Term by Term Objectives

Year 8

Year 8 Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Revise & improve			Number – Fractions 2			Number – Percentages					Revise & Improve
Spring	Algebra 2							Geometry – Circles & Area				Revise & Improve
Summer	Ratio, proportion & rates of change						Statistics		Geometry – 3D shapes			Revise & Improve

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Term by Term Objectives

Year 8

Year Group	Y8	Term	Autumn

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
<u>Revise and improve</u> • Four operations • Order of operations • Negative numbers • Fractions • Algebra			<u>Number- Fractions 2</u> Multiply and divide proper and improper fractions and mixed numbers both positive and negative. • Fraction x Integer • Fraction x Fraction • Fraction ÷ Integer • Integer ÷ Fraction • Fraction ÷ Fraction • All of the above proper, improper, mixed, positive and negative. Find a fraction of an amount. Find the whole amount, given a fraction of the amount. Find a fractional increase and decrease.			<u>Number – Percentages</u> Define percentage as ‘number of parts per hundred’, interpret percentages and percentage changes as a fraction or a decimal, interpret these multiplicatively, express one quantity as a percentage of another, compare two quantities using percentages, and work with percentages greater than 100% This should include: • Define percentage as ‘number of parts per hundred’ • Interpret diagrams as percentages and vice versa • Interpret percentages as a fraction or as a decimal • Express one quantity as a percentage of another • Compare two quantities using percentages, and work with percentages greater than 100% E.g Claire got 16 out of 20 on a test, Simon got 21 out of 25 on a test. Who got the better score? • Interpret fractions and percentages as operators, with and without a calculator. Solve problems involving percentage change, including: • Percentage increase, decrease and original value problems and simple interest in financial mathematics.				Time at the beginning or end of the term for consolidation gap filling, seasonal activities, assessments, etc.

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Subject: Mathematics Edexcel **Year: 9**			Recommended revision guides support and study materials.
Term 1 **Foundation Topics covered:** • Integers and place value • Decimals • Indices, powers and roots • Factors, multiples and primes • Algebra: the basics • Expanding and factorising single brackets • Expressions and substitution into formulae **Higher Topics covered:** • Calculations, checking and rounding • Indices, roots, reciprocals and hierarchy of operations • Factors, multiples and primes • Standard form and surds • Algebra: the basics • Setting up, rearranging and solving equations • Sequences	Term 2 **Foundation Topics covered:** • Tables • Charts and graphs • Pie charts • Scatter graphs • Fractions • Fractions, decimals and percentages • Percentages **Higher Topics covered:** • Averages and range • Representing and interpreting data • Scatter graphs • Fractions • Percentages • Ratio and proportion	Term 3 **Foundation Topics covered:** • Equations • Inequalities • Sequences • Properties of shapes, parallel lines and angle facts • Interior and exterior angles of polygons **Higher Topics covered:** • Polygons, angles and parallel lines • Pythagoras' Theorem and trigonometry • Graphs: the basics and real-life graphs • Linear graphs and coordinate geometry • Quadratic, cubic and other graphs	• BBC GCSE Bitesize • Method Maths (www.methodmaths.com) • Mymaths (www.mymaths.co.uk) • Hegarty Maths – www.hegartymaths.co.uk • Revision guides will be provided in year 10 & 11 but we follow the Edexcel scheme of work if you wish to purchase these guides earlier. • CGP Website is also good to purchase revision materials. https://www.cgpbooks.co.uk/Parent/books_gcse_maths
Homework: Students will be set one piece of Hegarty Maths homework per week (up to 30 minutes) including revision homework (up to 1 hour) prior to the half term assessment. After each assessment students will be asked to act upon their feedback and complete personalised set tasks on Mymaths (www.mymaths.co.uk) or Hegarty maths	Homework: Students will be set one piece of homework per week (up to 30 minutes) including revision homework (up to 1 hour) prior to the half term assessment. After each assessment students will be asked to act upon their feedback and complete personalised set tasks on Mymaths (www.mymaths.co.uk) or Hegarty maths	Homework: Students will be set one piece of homework per week (up to 30 minutes) including revision homework (up to 1 hour) prior to the half term assessment. After each assessment students will be asked to act upon their feedback and complete personalised set tasks on Mymaths (www.mymaths.co.uk) or Hegarty maths	