



Motivational Maths

Chris Gorse
Ian Dickinson
Paul Whitehead

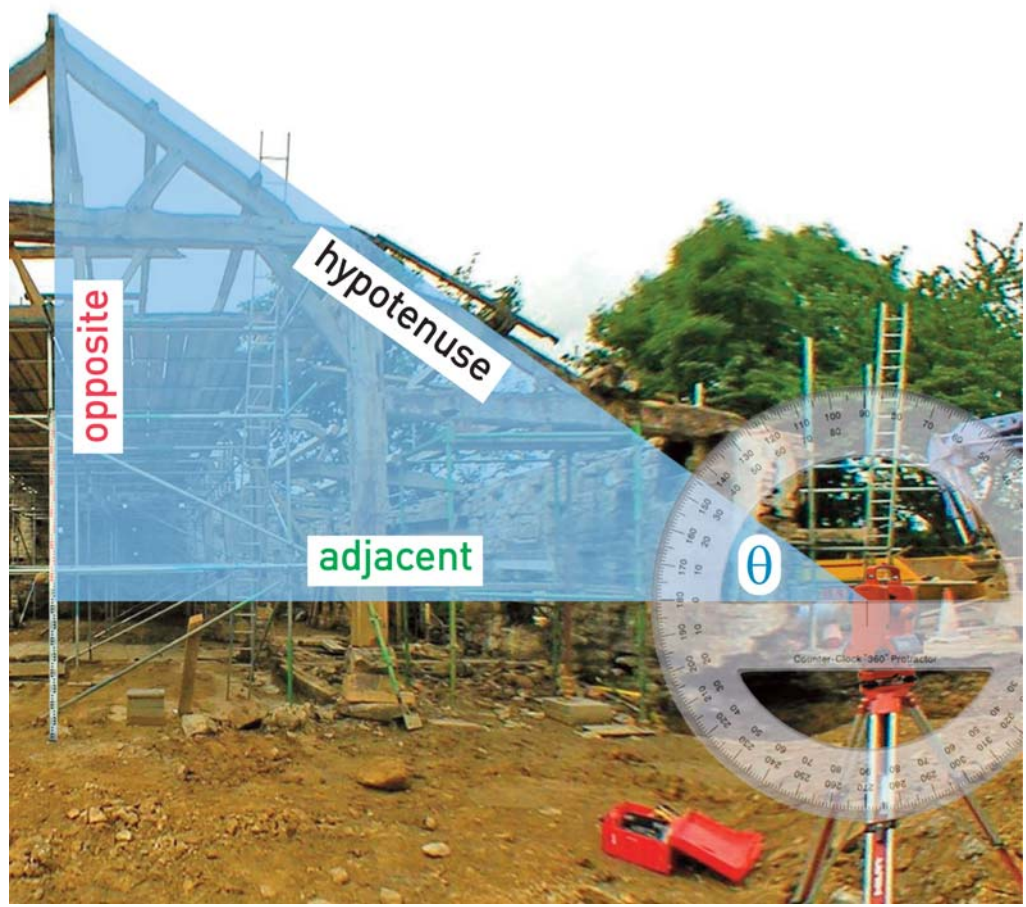
www.leedsmet.ac.uk/teaching/vsite

Aims

- Make maths interesting and meaningful
- Promote maths as an attractive, interesting, and relevant subject
- Make maths understandable
- The resources will:
 - be open access
 - be visual
 - demonstrate real applications in construction

By linking maths with working technology a more stimulating learning environment can be created

Step-by-step



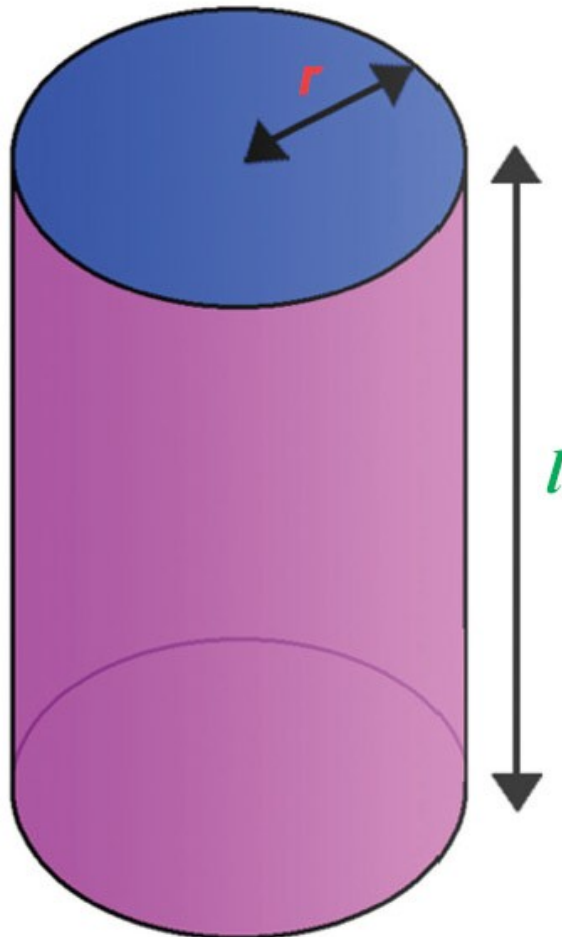
Video & audio



Contextualised images



Animation & graphical guidance



Volume of a cylinder =

$$\pi r^2 l$$

$$r = 0.3\text{m} \quad l = 8\text{m}$$

∴ Volume =

$$3.14 \times 0.09\text{m}^2 \times 8\text{m}$$

$$= 2.26\text{m}^3$$



Resources to be created

- Interactive 360° environments supported by video and audio explanation
 - Worksheets to support each interactive environment – (self study and group tasks)
 - Formulae posters and support aids for each topic
 - Games or roll play exercises
 - Teacher notes
- Please give us any feedback



Diploma & future

- Embed e-learning tools effectively into college curriculum
- Provide reusable learning objects that can be adapted, changed and updated
- All resources will be open access on the web



Contacts

Ian Dickinson: i.dickinson@leedsmet.ac.uk

Paul Whitehead: p.whitehead@leedsmet.ac.uk

Chris Gorse: c.gorse@leedsmet.ac.uk

www.leedsmet.ac.uk/teaching/vsite