

OPA Curriculum Explained – Year 7 Mathematics

What will my child be learning in Spring Term 1 – 2024

(Thursday 4th January 2024 to Friday 16th February 2024)

Year 7 Mathematics Spring Term Curriculum Focus

Year 7 curriculum map

	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12
	2-D Geometry						The Cartesian plane					
Spring	Angles Y7U7	Classifying 2-D shapes Y7U8		Constructing triangles and quadrilaterals Y7U9		Coordinates Y7U10		Area of 2-D shapes Y7U11		Transforming 2-D figures Y7U12		

Year 7 Mathematics Spring Term Assessment Focus with Date

(Including resources to help students prepare for the assessment)

Week	Week commencing	Nature of assessment	Area of concentration
2	15 January 2024	End of Unit Test	Angles
4	29 January 2024	End of Unit Test	Classifying 2-D shapes
6	12 February 2024	End of Unit Test	Constructing triangles and quadrilaterals
8	04 March 2023	End of Unit Test	Coordinates
10	18 March 2023	End of Unit Test	Area of 2-D shapes
11	25 March 2023	End of Term Assessment	Non-calculator test. This assessment consists of two sections covering the key learning of the Spring term units: <ul style="list-style-type: none"> Section A: Multiple choice (30 mins) Section B: Free response (15 mins)

Year 7 Spring Term Mathematics Homework Focus

Week	Home learning Focus
1 & 2	Angles
3 & 4	Classifying 2-D shapes
5 & 6	Constructing triangles and quadrilaterals
7 & 8	Coordinates
9 & 10	Area of 2-D shapes
11 & 12	Transforming 2-D figures

OPA Curriculum Explained – Year 8 Mathematics

What will my child be learning in Spring Term 1 – 2024

(Thursday 4th January 2024 to Friday 16th February 2024)

Year 8 Mathematics Spring Term Curriculum Focus

Year 8 curriculum map

	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12
Spring	Proportional reasoning						Representations and reasoning with data					
	Ratio review Y8U6	Real life graphs Y8U7		Direct and inverse proportion Y8U8		Univariate data Y8U9		Bivariate data Y8U10				

Year 8 Mathematics Spring Term Assessment Focus with Date

(Including resources to help students prepare for the assessment)

Week	Week commencing	Nature of assessment	Area of concentration
3	22 January 2024	End of Unit Test	Real life graphs
6	12 February 2024	End of Unit Test	Direct and inverse proportion
9	11 March 2023	End of Unit Test	Univariate data
11	25 March 2023	End of Term Assessment	Non-calculator test. This assessment consists of two sections covering the key learning of the Spring term units: <ul style="list-style-type: none"> Section A: Multiple choice (30 mins) Section B: Free response (15 mins)

Year 8 Spring Term Mathematics Homework Focus

Week	Home learning Focus
1, 2, 3	Real life graphs
4, 5, 6	Direct and Inverse proportion
7, 8, 9	Univariate data
10 & 11	Bivariate data

OPA Curriculum Explained – Year 9 Mathematics

What will my child be learning in Spring Term – 2024

(Thursday 4th January 2024 to Thursday 28 March 2024)

Year 9 Mathematics Spring Term Curriculum Focus

Year 9 curriculum map

	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12
Spring	Geometry of triangles						Ratio and proportion					
	Angle review Y9U6	Constructions, congruence and loci Y9U7		Pythagoras' Theorem Y9U8			Ratio review Y9U9	Similarity and enlargement Y9U10		Trigonometry Y9U11		

Year 9 Mathematics Spring Term Assessment Focus with Date

(Including resources to help students prepare for the assessment)

Week	Week commencing	Nature of assessment	Area of concentration
3	22 January 2024	End of Unit Test	Constructions, congruence and loci
6	12 February 2024	End of Unit Test	Pythagoras Theorem
7	19 February 2023	End of Unit Test	Ratio review
9	11 March 2023	End of Unit Test	Similarity and enlargement
11	25 March 2023	End of Term Assessment	Calculator test. This assessment consists of two sections covering the key learning of the Spring term units: <ul style="list-style-type: none"> Section A: Multiple choice (30 mins) Section B: Free response (15 mins)

Year 9 Spring Term Mathematics Homework Focus

Week	Home learning Focus
1	Angles
2 & 3	Constructions, congruence and loci
4 & 5	Pythagoras Theorem
7	Ratio
8 & 9	Similarity and enlargement
10 & 11	Trigonometry

OPA Curriculum Explained – Year 10 Mathematics

What will my child be learning in Spring Term – 2024

(Thursday 4th January 2024 to Thursday 28 March 2024)

Year 10 Mathematics Spring Term Curriculum Focus

YEAR 10 FOUNDATION

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Spring	Equations and inequalities	Equations and inequalities	Equations and inequalities	Sequences	2D shape and angle rules	2D shape and angle rules	Interior and exterior angles of polygons	Statistics, sampling and the averages	Statistics, sampling and the averages	Perimeter, area and volume	Perimeter, area and volume	Perimeter, area and volume

YEAR 10 HIGHER

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Spring	Polygons, angles and parallel lines	Pythagoras' Theorem and trigonometry	Pythagoras' Theorem and trigonometry	Coordinate geometry and linear graphs	Real-life graphs	Real-life graphs	Quadratic, cubic and other graphs	Quadratic, cubic and other graphs	Perimeter, area and circles	Perimeter, area and circles	Surface Area and Volume	Surface Area and Volume

Year 10 Mathematics Spring Term Assessment Focus with Date

(Including resources to help students prepare for the assessment)

Week	Week commencing	Nature of assessment	Area of concentration
3	22 January 2024	End of Unit Test	Polygons, angles and Parallel lines (Higher) Equations and inequalities (Foundation)
4	29 January 2023	End of Unit Test	Coordinate geometry and linear graphs (Higher) Sequences (Foundation)
6	12 February 2024	End of Unit Test	Real-life graphs (Higher) 2 D shape and angle rules (Foundation)
9	11 March 2023	End of Unit Test	Quadratic, cubic and other graphs (Higher) Statistics, sampling and the averages (Foundation)
11	25 March 2023	End of Term Assessment	End of Term Assessment covering the key learning of the Spring term units

Year 10 Spring Term Mathematics Homework Focus

Week	Home learning Focus
1 - 3	Polygons, angles and Parallel lines (Higher) Equations and inequalities (Foundation)
4	Coordinate geometry and linear graphs (Higher) Sequences (Foundation)
5-6	Real-life graphs (Higher) 2 D shape and angle rules (Foundation)
7	Quadratic, cubic and other graphs (Higher) Interior and exterior angles of polygons (Foundation)
8 -9	Quadratic, cubic and other graphs (Higher) Statistics, sampling and the averages (Foundation)
10 -12	Surface Area and volume (Higher) Perimeter Area and volume (Foundation)

Please note:

The school is introducing Sparx homework from the Spring term. Sparx homework is tailored to your child, and should offer them just the right level of challenge, based on the topics above. The homework will contain 3 elements: Compulsory, Optional and Target. All questions in the Compulsory section must be answered correctly for the homework to be marked as complete. You will receive two Welcome emails, one immediately after the first handout for the child, and then the second two days later. The first email explains what Sparx Maths is, how it works, and aims to reassure you that you have nothing to do. The second email highlights how Sparx Maths has all the tools available for your child to be self-sufficient to complete their homework and how you can track his/her progress.