

# Enlargement and Similarity

## Small Steps

- ▶ Recognise enlargement and similarity
- ▶ Enlarge a shape by a positive integer scale factor
- ▶ Enlarge a shape by a positive integer scale factor from a point
- ▶ Enlarge a shape by a positive fractional scale factor
- ▶ **Enlarge a shape by a negative scale factor** H
- ▶ Work out missing sides and angles in a pair of given similar shapes
- ▶ **Solve problems with similar triangles** H
- ▶ **Explore ratios in right-angled triangles** H

H denotes higher strand and not necessarily content for Higher Tier GCSE

R denotes 'review step' – content should have been covered earlier in KS3

# Ratio and Proportion

## Small Steps

- ▶ Solve problems with direct proportion R
- ▶ Direct proportion and conversion graphs R
- ▶ Solve problems with inverse proportion
- ▶ **Graphs of inverse relationships** H
- ▶ Solve ratio problems given the whole or a part R
- ▶ Solve 'best buy' problems
- ▶ **Solve problems ratio and algebra** H

H denotes Higher Tier GCSE content

R denotes 'review step' – content should have been covered earlier in KS3

# Rates

## Small Steps

- ▶ Solve speed, distance and time problems without a calculator
- ▶ Solve speed, distance and time problems with a calculator
- ▶ Use distance-time graphs
- ▶ Solve problems with density, mass and volume
- ▶ Solve flow problems and their graphs
- ▶ Rates of change and their units
- ▶ **Convert compound units** H

**H** denotes Higher Tier GCSE content

**R** denotes 'review step' – content should have been covered at KS3