Faculty: Maths

Literary Canon Mapping – Overview

KS3 CURRICULUM		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Topic/Scheme	**Algebraic thinking** Sequences (week1-3) Understand and use algebraic notation (week 4-5) Equality & equivalence (week 6-8)	**Place value & proportion** Place value & ordering integers and decimals (week 9-11) Fraction, decimal & percentage equivalence (week 12-14) **Operations of number** Solving problems with addition and subtraction (week 15-17)	**Operations of number** Solving problems with multiplication & division (week 18-20)	Fractions & percentages of amounts (week 21-23) **Directed Number** Operations & equations with directed number (week24-25) **Fractional thinking** Addition and subtraction of fractions (week 26-29)	**Lines & angles** Constructing, measuring & using geometric notation (week30-32)	**Lines & angles** Developing geometric reasoning(week33-34) **Reasoning with number** Sets & probability (week 35-36) Prime numbers & proof (week 37-39)
	Reading Material	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost
	Key Vocabulary	**Sequences(week1-3)** Sequence, Term, Rule, Position, Rule, Term-to-term, Table, Axes, Linear, Non-Linear, Difference, Constant difference, Ascending, Descending, Arithmetic, Second difference, Geometric, Fibonacci, Position	**Place value & ordering integers (week 9-11)** Place value, Digit, Billion, Placeholder, Integer, Equal division, Interval, Scale, Gap, Spaces, Approximate, Round, Nearest, Convention, Halfway, Compare, Not equal, Greater than, Less than, =, ≠, <, >, ≤, ≥, Order, Ascending, Descending,	**Solving problems with multiplication & division (week 18-20)** Product, Multiply, Divide, Inverse, Quotient, Commutative, Factor, Array, Venn diagram, Odd, Even, Integer, Multiple, Common, Lowest Common Multiple, Place value, Ones, Tenths,	**Fractions & percentages of amounts (week 21-23)** Fraction, Equivalent, Numerator, Denominator, Whole, Original, Place value, Percent, Percentage, Decimal, Convert, Equivalent, Fraction **Operations & equations with**	**Constructing, measuring & using geometric notation (week-30-32)** Line, Line segment, Geometric figure, Notation, Polygon, Line, Segment, Length, Height, Width, Figure, Quarter/Half/Three Quarter/ Full turn, Degrees, Angle,	**Developing geometric reasoning(week33-34)** Sum, Angle, Degrees, Line Segment, Notation, Adjacent, Angle, Vertically opposite, Line, Intersect, Equilateral, Scalene, Right-angled, Sum, Quadrilateral, Convex, Concave, Parallelogram,

		Understand and use algebraic notation(week4-5) Function, Input, Output, Estimate, Operation, Square, Inverse, Bar model, Variable, Coefficient, 3a for 3 × a, a/3 for a ÷ 3, a^2 for a × a, ab for a × b, Commutative, Expression, Order, Equation, Evaluate, Substitute, Constant, Sequence, Non-linear, Linear, Rule, Term-to-term, Position-to-term, Graph, Axis, Axes, Scale, Curve **Equality and equivalence (week 6-8)** Equality, Equation, Equals, Is equal to, Fact family, Bar model, Is equal to, Solve, Solution, Unknown, Inverse, Term, Like, Unlike, Coefficient, Index, Expression, Equivalent, Like/unlike, ≡, Simplify, Collect	Place Value, Leading digit, Range, Greatest, Least, Difference, Median, Middle, Order, Average, Tenth, Hundredth, Decimal, Decimal point, Interval, Integer, Significant figure, Power, Index, Million, Billion, Standard Form, Scientific notation, Negative **Fraction, decimal & percentage equivalence (week12-14)** Place value, Digit, Placeholder, Tenth, Hundredth, Interval, Fraction, Decimal, Equivalent, Equal, Quarter, Shaded, Percent, Percentage, Out of one hundred, Half, Three-quarters, Pie chart, Equal parts, Sector, Denominator, Numerator, Part, Whole, Division, Quotients, Operator, Improper, Mixed Number, Rational, Recurring, Convert **Solving problems with addition and subtraction(week15-17)** Total, Sum, Difference, Number Line, Commutative, Associative, Inverse, Bridging, Compensation, Partition, Count on, Number bonds, Column Method, Place Value, Carrying, Exchange, Placeholder, Decimal	Hundredths, Multiply, Divide, Metric, Milli-, Centi-, Kilo-, Convert, Litre, Gram, Metre, Product, Efficient, Estimate, Adjust, Estimate, Divisor, Dividend, Quotient, Remainder, Decimal, Order, Operation, priority, Base, Perpendicular height, Parallelogram, Parallel, Trapezium, Mean, Average, Median, Range	**directed number (week 24-25)** Positive, Negative, Reflection, Symmetric, Sea level, Ascending, Descending, Smaller/bigger than, Positive, Negative, Greater/less than, Increase, Decrease, Difference, Minus, Subtract, Partition, Zero pair, Product, Multiply, Commutative, Inverse, Calculator, Sign change, ±, Fraction button, Substitute, Expression, Order of operations, Solve, Equation, Balance, Solution, Function machine, Positive/negative solution, Indices, Brackets, Commutative, Priority, Square, Square root, Inverse, Positive, Negative, Power, Indices, Inverse, Root, Exponent **Addition & subtraction of fractions (week26-29)** Equal parts, Congruent, Divide, Denominator, Numerator, Ascending, Descending, Smaller/bigger than, Positive, Negative,	Rotation, Acute, Obtuse, Right-angle, Reflex, Interior, Exterior, Protractor, Degrees, Half-turn, Sum, Measure, Construct, Parallel, Perpendicular, Intersect, Equilateral, Isosceles, Scalene, Square, Rectangle, Kite, Rhombus, Parallelogram, Trapezium, Parallel, Perpendicular, Polygon, Edges, Vertices, Equal, Triangle, Decagon, Pair of Compasses, Side, Edge, Vertex, Vertices, Point, Regular, Rhombus, Diagonals, Compound, Proportion, Frequency, Fraction, Total, Comparison, Sector, Protractor	Rhombus, Point, Straight Line, Polygon, Parallel, Perpendicular, Conjecture, Equal, Opposite, Transversal, Co-interior, Intersect, Corresponding, Alternate, Proof, Demonstration, Opposite, Interior, Exterior **Sets & Probability(weeks35-36)** Universal Set, Inclusive, Element, Member, Set, Venn diagram, Intersection, Mutually Exclusive, Union, Intersect, Complement, And, Or, Both, Not, Impossible, Likely, Even, Unlikely, Certain, Random, Bias, Event, Sample Space, Possibilities, Simplify, Equivalent, Equally Likely, Scale, Fair, Whole, Equivalence, Outcomes, Sum **Prime numbers & proof (week37-39)** Multiple, Integer, Positive, Zero, Factor, Divisible, Remainder, Term, Factorise, Divisor, Prime number, Odd, Even, Digit, Triangular Number, Relationship, Investigate, Square

