

Year 7 Maths

Autumn 1

Autumn 2

Topic: Algebraic Thinking

Topic: Place Value and Proportion

Autumn

<https://classroom.thenational.academy/units/sequences-2adc>

<https://classroom.thenational.academy/units/expressions-equations-and-inequalities-7d65>

<https://classroom.thenational.academy/units/forming-and-solving-equations-7d30>

Sparx Independent Learning Codes

Sequences	Term-to-term rules for numerical sequences	M381
Sequences	Term-to-term rules for sequences of patterns	M241
Sequences	Substituting into position-to-term rules	M166
Sequences	Position-to-term rules for arithmetic sequences	M991
Sequences	Position-to-term rules for sequences of patterns	M866
Sequences	Position-to-term rules for quadratic sequences	M418
Sequences	Special sequences	M981

White Rose Maths:

[White Rose Maths Year 7 Autumn](#)

The Oak Academy:

<https://classroom.thenational.academy/units/numbers-and-numerals-6c2e>

<https://classroom.thenational.academy/units/conceptualising-and-comparing-fractions-97e4>

<https://classroom.thenational.academy/units/fdp-review-9-1a-1278>

	Topic: Applications of number	Topic: Directed Number and Fractional thinking
Spring	<p>White Rose Maths: White Rose Maths Year 7 Spring</p>  <p>The Oak Academy: Solving addition and subtraction word problems (thenational.academy) Using derived facts to multiply mentally (thenational.academy) Short multiplication (thenational.academy)</p> <p>Calculating unit fractions of quantities (thenational.academy) Calculating non-unit fractions of quantities (thenational.academy)</p>	<p>White Rose Maths: White Rose Maths Year 7 Spring</p>  <p>The Oak Academy: Subtracting positive numbers (thenational.academy) Subtracting negative Numbers (thenational.academy)</p> <p>Adding and Subtracting Fractions (Part 1) (thenational.academy) Adding and Subtracting Fractions (Part 2) (thenational.academy) Adding and Subtracting Fractions (Part 3) (thenational.academy)</p>
	Topic: Lines and Angles	Topic: Reasoning with Number
Su	<p>White Rose Maths: White Rose Maths Year 7 Summer</p>	<p>White Rose Maths: White Rose Maths Year 7 Summer</p>

Summer term

Lines & angles

Constructing, measuring & using geometric notation

[VIEW](#)

Lines & angles

Developing geometric reasoning

[VIEW](#)

Reasoning with number

Developing number sense

[VIEW](#)

Reasoning with number

Sets & probability

[VIEW](#)

Reasoning with number

Prime numbers & proof

[VIEW](#)

The Oak Academy:

[Angles](#)

[Angles and parallel lines](#)

The Oak Academy:

[Axioms and Arrays](#)

[Probability](#)

[Factors and Multiples](https://teachers.thenational.academy/units/factors-and-multiples-18a4)<https://teachers.thenational.academy/units/factors-and-multiples-18a4>

Year 8 Maths

Autumn 1

Autumn 2

Topic: Proportional Reasoning

Topic: Proportional Reasoning

White Rose Maths:

[White Rose Maths Year 8 Autumn](#)

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Autumn term	Proportional reasoning	Proportional reasoning	Proportional reasoning	Proportional reasoning	Proportional reasoning	Proportional reasoning
	Ratio & scale	Multiplicative change	Multiplying and dividing fractions			
	VIEW	VIEW	VIEW			

The Oak Academy:

<https://classroom.thenational.academy/units/ratio-e0c7>

<https://classroom.thenational.academy/units/ratio-8-7a-8345>

<https://classroom.thenational.academy/units/manipulating-and-calculating-with-fractions-7bfa>

White Rose Maths:

[White Rose Maths Year 8 Autumn](#)

	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	Representations	Representations	Representations	Representations	Representations	Representations
	Working in the Cartesian plane	Representing data	Representations Tables & Probability			
	VIEW	VIEW	VIEW			

