# Analyse a specific situation with a model and make reasoned predictions.

## Key skills | Free preview

Learning target: Analyse a specific situation with a model and make reasoned predictions.

An investigation begins by defining the decision, variables and assumptions before selecting a model. Calculate several cases and locate any threshold where the preferred option changes. A recommendation should connect the mathematics to the quantity the user actually expects, and should distinguish known prices from assumptions about future use, fees and the validity of the pricing rule.

## Try the mathematics

Task 1. A club compares two invented printing plans. A costs $25 plus $3 per bundle; B costs $10 plus $5 per bundle. Let x be a non-negative integer. Form models, tabulate costs for x=2,4,6,8,10 and find the break-even input.

## 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-o2-cross-ks-03/

## Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Unit 1; Outcome 2; Key skills; bullet 3; p. 33.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u1-o2-cross-ks-03. This is an internal identifier, not an official VCAA code.

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