			point, Equivalence, Estimating, Partition, Equation, Subtraction, Inverse, Digit, Difference, Formal method, Estimate, Mental, Written, Jottings, Calculator, Length, Path, Distance, Units, Edges, Polygon, Profit, Loss, Balance, Credit, Debit, Statement, Change, Bill, Row, Column, Entry, Total, Hours, Minutes, Frequency, Frequency Tree, Sum, Part-whole, Frequency, Axis, Scale, Dual, Multiple, Standard form, Power, Exponent, Significant figure, Billion, Million		Greater/less than, Unit fraction, Whole, Multiple, Mixed number, Addition, Subtraction, Integer, Whole, Partition, Subtract, Equivalent, Lowest Common Multiple, LCM, Common denominator, Commutative, Mixed number, Improper fraction, Sequence, Substitute, Solve, Equation, Linear, Geometric, Inverse, Expression, Place value, Tenths, Hundredths, Decimal, Equivalent, Simplify, Like terms, Collect, In terms of, Common denominator		Number, Expression, Common Factor, Factorising, Factorise, Highest Common Factor, HCF, Common Multiple, Product, Lowest Common Multiple, LCM, Prime Factor, Express, Union, Intersection, Conjecture, Explain, Relationship, True, False, Proof, Demonstration, Always, Systematic, Never, Sometimes, Assumption, Counterexample
	Link to Scheme (Subject Curriculum Plan or Schemes of Learning)	**Sequences** https://assets.whiteroseeducation.com/resources-2022/year-7/autumn-block-1-sequences/1.-Year-7-Sequences-Small-Steps-2019-20.pdf **Understand and use algebraic notation** https://assets.whiteroseeducation.com/resources-2022/year-7/autumn-block-2-understand-use-algebraic-notation/2.-Year-7-Algebraic-Notation-Small-Steps-2019-20.pdf	**Place value and ordering integers** https://assets.whiteroseeducation.com/resources-2022/year-7/autumn-block-4-place-value-ordering/Year-7-Autumn-Block-4-Place-Value.pdf **Fraction, decimal & percentage equivalence** https://assets.whiteroseeducation.com/resources-2022/year-7/autumn-block-5-fdp-equivalence/wrm-y7-sol-autumn-b5-FDP.pdf **Solving problems with addition and subtraction**	**Solving problems with multiplication and division** https://assets.whiteroseeducation.com/resources-2022/year-7/spring-block-2-multiplication-division/7.-Year-7-Multiplication-and-Division-2019-20NEW.pdf	**Fractions & percentages of amounts** https://assets.whiteroseeducation.com/resources-2022/year-7/spring-block-3-fractions-percentages-of-amounts/8.-Year-7-Fractions-and-Percentages-of-Amounts-2019-20.pdf **Operations & equations with directed number** https://assets.whiteroseeducation.com/resources-2022/year-7/spring-block-4-	**Constructing, measuring & using geometric notation** https://assets.whiteroseeducation.com/resources-2022/year-7/summer-block-1-constructing-measuring-using-geometric-notation/11.-Year-7-Constructing-and-Measuring-2019-20.pdf	**Developing geometric reasoning** https://assets.whiteroseeducation.com/resources-2022/year-7/summer-block-2-develop-geometric-reasoning/12.-Year-7-Geometric-reasoning-2019-20.pdf **Sets & Probability** https://assets.whiteroseeducation.com/resources-2022/year-7/summer-block-4-sets-and-probability/14.-Year-7-Sets-and-

		Equality and equivalence https://assets.whiteroseeducation.com/resources-2022/year-7/autumn-block-3-equality-equivalence/3.-Year-7-Equality-and-Equivalence-Small-Steps-2019-20.pdf	https://assets.whiteroseeducation.com/resources-2022/year-7/spring-block-1-addition-subtraction/6.-Year-7-Addition-and-Subtraction-2019-20.pdf		directed-number/9.%20Year%207%20-%20Directed%20Number%20-%202020-21.pdf **Addition & subtraction of fractions** https://assets.whiteroseeducation.com/resources-2022/year-7/spring-block-5-addition-subtraction-of-fractions/10.-Year-7-Fractional-Thinking-2019-20.pdf		Probability-2019-20.pdf **Prime numbers & proof** https://assets.whiteroseeducation.com/resources-2022/year-7/summer-block-5-prime-numbers-proof/15.-Year-7-Prime-Numbers-and-Proof-2019-20.pdf

