

# Numbers

## Small Steps

Integers, real and rational numbers

Understand and use surds

H

Work with directed number

R

Solve problems with integers

Solve problems with decimals

HCF and LCM

R

Adding and subtracting fractions

R

Multiplying and dividing fractions

R

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

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

# Numbers

## Small Steps

- ▶ Solve problems with fractions
- ▶ Numbers in standard form

R

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# Using percentages

## Small Steps

- ▶ Use the equivalence of fractions, decimals and percentages R
- ▶ Calculate percentage increase and decrease R
- ▶ Express a change as a percentage R
- ▶ Solve 'reverse' percentage problems
- ▶ Recognise and solve percentage problems (non-calculator)
- ▶ Recognise and solve percentage problems (calculator) R
- ▶ **Solve problems with repeated percentage change** H

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# Maths and Money

## Small Steps

- ▶ Solve problems with bills and bank statements
- ▶ Calculate simple interest
- ▶ Calculate compound interest
- ▶ Solve problems with Value Added Tax
- ▶ Calculate wages and taxes
- ▶ Solve problems with exchange rates
- ▶ Solve unit pricing problems

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