

Key indicators for level 5 in Year 8

The following objectives are central to pupils' progress in moving from level 4 to 5 in Year 8

Using and applying mathematics to solve problems

- Identify the necessary information to solve a problem; represent problems and interpret solutions in algebraic, geometrical or graphical form.

Numbers and the number system

- Add, subtract, multiply and divide integers.

Calculations

- Use standard column procedures for multiplication and division of integers and decimals, including by decimals such as 0.6 and 0.06; understand where to position the point by considering equivalent calculations.

Algebra

- Simplify or transform linear expressions by collecting like terms; multiply a single term over a bracket.
- Substitute integers into simple formulae.

Shape, space and measures

- Transform 2-D shapes by simple combinations of rotations, reflections and translations, on paper and using ICT; identify all the symmetries of 2-D shapes.
- Use units of measurement to estimate, calculate and solve problems in everyday contexts involving length, area, volume, capacity, mass, time, angle and bearings; know rough metric equivalents of imperial measures in daily use (feet, miles, pounds, pints, gallons).

Handling data

- Estimate probabilities from experimental data; understand that:
 - if an experiment is repeated there may be, and usually will be, different outcomes;
 - increasing the number of times an experiment is repeated generally leads to better estimates of probability.