Understand the equation of a by-eye line of good fit.

Key knowledge | Free preview

Learning target: Understand the equation of a by-eye line of good fit.

A fitted gradient describes the predicted change in the response for a one-unit change in the explanatory variable. The intercept is the prediction when the explanatory variable is zero, which may lie outside the observed range. Predictions within the range interpolate; extending the rule beyond it adds an assumption that the same relationship continues.

Try the mathematics

Task 1. For trees aged 4–12 years, a by-eye model is height=2+0.7×age, in metres. Interpret its gradient and intercept and predict height at age 8.

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-aos1-kk-04/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Unit 2; Outcome 1; Key knowledge; Investigating relationships between two numerical variables; bullet 4; p. 38.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u2-o1-aos1-kk-04. This is an internal identifier, not an official VCAA code.

Free preview: share intact with attribution, without charging. Full resource rights are not included.

Original independent practice. Not published or endorsed by VCAA. The activity is not an official SAC, examination or complete treatment of every clause of a broad curriculum requirement.