# YEAR 10 - SIMILARITY...

@whisto maths

# Trigonometry



## YEAR 10 — SIMILARITY... <sup>@whisto\_maths</sup> Congruence, similarity & enlargement

#### What do I need to be able to do?

### By the end of this unit you should be able

- to:
- Enlarge by a positive scale factor
- Enlarge by a fractional scale factor
- Identify similar shapes
- Work out missing sides and angles in similar shapes
- Use parallel lines to find missing angles
- Understand similarity and congruence

### <u>Keywords</u>

- Enlarge: to make a shape bigger (or smaller) by a given multiplier (scale factor)
- Scale Factor: the multiplier of enlargement
- Centre of enlargement: the point the shape is enlarged from
- **Similar**: when one shape can become another with a reflection, rotation, enlargement or translation. **Congruent**: the same size and shape

Corresponding: items that appear in the same place in two similar situations **Parallel**: straight lines that never meet (equal gradients)