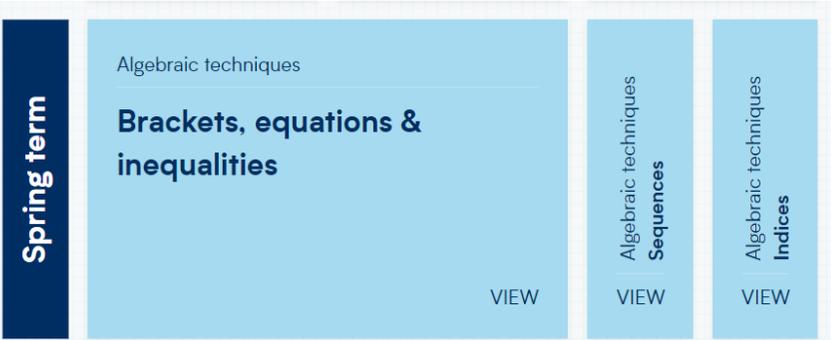
The Oak Academy:

<https://classroom.thenational.academy/units/coordinates-7ec1>

<https://classroom.thenational.academy/units/univariate-data-606c>

<https://classroom.thenational.academy/units/bivariate-data-5d0d>

Autumn

Spring	Topic::	Topic:
	<p>White Rose Maths: White Rose Maths Year 8 Spring</p>  <p>The Oak Academy: Expressions, equations and inequalities Sequences Indices (lessons 1-4)</p>	<p>White Rose Maths: White Rose Maths Year 8 Spring</p>  <p>The Oak Academy: Percentages Standard Form (lessons 5 onwards) Accuracy and Estimation (lessons 1-4)</p>
Summer	Topic::	Topic:
	<p>White Rose Maths: White Rose Maths Year 8 Summer</p>	<p>White Rose Maths: White Rose Maths Year 8 Summer</p>

	<p>Summer term</p> <div data-bbox="678 105 1041 432"> <p>Developing geometry</p> <p>Angles in parallel lines & polygons</p> <p>VIEW</p> </div> <div data-bbox="1059 105 1294 432"> <p>Developing geometry</p> <p>Area of trapezia & circles</p> <p>VIEW</p> </div> <div data-bbox="1312 105 1429 432"> <p>Developing geometry</p> <p>Line symmetry & reflection</p> <p>VIEW</p> </div> <p>The Oak Academy:</p> <p>Angles in polygons</p> <p>Area of a trapezium (lesson 2)</p> <p>Area of Circles (lesson 5)</p> <p>Reflection (lesson 2)</p>	<div data-bbox="1473 105 1966 432"> <p>Reasoning with data</p> <p>The data handling cycle</p> <p>VIEW</p> </div> <div data-bbox="1973 105 2208 432"> <p>Reasoning with data</p> <p>Measures of location</p> <p>VIEW</p> </div> <p>The Oak Academy:</p> <p>Univariate data (lessons 1-4)</p> <p>Measures of Locations (lessons 5-8)</p>
--	---	--

