Year 9

Higher
Autumn 1

	a	Calculations, checking and rounding
<u>1</u>	<u>b</u>	Indices, roots, reciprocals and hierarchy of operations
	<u>c</u>	Factors, multiples and primes
	<u>d</u>	Standard form and surds
	<u>a</u>	Algebra: the basics
<u>2</u>	<u>b</u>	Setting up, rearranging and solving equations
	<u>c</u>	Sequences

Autumn 2

	<u>a</u>	Averages and range
<u>3</u>	<u>b</u>	Representing and interpreting data
	<u>c</u>	Scatter graphs
	<u>a</u>	Fractions
<u>4</u>	<u>b</u>	Percentages
	<u>c</u>	Ratio and proportion

Spring 1

	<u>a</u>	Polygons, angles and parallel lines
<u>5</u>	<u>b</u>	Pythagoras' Theorem and trigonometry
	<u>a</u>	Graphs: the basics and real-life graphs
<u>6</u>	<u>b</u>	Linear graphs and coordinate geometry
	<u>c</u>	Quadratic, cubic and other graphs

Spring 2

	<u>a</u>	Perimeter, area and circles
<u>7</u>	<u>b</u>	3D forms and volume, cylinders, cones and spheres
	<u>c</u>	Accuracy and bounds
<u>8</u>	<u>a</u>	Transformations
	<u>b</u>	Constructions, loci and bearings

Summer 1

	<u>a</u>	Solving quadratic and simultaneous equations
<u>9</u>	<u>b</u>	Inequalities

Summer 2

Chapter 10 Probability and Revision and Examinations

Year 9

Foundation
Autumn 1

1	a	Integers and place value
	b	Decimals
	c	Indices, powers and roots
	d	Factors, multiples and primes
2	a	Algebra: the basics
	b	Expanding and factorising single brackets
	c	Expressions and substitution into formulae

Autumn 2

3	a	Tables
	b	Charts and graphs
	c	Pie charts
	d	Scatter graphs
4	a	Fractions
	b	Fractions, decimals and percentages
	c	Percentages

Spring 1

5	a	Equations
	b	Inequalities
	c	Sequences
6	a	Properties of shapes, parallel lines and angle facts
	b	Interior and exterior angles of polygons

Spring 2

7	a	Statistics and sampling
	b	The averages
8	a	Perimeter and area
	b	3D forms and volume

Summer 1

9	a	Real-life graphs
		Straight-line graphs

Summer 2

10	a	Transformations I: translations, rotations and reflections
	b	Transformations II: enlargements and combinations

Revision and Examinations

Year 10

Higher

Autumn 1

11	**Multiplicative reasoning**
12	Similarity and congruence in 2D and 3D

Autumn 2

13	a	Graphs of trigonometric functions
	b	Further trigonometry
14	a	Collecting data
	b	Cumulative frequency, box plots and histograms

Spring 1

15		Quadratics, expanding more than two brackets, sketching graphs, graphs of circles, cubes and quadratics
16	a	Circle theorems
	b	Circle geometry

Spring 2

17	Changing the subject of formulae (more complex), algebraic fractions, solving equations arising from algebraic fractions, rationalising surds, proof

Summer 1

18	Vectors and geometric proof

Summer 2

19	a	Reciprocal and exponential graphs; Gradient and area under graphs
	b	Direct and inverse proportion

Revision and Examinations

Foundation
Autumn 1

11	a	Ratio
	b	Proportion
12		Right-angled triangles: Pythagoras and trigonometry

Autumn 2

13	a	Probability I
	b	Probability II
14		Multiplicative reasoning

Spring 1

15	a	Plans and elevations
	b	Constructions, loci and bearings
16	a	Quadratic equations: expanding and factorising
	b	Quadratic equations: graphs

Spring 2

17		Circles, cylinders, cones and spheres
18	a	Fractions and reciprocals
	b	Indices and standard form

Summer 1

19	a	Similarity and congruence in 2D
	b	Vectors

Summer 2 Revision and Examinations

20		Rearranging equations, graphs of cubic and reciprocal functions and simultaneous equations

Exam board:
EDEXCEL

Assessment structure:
Three examinations to take place at the end of the year 11

Foundation Tier – grades 1-5
Higher Tier grades 4-9

At both tiers there will be three papers each 1hr 30 mins in duration (Only one paper is non calculator)

Subject specific websites to support revision and independent learning:
MyMaths
Mathswatch
Edexcel Website (past papers and mark schemes)
YouTube (tutorials, video solutions to past exam questions)