KS3 CURRICULUM		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 8	Topic/Scheme	**Proportional reasoning** Ratio & scale (week1-3) Multiplicative change(week4-5) Multiplying & dividing fractions(week 6-8)	**Representations** Working in the Cartesian plane (week9-11) Representing data (week12-13) Tables & probability (week14-15)	**Algebraic techniques** Brackets, equations & inequalities (week 16-19)	**Algebraic techniques** Sequences(week 21) **Developing number** Fractions & percentages (week22-24) Standard index form (week25-26)	**Developing geometry** Angles in parallel lines & polygons (week27-30) Area of trapezia & circles (week31-32)	**Reasoning with data** The data handling cycle (week33-36) Measures of location (week 37-40
	Reading Material	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost
	Key Vocabulary	**Ratio & scale (week1-3)** Ratio, Equal parts, For every, Proportion Relationship, Order, Colon, Divide, Multiply, Part, Double number line, Proportional, Multiplier, Placeholder, Units, Share, Factors, Equivalent,	**Working in the Cartesian plane (week9-11)** Quadrant, Coordinates, Horizontal, Vertical, Axis, Origin, Parallel, Straight line, Equation, Graph, Diagonal, Scale, Multiple, Steep, Linear, Substitute, Table, Slope, Scale, Axes,	**Brackets, equations & inequalities (week 16-19)** Expression, Simplify, Term, Substitute, Coefficient, Equivalent, Positive, Negative, Directed, Solve, Expand, Multiply out, Bracket,	**Sequences (week 21)** Sequence, Position, Term, Linear, Non-linear, Fibonacci, Difference, Constant, Term-to-term, Algebraic, Integer, Non-integer, Substitute, Bracket,	**Angles in parallel line & polygons (week 27-30)** Adjacent, Angles at a point, Vertically Opposite, Straight, Acute, Obtuse, Reflex, Right angle, Parallel, Transversal, Alternate,	**The data handling cycle (week 33-36)** Questionnaire, Questions, Design, Multiple choice, Response box, Biased, Pictogram, Bar chart, Line chart, Tally, Frequency, Multiple

		Divide, Simplify, Common factors, Scale, Simplify, Compare, Units, Total parts, Fraction, Proportion, Denominator, Numerator, Perimeter, Circumference, Constant, Pi (π), Regular, Diameter, Radius, Right-angled triangle, Gradient, Slope, Steep **Multiplicative change (week4-5)** Proportion, Ratio, Double, Triple, Linear, Variable, Linear, Axes, Labelling, Units, Conversion, Approximation, Exchange rate, Currency, Conversion, Estimate, Sterling, Rate, Directly proportional, Origin, Constant, Relationship, Linear, Orientation, Similar, Corresponding, Proportion, Scale factor, Enlargement, Object, Image, Length, Not to scale, Plan, Distance, Conversion, Units, Metric **Multiplying and dividing fractions (week6-8)** Unit fraction, Numerator, Denominator, Product, Repeated addition, Square, Whole, Unit fraction, Non-unit fraction, Commutative, Numerator, Denominator, Quotient,	Linear, Proportion, Unitary, Multiplier, Direct, Steepness, Difference, Gradient, Input, Output, Intercept, Negative, Incline, Ration, Slope, Difference, Sequence, Ascending. Descending, Substitution, Table of Values, Curve, Non-linear, Symmetrical, Midpoint, Equidistant, Segment, Mean **Representing data(week12-13)** Variable, Relationship, Origin, Scale, Coordinate, Axis, Increase, Decrease, Correlation, Positive, Negative, Strong, Weak, Line of best fit, Estimate, Extrapolate, Outlier, Non-linear, Variable, Discrete, Continuous, Measured, Counted, Qualitative, Quantitative, Frequency, Ungrouped, Total, Subtotal, Grouped, Tally, Range, Group, Equal, Frequency, Class, Class Boundary, Less than, <, Equal to, =, Greater than, >, Ratio, Fraction, Percentage **Tables and probability (week14-15)** Outcomes, Sample space, Set, Probability, Systematic, Chance, Event, Equally likely, Unbiased, P(event), Two-way table, Sample, Denominator,	Identity, Product, Factor, Factorise, Factorise fully, Common, Common factor, HCF, Like terms, Unlike terms, Expand, Equivalent, Binomial, Quadratic, Solve, Equation, Unknown Coefficient, Expand, Solution, Side, Form, Check, Test, Inequality, Satisfy, Solution set, Greater/less than (or equal), Balance, Formula, Variable, Subject	Expand, Rule, Term-to-term, Position-to-term, Coefficient, **Fractions & percentages (week22-24)** Fraction, Decimal, Percentage, Equivalent, Denominator, Numerator, Fraction key, Estimate, Rounding, Conversion, Reduce, Decrease, Multiplier, Growth, Decimal, Round, Integer, Profit, Loss, Interest, Change, Original, Invest, Increase, Decrease, Profit/Loss, Express, Reverse, Multiple **Standard index form (week25-26)** Base, Index/Indices, Power, Exponent, Standard (index) form, Negative, Place value, Base, Negative, Commutative, Scientific notation, SCI/EXP, Power, Reciprocal, Zero, Fraction, Root	Corresponding, Angle, Line, Supplementary, Co-interior, Points, Isosceles, Equilateral, Scalene, Right-angled, Rhombus, Kite, Parallelogram, Square, Trapezium, Rectangle, Perpendicular, Bisect, Delta, Exterior, Interior, Regular, Polygon, Sum, Total, Pentagon, Hexagon, Heptagon, Octagon etc., Demonstration, Justify, Proof. Bisector, Compasses, Line segment **Area of trapezia & circles (week31-32)** Formula, Area, Triangle, Square, Parallelogram, Rhombus, Trapezium, Trapezia, Parallel, Perpendicular height, Formula, Compound, Component shapes, Parallelogram, Trapezium, Perpendicular, Sector, Rectangle, Estimate, Infinity, Radius, Diameter, π, Approximately, in terms of π, Decimal place, Calculate, Substitute, Units, Significant figures (SF), Compound, Component shapes	bar chart, Scale, Axes, Comparison, Key, Pie chart, Fraction, Full turn, Proportion, Line graph, Change, Read off/read from, Pie/Bar charts, Scatter graphs, Bivariate, Grouped data, Frequency diagram, Discrete, Continuous, Intervals, Range, Spread, Consistent, Average, Compare, Distribution, Proportion, Broken axis, Mislead, Difference, Proportion **Measures of location (week37-40)** Average, Mean, Median, Mode, Modal value, Total, Frequency, Represent, Subtotal, Mode, Estimate, Midpoint, Modal Class, Outlier, Range, Consistent

