Convert between a linear rule, its table of values and its graph.

Key skills | Free preview

Learning target: Convert between a linear rule, its table of values and its graph.

Equivalent linear equations describe the same set of points. Rearranging into slope-intercept form makes the constant rate of change and vertical intercept visible. A table supplies checkable coordinates, and two distinct points determine the line. Intercepts have different roles: one occurs where the horizontal variable is zero, the other where the vertical variable is zero.

Try the mathematics

Task 1. Rewrite $2x+3y=18$ in slope-intercept form. Create a table for $x=0,3,6,9$ and draw the line, labelling both intercepts.

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-u1-o1-aos3-ks-03/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Unit 1; Outcome 1; Key skills; Linear functions, graphs, equations and models; bullet 3; p. 32.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u1-o1-aos3-ks-03. This is an internal identifier, not an official VCAA code.

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