

# Level 8 means that I can...

- Solve problems involving powers and roots
- Understand and solve problems with standard form
- Solve problems involving repeated proportional change
- Substitute fractions and decimals into equations and expressions and find the answers
- Calculate one variable in a formula when I know the others
- Understand that  $a^2 - b^2 = (a + b)(a - b)$
- Solve inequalities in two variables
- Sketch and interpret graphs of quadratic, cubic and reciprocal functions
- Interpret graphs that model real life situations
  
- Use congruence and mathematical similarity
- Use sine, cosine and tangent in right angled triangles in 2D
- Distinguish between formulae for perimeter, area and volume by considering dimensions
  
- Interpret and construct cumulative frequency diagrams
- Estimate the median and interquartile range with and without a cumulative frequency diagram
- Calculate the probability of a combined events and use this to solve problems

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