Understand scientific notation, approximation, significant figures and rounding.

Key knowledge | Free preview

Learning target: Understand scientific notation, approximation, significant figures and rounding.

Length, area and volume units scale by different powers of a conversion factor. Convert consistently before substituting into formulas. An exact answer may contain a radical or pi; a rounded decimal is an approximation. Significant figures describe meaningful digits rather than decimal positions, so small and large numbers require different rounding decisions.

Try the mathematics

Task 1. Convert 1.8 m^2 to cm^2, 2400 cm^3 to litres, and 0.000728 m to scientific notation. Round the last measurement to two significant figures.

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-o1-aos4-kk-08/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Unit 2; Outcome 1; Key knowledge; Space, measurement and applications of trigonometry; bullet 8; p. 39.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u2-o1-aos4-kk-08. This is an internal identifier, not an official VCAA code.

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