



**Swanshurst
School**

Maths Curriculum Intent

Our aim is to support all pupils to become confident, numerate individuals. Pupils will be exposed to mathematics which challenges them in an atmosphere that is positive, respectful and supports all pupils, taking into account their specific learning needs.

A broad, balanced and exciting curriculum gives all pupils the opportunity to work collaboratively, independently, and in a reflective manner with an emphasis on clear and confident communication. Problem solving and reasoning is integral to all topics, allowing pupils to think mathematically and apply their knowledge in a range of contexts.

Pupils are encouraged to recognise the value of mathematics beyond the maths classroom and its importance for everyday life.



Year 7 Scheme of Work & Assessment Map

	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	Algebraic Thinking						Place Value & Proportion					
	Sequences		Understand & use algebraic notation		Equality & equivalence		Place value & ordering integers & decimals			Fraction, decimal & percentage equivalence		
Spring	Applications of Number						Directed Number			Fractional Thinking		
	Solving problems with adding & subtracting		Solving problems with multiplication & division			Fractions & percentages of amounts	Operations & equations with directed number			Addition & subtraction of fractions		
Summer	Lines & Angles						Reasoning & Number					
	Constructing, measuring & using geometric notation			Developing geometric reasoning			Developing number sense		Sets & probability		Prime numbers & proof	

Autumn Term

- F1:** Sequences 1
- F2:** Algebra 1
- F3:** Place Value
- S1:** Term 1 (FDP focus)

Spring Term

- F4:** Addition & Subtraction
- F5:** Multiplication & Division
- F6:** Fractions & Percentages of Amounts
- S2:** Directed Number & Addition & Subtraction Fractions

Summer Term

- F7:** Geometry
- F8:** Sets & Probability
- F9:** Prime & Proof
- S3:** End of Year Exam



Year 8 Scheme of Work & Assessment Map

	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	Line & Angles				Direct			Fractional Thinking		Reasoning with Number		
	Constructing, measuring & using geometric notation		Developing geometric reasoning		Operations & equations with directed number		Addition & subtraction of fractions		Sets & probability		Prime numbers & proof	
Spring	Proportional Reasoning						Representations					
	Ratio & scale		Multiplicative change		Multiplying & dividing fractions		Working in the Cartesian plane		Representing Data		Tablets & Probability	
Summer	Algebraic Techniques						Developing Number					
	Brackets, equations & inequalities			Sequences	Indices	Fractions & percentages		Standard index form		Number sense		

Autumn Term

- F1:** Geometry
- F2:** Directed Number
- F3:** Adding & Subtracting Fractions
- S1:** Primes & Sets

Spring Term

- F4:** Ratio/Multiplicative Change
- F5:** Multiplying & Dividing Fractions
- F6:** Working in the cartesian Plane
- S2:** Data & Probability

Summer Term

- F7:** Algebra 2
- F8:** Sequences 2
- F9:** Fractions & Percentages
- S3:** End of Year Exam



Year 9 Scheme of Work & Assessment Map

	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	Reasoning with Algebra						Constructing in 2 & 3 Dimensions					
	Straight Line Graphs		Forming & Solving Equations		Testing Conjectures		Three-dimensional Shapes			Constructions & Congruency		
Spring	Reasoning with Number						Reasoning with Geometry					
	Numbers		Using Percentages		Maths & Money		Deduction		Rotation & Translation		Pythagoras' Theorem	
Summer	Reasoning with Proportion						Representation & Revision					
	Enlargement & Similarity		Solving Ratio & Proportion Problems		Rates		Probability		Algebraic Representation	Revision		

Autumn Term

F1: Straight Line Graphs
F2: Forming & Solving Equations
F3: Testing Conjectures
F4: 3D Shapes
S1: Straight Line Graphs
S2: Reasoning with Algebra

Spring Term

F5: Construction & Congruency
F6: Numbers
F7: Using Percentages
F8: Maths & Money
S3: Constructing in 2D & 3D
S4: Reasoning with Number

Summer Term

F9: Deduction
F10: Rotation & Translation
F11: Solving Ratios & Proportion Problems
F12: Probability
S5: Reasoning with Geometry
S6: PPE