		Divide, Estimate, Reciprocal, Convert, Simplify, Factors, Generalise, Cancel, Term, Expression, Simplest form	Intersection, And/Or, Union, Region, Total, Possibilities, Outcomes, Product, Table, Order				
	Link to Scheme **(Subject Curriculum Plan or Schemes of Learning)**	**Ratio & scale** https://assets.whiteroseeducation.com/resources-2022/year-8/autumn-block-1-ratio-and-scale/1.-Year-8-Proportional-Reasoning-Ratio-and-Scale-1.pdf **Multiplicative change** https://assets.whiteroseeducation.com/resources-2022/year-8/autumn-block-2-multiplicative-change/2.-Year-8-Proportional-Reasoning-Multiplicative-Change-1.pdf **Multiplying & dividing fractions** https://assets.whiteroseeducation.com/resources-2022/year-8/autumn-block-3-multiplying-and-dividing-fractions/3.-Year-8-Proportional-Reasoning-Multiplying-and-Dividing-Fractions-1.pdf	**Working in the Cartesian plane** https://assets.whiteroseeducation.com/resources-2022/year-8/autumn-block-4-working-in-the-cartesian-plane/4.-Year-8-Working-in-the-Cartesian-Plane.pdf **Representing data** https://assets.whiteroseeducation.com/resources-2022/year-8/autumn-block-5-representing-data/5.-Year-8-Representing-Data.pdf **Tables & probability** https://assets.whiteroseeducation.com/resources-2022/year-8/autumn-block-6-probability/6.-Year-8-Tables-and-Probability.pdf	**Brackets, equations & inequalities** https://assets.whiteroseeducation.com/resources-2022/year-8/spring-block-1-brackets-equations-inequalities/7.-Year-8-Brackets-Equations-and-Inequalities.pdf	**Sequences** https://assets.whiteroseeducation.com/resources-2022/year-8/spring-block-2-sequences/8.-Year-8-Sequences.pdf **Fractions & percentages** https://assets.whiteroseeducation.com/resources-2022/year-8/spring-block-4-fractions-percentages/10.-Year-8-Fractions-and-Percentages.pdf **Standard index form (week25-26)** https://assets.whiteroseeducation.com/resources-2022/year-8/spring-block-5-standard-form/11.%20Year%208%20-%20Standard-Index-Form.pdf	**Angles in parallel line& polygons** https://assets.whiteroseeducation.com/resources-2022/year-8/summer-block-1-angles-in-parallel-lines-and-polygons/13.-Year-8-Angles-in-parallel-lines-and-polygons.pdf **Area of trapezia & circles** https://assets.whiteroseeducation.com/resources-2022/year-8/summer-block-2-area-of-trapezia-circles/14.%20Year%208%20-%20Area%20of%20trapezia%20and%20circles.pdf	**The data handling cycle** https://assets.whiteroseeducation.com/resources-2022/year-8/summer-block-4-the-data-handling-cycle/16.-Year-8-The-Data-Handling-Cycle.pdf **Measures of location** https://assets.whiteroseeducation.com/resources-2022/year-8/summer-block-5-measures-of-location/17.-Year-8-Measures-of-Location.pdf

