Attn: Mathematics Coordinators and Teachers

thinking maths? think maths 300!

maths 300
Supporting excellence in mathematics teaching

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Support site: www.maths300.esa.edu.au

maths300 is a collection of rich, innovative lessons sourced from around the country and indeed, around the world. The ever-evolving library of lessons, supported by worksheets and software aids, build on algorithmic skills and encourage students to apply reasoning and communication skills. The problem-solving strategies are creative, kinesthetic and collaborative, and often take students out of the classroom and into the real world through story shells and problems. Extension sections provide scope for extending investigations and cross-curricular activities.

A unique feature of maths300 is the software. More than 70 lessons are supported by custom software that adds a level of dynamics not otherwise possible. Data can be regionalised and saved; extrapolations, calculations, predictions and trials can be generated on a much larger scale. Also, maths300 is the only mathematics resource that provides teachers the opportunity to learn from colleagues across the globe, offer suggestions to enhance the performance of the lessons and contribute to the pursuit of excellence in mathematical teaching worldwide.

Key features:

• each lesson has both a one page summary and step-by-step instructions, including suggested classroom dialogue to provoke further analysis and insight
• multimodal teaching and learning, with open-ended lessons that can be adapted to suit diverse learning abilities and needs
• optional activities and student extensions
• lesson library searchable by pedagogical feature, curriculum strand, content or year level
• accompanying software providing an extra platform for learning.

With such celebrated lessons such as Temp Graphs, Multo, Fraction Estimation, Four Cube House (Architect’s puzzle), Crazy Animals, Dice Footy and Hunting for Stars, maths300 offers superb value with lessons so flexible that the same lesson can be taught in 30 minutes or 30 days, in Year 1 or Year 11!

Visit www.maths300.esa.edu.au

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This series requires students to investigate questions with the emphasis on mathematical reasoning, judgement and problem-solving skills.

Each of the ten units follows five phases of inquiry:

Discover (engage with the problem)
Devise (create a plan)
Defend (justify and communicate solutions and the decisions made)
Diverge (optional: explore alternative pathways)
Develop (integrate lessons and make connections)

Notes for the teacher make the process of mathematical inquiry transparent. ‘In action’ sections share the authors’ experience trialling these inquiries and how they encourage mathematical understanding in their own students.

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This series encourages the use of creative, problem-solving strategies to explore and demonstrate mathematical understanding using an inquiry-based approach.

Each lesson contains five activities and each activity contains:
- a brief description of the purpose of the task; a list of required materials; step-by-step instructions for teaching (including whole class, independent and reflection tasks); a concluding statement of the skills and knowledge covered in the lesson;
- tips for preparing for the next lesson; student work samples; assessment pointers and teaching tips.

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