

St Thomas More RC College Curriculum Topic Overview commencing September 2021

Subject: Maths Year Group 7

Week	Autumn
1	Sequences
2	Sequences
3	Sequences
4	Understand and use algebraic Notation
5	Understand and use algebraic Notation
6	Equality and Equivalence
7	Equality and Equivalence
8	Place value and ordering integers and decimals
9	Place value and ordering integers and decimals
10	Place value and ordering integers and decimals
11	Fraction, decimal and percentage equivalence
12	Fraction, decimal and percentage equivalence
13	Fraction, decimal and percentage equivalence
14	End of term assessment
15	Reflection Tasks

Week	Spring
166	Solving with adding and Subtracting
17	Solving with adding and Subtracting
18	Solving with Multiplying and Dividing
19	Solving with Multiplying and Dividing
20	Fraction and Percentage or amounts
21	Fraction and Percentage or amounts
22	Directed numbers
23	Operations with Directed numbers
24	Operations with Directed numbers
25	Addition and Subtraction of fractions
26	Addition and Subtraction of fractions
27	Addition and Subtraction of fractions

Week	Summer
28	Constructing, Measuring and using Geometric Notation
29	Constructing, Measuring and using Geometric Notation
30	Constructing, Measuring and using Geometric Notation
31	Developing Geometric Reasoning
32	Developing Geometric Reasoning
33	Developing Geometric Reasoning
34	Developing Number Sense
35	Developing Number Sense
36	Sets and Probability
37	Sets and Probability
38	Prime Numbers and Proof
39	Prime Numbers and Proof

St Thomas More RC College Curriculum Topic Overview commencing September 2021

Subject: Maths Year Group 8

Week	Autumn
1	Ratio and Scales
2	Ratio and Scale
3	Ratio and Scale
4	Multiplicative Change
5	Multiplicative Change
6	Multiplying and Dividing Fractions
7	Multiplying and Dividing Fractions
8	Working in the Cartesian Plane
9	Working in the Cartesian Plane
10	Working in the Cartesian Plane
11	Representing data
12	Representing data
13	Tables and probability
14	End of term assessment
15	Tables and probability

Week	Spring
	Brackets, Equations and Inequalities
	Brackets, Equations and Inequalities
	Brackets, Equations and Inequalities
	Sequences
	Indices
	Indices
	Fractions and Percentages
	Fractions and Percentages
	Standard Index Form
	Standard Index Form
	Number Sense
	Number Sense

Week	Summer
28	Angles in Parallel Lines
29	Angles in Polygons
30	Angles in Polygons
31	Area of Trapezia and Circles
32	Area of trapezia and circles
33	Line Symmetry and Reflection
34	Line Symmetry and Reflection
35	The Data Handling Cycle
36	The Data Handling Cycle
37	Measures of Location
38	Measures of Location
39	Measures of Location

St Thomas More RC College Curriculum Topic Overview commencing September 2021

Subject: Maths Year Group 9

Week	Autumn
1	Straight Line graphs
2	Straight Line graphs
3	Straight Line graphs
4	Forming and solving equations
5	Forming and solving equations
6	Forming and solving equations
7	Testing Conjectures
8	Testing Conjectures
9	Three dimensional Shapes
10	Three dimensional Shapes
11	Three dimensional Shapes
12	Constructions and Congruence
13	Constructions and Congruence
14	Constructions and Congruence
15	End of Term Assessments

Week	Spring
16	Numbers
17	Numbers
18	Using Percentages
19	Using Percentages
20	Maths and Money
21	Maths and Money
22	Deduction
23	Deduction
24	Rotation and Translation
25	Rotation and Translation
26	Pythagoras Theorem
27	Pythagoras Theorem

Week	Summer
28	Enlargement and Similarity
29	Enlargement and Similarity
30	Solving Ratio and Proportion Problems
31	Solving Ratio and Proportion Problems
32	Rates
33	Rates
34	Probability
35	Probability
36	Algebraic Representation
37	Algebraic Representation
38	Indices and Powers
39	Indices and Powers

St Thomas More RC College Curriculum Topic Overview commencing September 2021

Subject: Maths Year Group 10 (Groups 10a3, 4, 10b3, 4)

Week	Autumn
1	
2	Simplifying expression and laws of indices
3	Expanding products of two binomials, recognise the difference of two squares
4	Factorising including that of quadratic expressions
5	Substituting in expressions and formulae, rearranging formulae
6	Rounding, estimating and using Bounds and error intervals
7	Circumference and Area of circles
8	Arc lengths and sector areas
9	Surface area and volume of prisms including cylinders
10	Surface area and volume of pyramids, spheres and cones
11	Pythagoras' Theorem
12	Trigonometry
13	Pythagoras and Trigonometry (applications/problem solving)
14	Review of Algebra from weeks 1-4
15	Review of Algebra from weeks 1-4