KS3 CURRICULUM		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 9	Topic/Scheme	**Reasoning with algebra** Forming & solving equations (week1-4) ***FROM THE WHITE ROSE YEAR 8 SCHEME:*** **Reasoning with data** Measures of location (week5-8)	**Reasoning with algebra** Straight line graphs (week 9-10) **Developing geometry** Area of trapezia & circles (week11-12) **Constructing in 2 & 3 dimensions** Three dimensional shapes (week 13-15)	**Constructing in 2 & 3 dimensions** Constructions & congruency(week 16-19) **Reasoning with numbers** Numbers (week20-21)	**Reasoning with number** Using percentages (week22-23) Maths & money (week24-25) **Reasoning with geometry** Rotation and translation (week26-28)	**Reasoning with geometry** Pythagoras' theorem (week 29-32)	**Reasoning with proportion** Enlargement & similarity (week33-34) Solving ratio & proportion problems (week35-36) Rates (week 37-39)
	Reading Material	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost
	Key Vocabulary	**Forming & solving equations (week1-4)** Equation, Inequality, Greater than, >, Less than, <, Solution, Unknown, Inverse, Solve, Inverse, Expand, Reverse, Equal, Balance, Coefficient, Check, Test, Substitute, Form, Variable, Subject, Formula, Subject, Rearrange, Make the subject of, Inverse operation, Square, Square root, Root **Measures of location (week5-8)** Average, Mean, Median, Mode, Modal value, Total, Frequency, Represent, Subtotal, Mode, Estimate, Midpoint,	**Straight line graphs (week9-10)** Parallel, Horizontal, Vertical, Straight line, Axis, Equation, Graph, Intercept, Linear, Straight line, Table of values, Function, Equation, Gradient, Slope, Steep, Positive, Negative, Intercept, Coordinate, y-intercept, Rearrange, Interpret, Direct proportion, Table of values, Real-life, Graphs, Inverse Proportion, Curve, Asymptote, Negative reciprocal **Area of trapezia & circles (week11-12)**	**Constructions & congruency (week 16-19)** Acute, Obtuse, Reflex, Right angle, Estimate, Protractor, Scale, Ratio, Multiplier, Estimate, Conversion, mm, cm, m, km, Locus, Path, Equidistant, Construction lines, Point, Stadium, Vertex, Discorectangle, Arc, Perpendicular, Bisector, Construction lines, Line Segment, SSS, SAS, ASA, Net, Prism, Equilateral, Scalene, Isosceles, Congruent, Identical, Invariant, Reflection, Included angle, Unique, Reflection, Corresponding side, Side-Side-Side, Side-	**Using percentages (week22-23)** Fraction, Decimal, Percentage, Convert, Equivalent, Increase, Decrease, Reduce, Multiplier, Profit, Loss, Original, Change, Reverse, Related facts, Original, Change, Bar model, Repeated, Depreciate, Power, Index, Exponent **Maths & money (week24-25)** Total, Debit, Credit, Balance, Expense, Bill, Percentage, Interest, Annual, Deposit, Principal, Rate, Compound, Interest, Multiplier, Per annum, Tax, Rate, Value Added, VAT, Original,	**Pythagoras' theorem (week 29-32)** Square, Square root, Integer, Significant figures, Decimal places, Hypotenuse, Right-angled triangle, Opposite, Adjacent, Sum, Square root, Origin, Quadrant, Negative, Line segment, Hypotenuse, Gradient, 2-D, 3-D, Cuboid, Diagonal	**Enlargement & similarity (week33-34)** Similar, Ratio, Enlargement, Scale factor, Corresponding, Object, Image, Integer, Positive, Centre, Distance, Position, Fraction, Greater than 1, Between 0 and 1, Inverted, Negative, Rotation, Orientation, Similar, Corresponding, Opposite, Adjacent, Hypotenuse, Angle, Right-angle **Solving ratio & proportion problems (week35-36)** Relationship, Ratio, Multiplier, Constant, Scale factor, Graph, Relationship, Variable, Linear, Non-linear,

		Modal Class, Outlier, Range, Consistent	Formula, Area, Triangle, Square, Parallelogram, Rhombus, Trapezium, Trapezia, Parallel, Perpendicular height, Formula, Compound, Component shapes, Parallelogram, Trapezium, Perpendicular, Sector, Rectangle, Estimate, Infinity, Radius, Diameter, π, Approximately, in terms of π, Decimal place, Calculate, Substitute, Units, Significant figures (SF), Compound, Component shapes **Three dimensional shapes (week13-15)** Dimensions, Cube, Cuboid, Cylinder, Cone, Sphere, Pyramid, Tetrahedron, Face, Edge, Vertex, Polygon, Prism, Cross-section, Net, Dimensions, Area, Plan, Front, Side Elevation, Perspective, Isometric, Solid, Area, Perpendicular height, Units, Formulae, Compound, Dimensions, Open, Closed, Net, Surface Area, Circumference, π, Curved surface area, Cylinder, Height, cm^3, Width, Length, Vertex, Sphere, Base, Prism,	angle-side, Angle-side-angle, Right angle-hypotenuse-side **Numbers(week20-21)** Integer, Real, Rational, Irrational, Root, Square root, Cube root, Surd, Simplify, Positive, Negative, Directed, Inverse, Square, Cube, Operation, Integer, Quotient, Product, Sum, Difference, Decimal, Remainder, Adjust, Compensate, Operation, Factor, Multiple, Common factor, Prime, HCF, LCM, Product of primes, Fraction, Numerator, Denominator, Mixed number, Common denominator, Improper fraction, Improper, Standard form, Power, Index, Exponent, Million, Billion	Income, Salary, Wage, Annual, Exemption, Overtime, Currency, Convert, Rate, Exchange, Value, Cost, Proportion, Unit, Unitary **Rotation and translation (week26-28)** Shape, Rotational, Symmetry, Order, Regular, Irregular, Line, Mirror, Rotation, Direction, Invariant, Clockwise, Object, Image, Centre, Anti-clockwise, Direction, Variant, Translate, Vector, Horizontal, Vertical, Move, Vertex, Rotate, Centre, Direction, Reflect, Line, Vector, Single		Gradient, Inverse, Variables, Product, Proportional, Non-linear, Divide, Share, Equal parts, Factor, Equivalent, More than, Less than, Unit cost, Multiple, Direct proportion, Equation, Fraction, Equal parts **Rates (week37-39)** Speed, Distance, Time, Per, Hours, Minutes, Convert, Rounding, Speed, distance, time, Accuracy, Average, Gradient, Speed, Axes, Origin, Density, Mass, Volume, Per, Units, Substitute, Rearrange, Constant rate, Straight line, Curve, Flow rate, Prism, Volume, Conversions, Rate of change, Imperial, Metric, Convert, Units, Double number line

