

Year 7 Maths

Topic 6 Solving Equations



Students are learning about Solving Equations at this point in Year 7 because they have been introduced to Algebra; it is now time to focus on its most transferable key skill, which is Solving Equations. Most of the time, Maths is used to 'work things out'. The thing that's being worked out is usually the solution to an equation of some sort!

Previous topic: Fractions

Next topic: Angles and Polygons

Next Algebra Topic: Sequences

Core knowledge/skills/concepts

- Solve Simple equations using function machines
- Solve Simple equations without function machines
- Algebraic substitution into formulae and expressions

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Essential vocabulary

equation
expression
formula
formulae
identity
power
simplify
solve
subject of the formula
term
unknown
variable

Threshold concepts

- Solve Simple equations without function machines

Opportunities for reading

Worded questions

How and when will the core learning be assessed?

Mid-topic Assessment, End of topic Assessment, Assessment 3 (May)

Links to other topics/subjects

Solving Equations is used in Sequences (topic 10)

Students will solve ever more complicated equations as they move through the school. In Year 8, these will be equations with the unknown on both sides. In Year 9, these will be trigonometric equations. Students who progress to A-Level will solve exponential and differential equations.

Year 8 Algebra topics include: Algebraic Manipulation; Equations and Inequalities and Graphs