Week	Spring
16	Constructions such as perpendicular and angle bisectors
17	Loci
18	Angles (including angles within parallel lines)
19	Interior and exterior angles in polygons
20	Ratio and Proportion
21	Direct and Inverse Proportion
22	Percentage Review including increase/decrease, original value problems and simple interest
23	Growth & Decay
24	Plot graphs of linear functions
25	Plot graphs of quadratic functions
26	Solving linear equations
27	Solving quadratic equations by factorising

Week	Summer
28	Simultaneous equations
29	Simultaneous equations
30	Decimals, fractions and percentages Review
31	Scatter diagrams
32	Index notation, powers and roots, laws of indices
33	Standard form
34	Estimation and exact values (including trig)
35	Inequalities
36	Using $y=mx+c$ to sketch straight line graphs
37	Compound units (e.g. speed, density, pressure)
38	Bearings and scale drawings
39	Plans and elevations

St Thomas More RC College Curriculum Topic Overview commencing September 2021

Subject: Maths Year Group 10 (Groups 10a1,2, 10b1,2)

Week	Autumn
1	Simplifying expression and laws of indices
2	Expanding products of two and more than two binomials, recognise the difference of two squares
3	Factorising including that of quadratic expressions and harder quadratics
4	Substituting in expressions and formulae, rearranging formulae
5	Constructing proof using algebra, simplify and manipulate algebraic fractions
6	Rounding, estimating and using upper and lower bounds and error intervals
7	Circumference and Area of circles
8	Arc lengths and sector areas
9	Surface area and volume of prisms including cylinders
10	Surface area and volume of pyramids, spheres and cones
11	Pythagoras' Theorem in 2D and 3D shapes
12	Trigonometry
13	Pythagoras and Trigonometry (applications/problem solving)
14	Construct and interpret histograms, calculate estimates of the mean, median, mode, IQR, ...
15	Draw and interpret Cumulative frequency and Box plots

Week	Spring
16	Constructions such as perpendicular and angle bisectors
17	Loci
18	Angles (including angles within parallel lines)
19	Interior and exterior angles in polygons
20	Ratio and Proportion Including formulating equations)
21	Direct and Inverse Proportion
22	Simple interest and Compound interest
23	Growth & Decay (expressing as a formula)
24	Solving simultaneous equations graphically
25	Solving linear equations
26	Solving quadratic equations by factorising
27	Solving quadratic equations using the quadratic formula

Week	Summer
28	Recurring decimals (proof)
29	Scatter Graphs
30	Index notation, powers and roots, laws of indices
31	Standard form
32	Estimation and exact values (including trig)
33	Surds
34	Solving quadratic equations Review (including completing the square)
35	Regions
36	Compound units (e.g. speed, density, pressure)
37	Bearings and scale drawings
38	Plans and elevations
39	Sine and Cosine Rules

St Thomas More RC College Curriculum Topic Overview commencing September 2021

Subject: Maths Year Group 11 (Higher-Groups 11a3 & b1)

Week	Autumn
1	Expanding triple brackets
2	Quadratic formula
3	Recurring decimals
4	Histograms
5	Cumulative frequency and box plots
6	n th term of quadratic sequence
7	Basic proof
8	Surds
9	Mock exam preparation
10	Mock exam preparation
11	Indices fractional powers
12	Solving more complex equations
13	Direct and indirect proportion
14	Completing the square and finding minimum points
15	Overview of topics completed so far

Week	Spring
16	Graphs of circles and estimating from intersecting lines
17	Similar shapes working with areas and volumes
18	Changing the subject
19	Algebraic fractions
20	Area of a triangle using trigonometry
21	Surface area and volume of 3D shapes
22	Area and volume of composite shapes 2D & 3D
23	Factorising
24	Upper and lower bounds
25	Solving quadratics
26	Exam preparation
27	Exam preparation

Week	Summer
28	Exam preparation
29	Exam preparation
30	Exam preparation
31	Exam preparation

St Thomas More RC College Curriculum Topic Overview commencing September 2021

Subject: Maths Year Group 11 (Higher-Groups 11a1 & a2)

Week	Autumn
1	3D Shapes
2	Volume and Surface Area
3	Volume and Surface Area
4	Proportion
5	Gradient of Curves
6	Area under a curve
7	Exponential graphs
8	Vectors
9	Vectors
10	Revision
11	Mocks
12	Mocks
13	Inequality Regions
14	Topics Highlighted from Mocks
15	Topics Highlighted from Mocks

Week	Spring
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Week	Summer
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