			Commutative, Constant, Cross-section, Area of face				
	Link to Scheme (Subject Curriculum Plan or Schemes of v Learning)	**Forming & solving equations** https://assets.whiteroseeducation.com/resources-2022/year-9/autumn-block-2-forming-and-solving-equations/2-Year-9-Forming-and-solving-equations.pdf **Measures of location** https://assets.whiteroseeducation.com/resources-2022/year-8/summer-block-5-measures-of-location/17.-Year-8-Measures-of-Location.pdf	**Straight line graphs** https://assets.whiteroseeducation.com/resources-2022/year-9/autumn-block-1-straight-line-graphs/1.-Year-9-Straight-Line-Graphs.pdf **Area of trapezia & circles** https://assets.whiteroseeducation.com/resources-2022/year-8/summer-block-2-area-of-trapezia-circles/14.%20Year%208%20-%20Area%20of%20trapezia%20and%20circles.pdf **Three dimensional shapes** https://assets.whiteroseeducation.com/resources-2022/year-9/autumn-block-4-three-dimensional-shapes/4.-Year-9-Three-dimensional-shapes.pdf	**Constructions and congruency** https://assets.whiteroseeducation.com/resources-2022/year-9/autumn-block-5-constructions-and-congruency/5.-Year-9-Constructions-and-congruency.pdf **Numbers** https://assets.whiteroseeducation.com/resources-2022/year-9/spring-block-1-numbers/6.%20Year%209%20-%20Numbers%20v2.pdf	**Using percentages** https://assets.whiteroseeducation.com/resources-2022/year-9/spring-block-2-using-percentages/7.-Year-9-Using-Percentages.pdf **Maths & money** https://assets.whiteroseeducation.com/resources-2022/year-9/spring-block-3-maths-and-money/8.-Year-9-Maths-and-Money.pdf **Rotation and translation** https://assets.whiteroseeducation.com/resources-2022/year-9/spring-block-5-rotation-and-translation/10.-Year-9-Rotation-and-translation.pdf	**Pythagoras' theorem** https://assets.whiteroseeducation.com/resources-2022/year-9/spring-block-6-pythagoras-theorem/11.-Year-9-Pythagoras-Theorem.pdf	**Enlargement & similarity** https://assets.whiteroseeducation.com/resources-2022/year-9/summer-block-1-enlargement-and-similarity/12.-Year-9-Enlargement-and-Similarity.pdf **Solving ratio & proportion problems** https://assets.whiteroseeducation.com/resources-2022/year-9/summer-block-2-solving-ratio-and-proportion-problems/13.-Year-9-Ratio-and-proportion.pdf **Rates** https://assets.whiteroseeducation.com/resources-2022/year-9/summer-block-3-rates/14.%20Year%209%20-%20Rates.pdf

KS4 CURRICULUM		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10	Topic/Scheme	**Similarity** Congruence, similarity & enlargement (week1-3) Trigonometry (week4-6) **Developing algebra** Representing solutions of equations & inequalities (week7-8)	**Developing algebra** Simultaneous equations (week9-10) ***FROM THE WHITE ROSE YEAR 8 SCHEME:*** **Developing geometry** Angles in parallel lines & polygons (week 11) ***WHITE ROSE YEAR 10 SCHEME:*** **Geometry** Angles & bearings (week12-13) **Geometry** Working with circles (week14-15)	**Proportions & proportional change** Ratios & fractions (week16-18) Probability (week19-20)	**Delving into data** Collecting, representing & interpreting data (week21-25)	**Proportions & proportional change** Percentages & Interest (week27-28) **Using number** Non-calculator methods (week29-32)	***FROM THE WHITE ROSE YEAR 9 SCHEME:*** **Reasoning with proportion** Rates (week33-34) **Using number** Indices & roots (week35-36) **Using number** Types of number and sequences (week37-39)
	Reading Material	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost	White Rose Go teach math Mathspad Sparx Corbett math Dr Frost
	Key Vocabulary	**Congruence, similarity & enlargement (week 1-3)** Enlarge, Enlargement, Scale factor, Ratio, Origin, Object, Image, Fractional scale factor, Centre of enlargement, Negative scale factor, Reflection, Ratio, Similar, Proportion, Correspond, Parallel, Corresponding, Alternate, Co-interior, Corresponding angles, Alternate angles, Length of scale factor, Area of scale factor, Image, Volume scale factor, Congruent, In proportion, Side-side-side, Angle-	**Simultaneous equations (week9-10)** Solution, Substitute, Equation, Variable, Verify, Solve, Variable, Unknown, Inverse, Substitute, Substitution, Subject of the formula, Rearrange, Simultaneous equations, Intersect, Coordinate, Meet, Subtract, Negative, Eliminate, Variable, Expression, Eliminate, Negative, Solve, Equivalent, Coefficient, Multiplier, Lowest Common Multiple, LCM, Multiplier, Formulate, Context, Quadratic, Curve,	**Ratios & fractions (week16-18)** Ratio, Simplest form, Convert, Unit, Equivalent, Share, More than, Less than, Part, Whole, Proportion, Fraction, Compare, Direct proportion, Gradient, Equation, Origin, y=mx (+c), Double number line, Exchange rate, Scale, Map, Represent, Bearing, For every….., There are……., Integer, Non-integer, Best value, Unit cost, Combine, LCM, , Variable,	**Collecting, representing & interpreting data (week21-25)** Population, Sample, Representative, Biased, Random, Population, Proportion, Stratified, Primary, Secondary, Source, Data, Questionnaire, Experiment, Frequency polygon, Midpoint, Endpoint, Frequency, Class, Interval, Table, Row, Column, Total, Difference, Line chart, Bar chart, Frequency, Difference, Dual,	**Percentages & Interest (week 27-28**) Fraction, Decimal, Percentage, Equivalent, Convert, Multiplier, Increase, Decrease, Reduce, Interest, Convert, Multiplier, Numerator, Denominator, Express, Simple, Compound, Interest, Repeated, Power, Index, Exponent, Change, Depreciate, Decimal, Percentage, Reverse, Original, Growth, Decay, Compound,	**Rates (week33-34)** Speed, Distance, Time, Per, Hours, Minutes, Convert, Rounding, Accuracy, Average, Gradient, Axes, Origin, Density, Mass, Volume, Units, Substitute, Rearrange, Constant rate, Straight line, Curve, Flow rate, Prism, Volume, Conversions, Per, Rate of change, Imperial, Metric, Double number line **Indices & roots (week35-36)**