Year 9 Maths

Autumn	Autumn 1	Autumn 2																																																								
	Topic: Reasoning with Algebra	Topic: Constructing in 2 and 3 Dimensions																																																								
	<p>White Rose Maths: White Rose Maths Year 9 Autumn</p> <div data-bbox="607 906 1279 1222"> <table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td>Week 1</td> <td>Week 2</td> <td>Week 3</td> <td>Week 4</td> <td>Week 5</td> <td>Week 6</td> </tr> <tr> <td>Autumn term</td> <td>Reasoning with algebra</td> </tr> <tr> <td></td> <td>Straight line graphs</td> <td>Forming & solving equations</td> <td>Testing conjectures</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>VIEW</td> <td>VIEW</td> <td>VIEW</td> <td></td> <td></td> <td></td> </tr> </table> <p>The Oak Academy:</p> <p>https://classroom.thenational.academy/units/linear-graphs-3380</p> <p>https://classroom.thenational.academy/units/forming-and-solving-equations-7d30</p> </div>		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Autumn term	Reasoning with algebra		Straight line graphs	Forming & solving equations	Testing conjectures					VIEW	VIEW	VIEW				<p>White Rose Maths: White Rose Maths Year 9 Autumn</p> <div data-bbox="1489 932 2033 1222"> <table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td>Week 7</td> <td>Week 8</td> <td>Week 9</td> <td>Week 10</td> <td>Week 11</td> <td>Week 12</td> </tr> <tr> <td></td> <td>Constructing in 2 & 3 dimensions</td> </tr> <tr> <td></td> <td>Three dimensional shapes</td> <td>Constructions & congruency</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>VIEW</td> <td>VIEW</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>The Oak Academy:</p> <p>https://classroom.thenational.academy/units/classifying-2-d-shapes-fc45</p> <p>https://classroom.thenational.academy/units/volume-and-surface-area-of-prisms-7967</p> <p>https://classroom.thenational.academy/units/similarity-and-enlargement-4648</p> </div>		Week 7	Week 8	Week 9	Week 10	Week 11	Week 12		Constructing in 2 & 3 dimensions		Three dimensional shapes	Constructions & congruency						VIEW	VIEW														
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6																																																				
Autumn term	Reasoning with algebra	Reasoning with algebra	Reasoning with algebra	Reasoning with algebra	Reasoning with algebra	Reasoning with algebra																																																				
	Straight line graphs	Forming & solving equations	Testing conjectures																																																							
	VIEW	VIEW	VIEW																																																							
	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12																																																				
	Constructing in 2 & 3 dimensions	Constructing in 2 & 3 dimensions	Constructing in 2 & 3 dimensions	Constructing in 2 & 3 dimensions	Constructing in 2 & 3 dimensions	Constructing in 2 & 3 dimensions																																																				
	Three dimensional shapes	Constructions & congruency																																																								
	VIEW	VIEW																																																								

Spring	Topic::	Topic:						
	<p>White Rose Maths: White Rose Maths Year 9 Spring</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #003366; color: white; text-align: center; vertical-align: middle; font-weight: bold;">Spring term</td> <td style="background-color: #ffcc00; text-align: center; padding: 10px;"> Reasoning with number Numbers VIEW </td> <td style="background-color: #ffcc00; text-align: center; padding: 10px;"> Reasoning with number Using percentages VIEW </td> <td style="background-color: #ffcc00; text-align: center; padding: 10px;"> Reasoning with number Maths & money VIEW </td> </tr> </table> <p>The Oak Academy: Manipulating and Calculating with fractions (recap) Percentage Increase and decrease Finance</p>	Spring term	Reasoning with number Numbers VIEW	Reasoning with number Using percentages VIEW	Reasoning with number Maths & money VIEW	<p>White Rose Maths: White Rose Maths Year 9 Spring</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ffcc00; text-align: center; padding: 10px;"> Reasoning with geometry Deduction VIEW </td> <td style="background-color: #ffcc00; text-align: center; padding: 10px;"> Reasoning with geometry Rotation & translation VIEW </td> <td style="background-color: #ffcc00; text-align: center; padding: 10px;"> Reasoning with geometry Pythagoras' theorem VIEW </td> </tr> </table> <p>The Oak Academy: Parallel lines and Polygons Transforming 2D figures (lesson 1 and 2) Pythagoras's Theorem</p>	Reasoning with geometry Deduction VIEW	Reasoning with geometry Rotation & translation VIEW
Spring term	Reasoning with number Numbers VIEW	Reasoning with number Using percentages VIEW	Reasoning with number Maths & money VIEW					
Reasoning with geometry Deduction VIEW	Reasoning with geometry Rotation & translation VIEW	Reasoning with geometry Pythagoras' theorem VIEW						
Summer	Topic::	Topic:						
	<p>White Rose Maths: White Rose Maths Year 9 Summer</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #003366; color: white; text-align: center; vertical-align: middle; font-weight: bold;">Summer term</td> <td style="background-color: #ffcc00; text-align: center; padding: 10px;"> Reasoning with proportion Enlargement & similarity VIEW </td> <td style="background-color: #ffcc00; text-align: center; padding: 10px;"> Reasoning with proportion Solving ratio & proportion problems VIEW </td> <td style="background-color: #ffcc00; text-align: center; padding: 10px;"> Reasoning with proportion Rates VIEW </td> </tr> </table> <p>The Oak Academy: Transforming 2D figures - enlargements(lesson 7 and 8) Ratio Ratio, real life graphs and rates of change</p>	Summer term	Reasoning with proportion Enlargement & similarity VIEW	Reasoning with proportion Solving ratio & proportion problems VIEW	Reasoning with proportion Rates VIEW	<p>White Rose Maths: White Rose Maths Year 9 Summer</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ffcc00; text-align: center; padding: 10px;"> Representations & revision Probability VIEW </td> <td style="background-color: #ffcc00; text-align: center; padding: 10px;"> Algebraic Representation VIEW </td> <td style="background-color: #d9d9d9; text-align: center; padding: 10px;"> Revision </td> </tr> </table> <p>The Oak Academy: Probability Quadratic graphs</p>	Representations & revision Probability VIEW	Algebraic Representation VIEW
Summer term	Reasoning with proportion Enlargement & similarity VIEW	Reasoning with proportion Solving ratio & proportion problems VIEW	Reasoning with proportion Rates VIEW					
Representations & revision Probability VIEW	Algebraic Representation VIEW	Revision						

