Understand set symbols and operations

Key knowledge | Free preview

Learning target: Understand set symbols and operations.

A set statement concerns membership, not the order in which entries are written. Intersection requires membership in both sets; union requires membership in at least one. A complement depends on a stated universal set. A power set contains every subset, including the empty set and the original set.

Try the mathematics

Task 1. Let $U=\{1,2,3,4,5,6\}$, $A=\{1,2,4\}$ and $B=\{2,3,4,6\}$. Find $A\cap B$, $A\cup B$, $U\setminus A$, and $A\setminus B$. Decide whether $A\subseteq B$ and justify.

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/sm-u1-o1-kk-02/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). Specialist Mathematics; Unit 1; Outcome 1; Key knowledge; bullet 2; p. 61.

The learning target is a concise paraphrase. Aspire reference: sm-u1-o1-kk-02. This is an internal identifier, not an official VCAA code.

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