		side-angle, Side-angle-side, Right angle-hypotenuse-side, SSS, ASA, SAS, RHS, Prove, Conditions of congruence **Trigonometry (week4-6)** Enlarge, Scale factor, Ratio, Corresponding, Constant, Adjacent, Opposite, Hypotenuse, Right angle, Tangent, Hypotenuse, Formula, Rearrange, Subject, Sine, Cosine, Complement, Subject of formula, Angle, Obtuse, Acute, Inverse, sin, cos, tan, $\sin^{-1}x$, $\cos^{-1}x$, $\tan^{-1}x$, Square, Square root, Right angle, Pythagoras' Theorem, Surds, Exact value, Simplifying, Infinity, Approaching, Increasing, Decreasing, Limit, Prism, Plane, Slope, Isosceles, Midpoint, Diagonal, Square-based right pyramid, Area, Perpendicular, Expression, Formula, Non-right-angled, Substitute, Equation, Formula, Rearrange, Subject of the formula, Inverse, Cosine rule, Sine rule, Inverse, Segment, Included angle **Representing solutions of equations & inequalities (week7-8)**	Linear, Parabola, Coordinate, Square, Intersection, Linear, Non-linear, Factorise, Constant, Simplest Form, In terms of **Angles in parallel lines & polygons (week 11)** Adjacent, Angles at a point, Vertically Opposite, Straight, Acute, Obtuse, Reflex, Right angle, Parallel, Transversal, Alternate, Corresponding, Angle, Line, Supplementary, Co-interior, Points **Angles & bearings (week12-13)** Compass, Point, Angle, Turn, Three letter notation, Enlarge, Scale factor, Ratio, Protractor, Convert, Similar, Three-figure, North line, Clockwise, Bearing, Bearing of, Bearing from, Three figure bearing, Due East of, Due West of, North line, Clockwise, Scale, Ratio, Bearing, Construct, Parallel, Alternate, Corresponding, Co-interior, North line, Due South, Due North, Trigonometry, $\sin\theta$, $\cos\theta$, $\tan\theta$, Perpendicular, Sine Rule, Cosine Rule, Opposite, Included angle **Working with circles (week14-15)** Radius, Diameter, Chord, Centre, Tangent, Arc,	Unknown, Express, Enlarge, Length scale factor, Area scale factor, Length Ratio, Area Ratio, Similar, Share **Probability (week19-20)** Numerator, Denominator, Exact value, LCM, Simplest form, Equally likely, Outcome, Event, Denominator, Numerator, Complement, Venn diagram, Intersect, Union, Relative frequency, Estimate, Expectation, Expected value, Two-way tables, Frequency trees, Universal set, Sample space, Systematic, Array, Independent events tree diagram, Product, At least one, Dependent events, Independent events, Tree diagram, Conditional probability, Given, Show, Given, Intersection, Set, Venn	Multiple, Composite, Total, Angle, Sector, Radius, Subtend, Scale, Bias, Misleading, Broken axis, Histogram, Area, Frequency density, Class interval, Class width, Distribution, Mean, Median, Mode, Representative, Outlier, Average, Modal class, Subtotal, Estimate, Time Series, Quarter, Trend, Stem, Leaf, Range, Cumulative, Frequency, Graph, Polygon, End point, Class, Upper Quartile, Lower Quartile, Interquartile range, Range, Outlier, Spread, Consistent, Variable, Relationship, Linear, Positive correlation, Negative correlation, Line of best fit, Origin, Correlation, Interpolate, Interpolation, Extrapolate	Repeat, Iterate, Subscript, Term, Geometric, u_n, u_{n+1}, Ratio **Non-calculator methods (week29-32)** Add, Subtract, Balance, Adjust, Credit, Debit, Profit, Loss, Multiply, Divide, Adjust, Perimeter, Volume, Area, Fraction, Numerator, Denominator, Reciprocal, Mixed number, Improper fraction, Exact, In terms of, Square root, Cube root, Sine, Cosine, Tangent, Integer, Decimal, Terminating, Recurring, Infinite, Root, Surd, Square root, Cube root, Simplify, Factors, Surd, Simplify, Rationalise, Denominator, Degree of Accuracy, Decimal place, Round, Approximate, Significant figure, Limit, Error interval, Upper bound, Lower bound, Truncate, Round, Correct to….., Maximum, Minimum, Sum, Difference, Product, Quotient, Compensate, Factorise, VAT, Standing charge, Allowance, Tax, Force,	Square, Cube, Root, Prime, Prime factorisation, Integer, Root, Power, Index, Indices, Fourth root, Estimate, Exponent, Million, Billion, Base, Negative, Power, Simplify, Unit-fraction, Non-unit fraction, Standard form, Power, SCI, EXP, Scientific Notation **Types of number and sequences (week37-39)** Integer, Factor, Multiple. Area, Factorise, Prime Factor, Prime factor decomposition, Factorise, Product, Express, Index form, Venn diagram, Intersection, Union, Highest Common Factor, HCF, Lowest Common Multiple, LCM, Prime Factors, Product, Intersection, Arithmetic, Common difference, n^{th} term, Geometric, Common ratio, Term-to-term, Square Triangular, Cube, Predict, Oscillate, Fibonacci, Simplest form, Common ratio, Common difference, Arithmetic, Geometric, Conjectures, Counter

