

Parabolas

CLI Products

visit: www.cli.nsw.edu.au > products



Parabolas is designed to help students understand the relationship between the equation of parabolas and their graphical representation.

Parabolas is a valuable resource that builds mathematical skills and conceptual understanding through the use of online tools, imagery and content. It can be used as enrichment, extension or remediation activities in class or as homework and it is ideal as a support for whole class discussions.

Interactivity and problem-solving are central to the *Parabolas* online resource, which addresses the coordinate geometry sub-strand of Stage 5 mathematics. Students make use of graphics calculators and online graphic tools to learn key skills and ideas about parabolas. The resource offers:

- a wide variety of student activities supported with authoritative feedback
- textual content that can be downloaded and printed
- visual representations of parabolas that help students understand how parabolas occur in real-world contexts
- cartoons and fun activities that capture students' interest.

In the resource's six modules, students learn to change the values of the variables a , b and c in the equation of the parabola $y = ax^2 + bx + c$ and describe the effects on its shape.

To access *Parabolas* search the Teaching and Learning exchange (TaLe) <http://www.tale.edu.au> (NSW DET access only).

"This resource provides wonderful opportunities for students to investigate parabolic patterns and relationships in a fun and interactive environment!"

– Student teacher,
on placement at NSW DET school



Students explore mathematical ideas involving parabolas through interactive tasks, supported with rich feedback and humorous illustrations.

Enquiries

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