

Measurement Skills

Solve problems in time management

- Plan tasks involving simultaneous and sequential events

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Calculate a quantity based on a related measurement

- Solve problems involving direct proportion
- Solve problems involving inverse proportion
- Solve problems involving joint proportion

Construct a scale drawing with a given scale

- Enlarge or reduce a shape given the scale factor
- Construct a scale drawing where the scale is given as a ratio
- Choose a suitable scale for a scale drawing
- Draw / interpret a navigation course using 3 figure bearings

Carry out container packing using a first-fit algorithm

- Minimise the amount of containers used by considering orientation of boxes

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Understand tolerance in a measurement

- Given the tolerance, calculate the limits

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Geometry Skills

Find the gradient of a slope and equation of a line

- Know how to calculate gradient of a slope or a line
- Understand zero, positive, negative and undefined gradients
- Use gradient and y intercept to find the equation of a line
- Use the equation of a line to find gradient and y intercept
- Compare situations using linear modelling

Find Perimeter, Area and Volume and use it in calculations

- Calculate the perimeter of shapes including circumference
- Calculate the area of quadrilaterals and circles
- Calculate the volume of prisms and cylinders
- Solve problems involving a composite solid which includes part of a circle
- Solve problems involving the volume of a composite solid

Solve a problem using Pythagoras' theorem

- Use Pythagoras' theorem to calculate a side in a RAT
- Use Pythagoras' theorem repeatedly to solve a problem in 2D
- Use Pythagoras' theorem to solve a problem in 3D