		Variable, Solve, Solution, Equation, Expression, Solve, Inverse, Balance, Inequality, Inverse, Solution set, Greater than, >, Less than, <, Equal, Number line, Set notation, The solution set is x such that……., Solution set, Union, Gradient, Positive, Negative, Linear, y-intercept, Coordinate, Plot, Set equal, Intersect, Solve graphically, Solve algebraically, Inequality, Satisfy, Region, Dashed line, Solid line, Test point, Is equal to, Value, Unknown, Satisfy, Number line, Balanced, Quadratic, Roots, Factorise, Brackets, Intercept, Factorise, Sketch, x-axis, y-axis	Sector, Segment, Circumference, Area, Fraction, Minor, Major, Proportion, Centre, Angle, Isosceles, Angle, Isosceles, Semicircle, Right angle, Pythagoras, Subtend, Quadrilateral, Cyclic, Vertices, Opposite, Cylinder, Cone, In terms of π, Perpendicular height, Base, Frustum, Sphere, Hemisphere, Centre, Surface Area, Curved Surface, Base, Slant height, Scale Factor, Ratio, Proportion, Square, Cube, Root			Pressure, Area, Density, Mass, Volume	examples, Disprove, Rule, Term-to-term, Position-to-term, Linear, Non-linear, Coefficient, Term, Difference, Quadratic, Coefficient, Show
	Link to Scheme (Subject Curriculum Plan or Schemes of Learning)	**Congruence, similarity & enlargement** https://assets.whiteroseeducation.com/resources-2022/year-10/autumn-block-1-congruence-similarity-and-enlargement/1.-Year-10-Similarity-Congruence-Similarity-and-Enlargment.pdf **Trigonometry** https://assets.whiteroseeducation.com/resources-2022/year-10/autumn-block-2-trigonometry/2.-	**Simultaneous equations** https://assets.whiteroseeducation.com/resources-2022/year-10/autumn-block-4-simultaneous-equations/wrm-y10-aut-b4-%20simultaneous-equations.pdf **Angles & bearings (week12-13)** https://assets.whiteroseeducation.com/resources-2022/year-10/spring-block-1-angles-and-bearings/5.-Year-10-Angles-and-Bearings.pdf	**Ratios & fractions** https://assets.whiteroseeducation.com/resources-2022/year-10/spring-block-4-ratio-and-fractions/8.-Year-10-Ratio-and-Fractions.pdf **Probability** https://assets.whiteroseeducation.com/resources-2022/year-10/spring-block-6-probability/year-10-probability.pdf	**Collecting, representing & interpreting data** https://assets.whiteroseeducation.com/resources-2022/year-10/summer-block-1-collecting-representing-and-interpreting-data/11.%20Year%2010%20-%20Delving%20into%20Data.pdf	**Percentages & Interest** https://assets.whiteroseeducation.com/resources-2022/year-10/spring-block-5-percentages-and-interest/9.%20Year%2010%20-%20Percentages%20&%20Interest.pdf **Non-calculator methods (week29-32)** https://assets.whiteroseeducation.com/resources-2022/year-10/summer-block-2-non-calculator-	**Rates** https://assets.whiteroseeducation.com/resources-2022/year-9/summer-block-3-rates/14.%20Year%209%20-%20Rates.pdf **Indices & roots** https://assets.whiteroseeducation.com/resources-2022/year-10/summer-block-4-indices-and-roots/14.-Year-10-Indices-Roots.pdf **Types of number and sequences**

		Year-10-Trigonometry.pdf Representing solutions of equations & inequalities https://assets.whiteroseeducation.com/resources-2022/year-10/autumn-block-3-equations-and-inqualities/3.-Year-10-Equations-and-Inequalities.pdf	Working with circles (week14-15) https://assets.whiteroseeducation.com/resources-2022/year-10/spring-block-2-working-with-circles/6.-Year-10-Working-with-Circles.pdf			methods/wrm-y10-summer-b2-non-calculator-methods-sol.pdf	https://assets.whiteroseeducation.com/resources-2022/year-10/summer-block-3-types-of-number-and-sequences/13.-Year-10-Types-of-Number-and-Sequences.pdf

KS4 CURRICULUM		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 11	Topic/Scheme						
	Reading Material						
	Key Vocabulary						
	Link to Scheme (Subject Curriculum Plan or Schemes of Learning)						