Year 10 Maths

Autumn 1

Autumn 2

Topic: Similarity

Topic: Developing Algebra

White Rose Maths:

[White Rose Maths Year 10 Autumn](#)

Week 1 Week 2 Week 3 Week 4 Week 5 Week 6

Autumn term

Similarity

Congruence, similarity & enlargement

VIEW

Similarity

Trigonometry

VIEW

The Oak Academy:

<https://classroom.thenational.academy/units/similarity-and-enlargement-4648>

<https://classroom.thenational.academy/units/trigonometry-1-0125>

<https://classroom.thenational.academy/units/trigonometry-2-5cbb>

White Rose Maths:

[White Rose Maths Year 10 Autumn](#)

Week 7 Week 8 Week 9 Week 10 Week 11 Week 12

Developing algebra

Representing solutions of equations & inequalities

VIEW

Developing algebra

Simultaneous equations

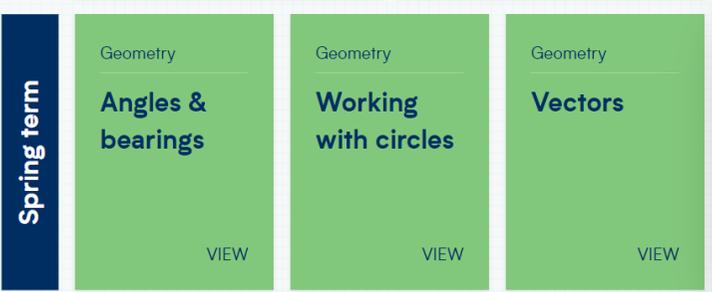
VIEW

The Oak Academy:

<https://classroom.thenational.academy/units/graphs-of-inequalities-9a86>

<https://classroom.thenational.academy/units/revise-simultaneous-equations-1dba>

Autumn

	https://classroom.thenational.academy/lessons/know-when-to-use-pythagoras-or-trigonometry-to-solve-problems-6wt3ac	https://classroom.thenational.academy/units/simultaneous-equations-linear-64b3
Spring	<p style="text-align: center;">Topic::</p> <p>White Rose Maths: White Rose Maths Year 10 Spring</p>  <p>The Oak Academy: Bearings Circles Translate and Vectors</p>	<p style="text-align: center;">Topic:</p> <p>White Rose Maths: White Rose Maths Year 10 Spring</p>  <p>The Oak Academy: Ratio 1 and 2 Percentage increase and decrease Probability 2</p>
	<p style="text-align: center;">Topic::</p> <p>White Rose Maths: White Rose Maths Year 10 Summer</p>	<p style="text-align: center;">Topic:</p> <p>White Rose Maths: White Rose Maths Year 10 Summer</p>
Summer		

