

# Secondary Mathematics

- How to develop growth mindsets in the context of new KS3/4 programmes of study:
  - fluency –reasoning –problem solving
- How to embed the latest research in mathematics:
  - Dweck's Mindsets –Hattie's Visible Learning
  - Mastery curriculum –Boaler's Inquiry-based Learning
- New practical tools to raise attainment in 2017

## Zebedee Friedman

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

### The latest research

- Carol Dweck's 2008 paper: 'Mindsets and Math/Science Achievement'
- Jo Boaler: inquiry-based mathematics
- The Sutton Trust and EEF Teaching and Learning Toolkit

### Dispel the 'not a maths person' myth

- Ensure language and feedback feed the growth mindset
- Power discussions about mathematical learning
- Prove that mistakes fuel learning
- Assess with the right messages about ability
- Utilise mindsets as an antidote to high-stakes testing
- Increase the uptake of girls in STEM subjects

### Concrete strategies for improvement

- Parental involvement tips
- Self-assessment templates
- Multiple methods engagement tips
- Ways to move away from memorisation
- Ways to introduce brain plasticity
- Tips to take students out of their comfort zones

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