Understand how algorithms and pseudocode help explore and explain mathematical results

Key knowledge | Free preview

Learning target: Understand how algorithms and pseudocode help explore and explain mathematical results.

An illustrative club begins with 100 active members. A model retains 80% each week and adds 60 new members after retention. Treat outputs as expected counts. The supplied observations are invented for this activity, allowing a transparent comparison between mathematical predictions, assumptions and reported conclusions.

Try the mathematics

Task 1. Design pseudocode to find the first week with expected membership at least 200. State a stopping safeguard and trace the actual output for this model.

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-o2-kk-05/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). Specialist Mathematics; Unit 1; Outcome 2; Key knowledge; bullet 5; p. 62.

The learning target is a concise paraphrase. Aspire reference: sm-u1-o2-kk-05. This is an internal identifier, not an official VCAA code.

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