Summer term	Delving into data Collecting, representing & interpreting data VIEW	Using number Non-calculator methods VIEW	Using number Types of number & sequences VIEW	Using number Indices & roots VIEW	Expressions Manipulating expressions VIEW
	The Oak Academy: Pie chart and two-way tables Scatter diagrams and frequency trees Rules of number			The Oak Academy: Types of number Linear sequences Standard Form Algebraic proof	

Year 11 Maths

Autumn 1 and 2

Topic: Mixture of Topics

Autumn	Foundation Tier:	Higher Tier:
	Y11F Cycle 1 Straight line graphs Sequences Standard form & indices Circles and sectors Vectors The Oak Academy: https://classroom.thenational.academy/units/straight-line-graphs-y-mx-c-2e9f https://classroom.thenational.academy/units/straight-line-graphs-2-parallel-lines-f1ea https://classroom.thenational.academy/units/linear-sequences-f0bf	Y11H Cycle 1 Expanding binomials Recurring decimals to fractions Algebraic proof Geometric proof Circles and tangents Simultaneous (linear/quadratic) The Oak Academy: https://classroom.thenational.academy/units/further-algebra-change-the-subject-binomial-expansion-9906 https://classroom.thenational.academy/units/recurring-decimals-0411 https://classroom.thenational.academy/units/algebraic-proof-f6a4

Spring

<https://classroom.thenational.academy/units/standard-form-writing-and-converting-f42a>
<https://classroom.thenational.academy/lessons/multiplying-two-numbers-in-standard-form-60w66r>
<https://classroom.thenational.academy/units/rules-of-indices-numbers-c78c>
<https://classroom.thenational.academy/units/circles-c694>
<https://classroom.thenational.academy/units/parts-of-circles-1-semi-and-quarter-circles-b052>
<https://classroom.thenational.academy/units/translate-and-vectors-1-4275>
<https://classroom.thenational.academy/units/vectors-2-429e>

<https://classroom.thenational.academy/units/parts-of-a-circle-1-2-0fd7>
<https://classroom.thenational.academy/units/circle-graphs-8e03>
<https://classroom.thenational.academy/units/simultaneous-equations-linear-64b3>
<https://classroom.thenational.academy/units/one-linear-and-one-quadratic-simultaneous-equations-86b4>

Topic::

Topic:

Foundation Tier:

Y11F Cycle 2

- Time Calculations
- Compound Measures
- Ratio and Proportion
- Loci and Constructions
- Recognising Graphs
- Balancing and Rearranging
- Probability

The Oak Academy:

[Time](#) (lesson 9 and 10)

[Ratio, real life graphs and rates of change](#)

[Ratio review](#)

[Loci](#)

Higher Tier:

Y11H Cycle 2

- Combinations and probability
- Vector proof
- Ratio and functions
- Loci
- Iteration
- Capture/recapture
- Graph transformations

The Oak Academy:

[Higher probability](#)

[Higher Vectors 1](#)

[Functions](#)

	Simple graphs Solving equations 1 (One step, Two step and Brackets) Probability 1 Probability 2 Probability 3	Loci Iteration Data collection - higher (Capture/ recapture lesson 4) Other Graphs (Trig, exponential and transformations)
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Summer</p>	Topic::	Topic:
	<p><i>Foundation and Higher</i></p> <div style="background-color: #e0b0b0; padding: 5px; margin-bottom: 10px;"> Summer term Revision and examinations </div> <p> Pinpoint Learning: maths education - personalised – individual personalised booklets Sparx Maths – revision and personalised home learning onmaths The home of GCSE Maths – past paper practise </p>	