

# Problem-Solving and Reasoning in Mathematics

New Course

- 📍 Incorporate the findings of the Donaldson Report in the 2018 Welsh mathematics curriculum
- 📍 Embed the latest research in mathematics:
  - Dweck's Mindsets
  - Hattie's Visible Learning
  - The Donaldson Welsh Curriculum Report
- 📍 New practical tools to raise attainment in 2018

## Zebedee Friedman



Zeb has over 20 years' experience in education and has held various teaching and management roles across mathematics. Her work is influenced by Professors Carol Dweck and Jo Boaler. She has hundreds of practical ways to promote a growth mindset in students.

## How to apply Donaldson's vision for the mathematics curriculum

Application Learning in Maths

Development of wider skills:

- critical thinking
- problem-solving
- planning
- organisation
- creativity
- innovation

New demands for maths for employability and life

## Analyse and apply the latest research

Carol Dweck: 'Mindsets and Math/Science Achievement'

Jo Boaler: inquiry-based mathematics

The Sutton Trust and EEF Teaching and Learning Toolkit

## Concrete strategies for improvement

- Self-assessment templates
- Techniques to improve analysis and presentation of numerical data
- Methodology to move away from memorisation
- Take students out of their comfort zones

## Taking Mathematics out of the classroom

Dispel the 'not a maths person' myth

Apply Maths and reasoning skills to other contexts

Explore quantities, space and data and apply them to real-life situations

Effective feedback to deepen reasoning

The skills to interpret information, solve problems and make decisions

*"Fantastic – knowledgeable and inspiring!"*

Elizabeth Pepper, Marple Hall School

To run this course in your school, call 01790 755783



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