

Level 6 means that I can...

- Use trial and improvement to solve things like $x^3+5x=38$
- Work out one number as a fraction or percentage of another
- Understand that fractions, decimals and percentages can be equivalent to each other (eg $0.5=50\%=\frac{1}{2}$)
- Calculate using ratio
- Add and subtract fractions by using common denominators
- Find and describe in words the rule for the next term in a sequence (linear)
- Find and describe in words the rule for the n^{th} term in a sequence
- Form and solve linear equations with integer coefficients
- Plot the graph of $y = mx + c$

- Recognise 2D representations of 3D objects
- Classify quadrilaterals by knowing their properties
- Find the missing angles when two parallel lines are intersected – use alternate, corresponding and vertically opposite angles
- Use angles & symmetry in polygons to find missing angles
- Write instructions to make a computer draw a shape (logo)
- Find the area and circumference of a circle using π
- Find the area of triangle, trapezium and parallelogram
- Find the volume of cuboids
- Enlarge a shape by a positive scale factor

- Collect and record continuous data
- Construct pie charts
- Use a scatter diagram and understand correlation
- Find all the possible outcomes of two experiments
- Use the fact that the probability of mutually exclusive events add up to 1
- Create frequency tables, draw and use frequency diagrams

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