mathematics

Task 1. In a spreadsheet model $B(n+1)=1.01B(n)-P$ with $B0=1000$. Use three columns for $P=250,260,280$ and calculate balances through $n=3$. Describe their graph family.

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-05/

Study-design reference

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

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