Communicate results mathematically and in everyday language, interpreting their contextual meaning

Key skills | Free preview

Learning target: Communicate results mathematically and in everyday language, interpreting their contextual meaning.

An illustrative population is modelled by $P' = 0.2P(1-P/1000)$, with $P(0)=100$ and time measured in weeks. The population observations supplied here are invented for mathematical practice. Compare model behaviour, numerical approximations and contextual conclusions while keeping the model's assumptions separate from the example data.

Try the mathematics

Task 1. Find when the model first reaches population 500 and write a contextual conclusion with a limitation. Distinguish continuous time from an observation made only at whole weeks.

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-u34-o2-ks-07/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). Specialist Mathematics; Units 3–4; Outcome 2; Key skills; bullet 7; p. 116.

The learning target is a concise paraphrase. Aspire reference: sm-u34-o2-ks-07. This is an internal identifier, not an official VCAA code.

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