Choose graph windows that reveal the important features of a model.

Key skills | Free preview

Learning target: Choose graph windows that reveal the important features of a model.

Graph windows can hide key features or suggest invalid input values. For inverse variation, zero is excluded and a practical model may restrict the remaining domain to positive integers. Inspect a table along with the graph, label the axes and avoid treating a curve outside the valid domain as a meaningful prediction for the original situation.

Try the mathematics

Task 1. For a job model $T=24/w$ hours, enter the relation in a graphing tool using $1\le w\le 12$ and $0\le T\le 26$. Make a table at $w=1,2,3,4,6,12$ and identify the practical domain if w counts workers.

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-06/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Unit 2; Outcome 3; Key skills; bullet 6; p. 41.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u2-o3-cross-ks-06. 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.