Year 10 Scheme of Work & Assessment Map

	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	Straight Line Graphs		Forming & Solving Equations		Three-dimensional Shapes			Solving Ratio & Proportion Problems		Pythagoras' Theorem		Trigonometry
Spring	Representing solutions of equations & inequalities			Simultaneous equations			Working with circles	Vectors		Rates & fractions		
Summer	Percentages & Interest		Probability		Collecting, representing & interpreting data					Non-calculator methods		

Autumn Term

- 1: Straight Line Graphs
- 1: Forming & Solving Equations
- 1: 3D Shapes
- 2: Ratio & Proportion
- 2: Pythagoras
- 2: Trigonometry

Spring Term

- 1: Equations & Inequalities
- 1: Simultaneous Equations
- 2: Circles
- 2: Vectors
- 2: Fractions & Ratio

Summer Term

- 1: Percentages
- 1: Probability
- 1: Handling Data Intro
- 2: Handling Data
- 2: Non calculator Methods



Year 11 Scheme of Work & Assessment Map

	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	Pythagoras' Theorem		Trigonometry - Vectors			Combined Events		Sequences		Units & Proportionality		
Spring	Calculations 2			Graphs 2		REVISION						
Summer	REVISION											

Autumn Term

F1: 19 Pythagoras & Trigonometry
F3: 20 Combined Events
F2: 21 Sequences
F4: 22 Units & Proportionality
S1 + S2: GCSE Exam Papers

Spring Term

F5: 17 Calculations 2
F6: 18 Graphs 2
F7: Revision
F8: Revision
S3 + S4: GCSE Exam Papers

Summer Term

F9: Revision
F10: Revision
F11: Revision
F12: Revision
S5 + S6: GCSE Exam Papers

KS5 Order of Units to be Taught (2021 to 2022)

Year	Half Term 1 Pure	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
12 Pure	<p>1: Algebra expressions</p> <p>2: Quadratic functions</p> <p>3: Equations & inequalities</p> <p>4: Graphs & transformations</p>	<p>12: Differentiation</p> <p>13: Integration</p>	<p>9: Trigonometric ratios</p> <p>11: Vectors</p>	<p>10: Trigonometric Identities</p> <p>7: Algebraic methods</p> <p>14: Exponential & logs</p>	<p>14: Exponential & logs</p> <p>Revision PPE</p>	<p>Resit PPE</p> <p>(year2)</p> <p>3: Algebraic methods</p> <p>8: Binomial expansion (year 12 + year 13)</p>
12 Applied	<p>5: Straight line graphs</p> <p>6: Circles</p>	<p>1: Data collection</p> <p>2: Calculation & interpretation of measures</p> <p>3: Representation of data</p> <p>4: Correlation</p>	<p>5: probability</p> <p>6: Statistical distribution</p> <p>7: Hypothesis testing</p>	<p>8: Modelling in mechanics</p> <p>9: constant acceleration</p>	<p>10: Forces & motion</p> <p>11: Variable acceleration</p> <p>Revision PPE</p>	<p>Resit PPE</p> <p>(year 2)</p> <p>1: Regression & correlation</p>

KS5 Order of Units to be Taught (2021 to 2022)

Year	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
13	<p>5: Radians</p> <p>1: Proof</p> <p>6: Trigonometric functions</p> <p>7: Trigonometric Modelling</p> <p>4: Binomial (done in yr 12 summer)</p>	<p>8: Parametric</p> <p>3: Sequences & series</p> <p>2: Functions</p>	<p>9: Differentiation</p> <p>10: Numerical Methods</p>	11: Integration	Revision	Exams
13 Applied	<p>1: Regression & correlation</p> <p>2: Conditional Probability</p> <p>3: Normal distribution</p> <p>4: Moments</p>	<p>5: Forces & friction</p> <p>6: Projectiles</p> <p>7: Application of forces</p>	<p>8: Further Kinematics</p> <p>(Pure teacher)</p> <p>12: Vectors</p>	Revision	Revision	Exams