

	TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6
<b>KEY TOPIC/VALUE</b>						
Year 5/6	<p><b>Numeracy:</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i></p> <p>Mental mathematics Place value Addition, subtraction, multiplication and division strategies, written and mental mathematics</p> <p><b>Time:</b> <i>Strands: Shape, space and measure &amp; using and applying mathematics</i></p> <p>Telling time and reading timetables</p> <p><b>Fractions</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i></p> <p>What is a fraction Understanding the value of fractions</p>	<p><b>Fractions</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i></p> <p>What is a fraction Understanding the value of fractions Equivalent fractions Fraction of an amount</p> <p><b>Numeracy:</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i></p> <p>Mental mathematics Place value Addition, subtraction, multiplication and division strategies, written and mental mathematics</p> <p><b>Shapes</b> <i>Strands: Shape, space and measure &amp; using</i></p>	<p><b>Numeracy:</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i></p> <p>Decimal place value, Multiply by powers of 10, factors and multiples Addition and subtraction strategies</p> <p><b>Time:</b> <i>Strands: Shape, space and measure &amp; using and applying mathematics</i></p> <p>Exploring the 24 hour clock</p> <p><b>Numeracy:</b> <i>Strands: Number and algebra &amp;</i></p>	<p><b>Numeracy:</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i></p> <p>multiplication and division strategies, written and mental mathematics</p> <p><b>Measure:</b> <i>Strands: Shape, space and measure &amp; using and applying mathematics</i></p> <p>Exploring perimeter area and volume</p> <p><b>Shapes</b> <i>Strands: Shape, space and measure &amp; using and applying mathematics</i></p>	<p><b>Numeracy:</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i></p> <p>Exploring large numbers, counting in steps, using negative numbers in context, calculation with money, equivalent fractions and solving problems with fractions, mental strategies for division</p>	<p><b>Numeracy:</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i></p> <p>Exploring the connection between fractions and decimals, understanding decimal place value, multiplying fractions</p> <p><b>Measure:</b> <i>Strands: Shape, space and measure &amp; using and applying mathematics</i></p> <p>Converting units of measure, investigating imperial measures</p> <p><b>Numeracy:</b> <i>Strands: Number and algebra &amp; using</i></p>

YEAR 6/7 A	Equivalent fractions Fraction of an amount	<b>and applying mathematics</b>  Explore 2-D and 3-D shapes	<b>using and applying mathematics</b>  Addition and subtraction strategies	Exploring polygons, co-ordinates and angles	<b>and applying mathematics</b>  Decimal place value, including hundredths and links to percentages Addition, subtraction, multiplication and division strategies, written and mental mathematics  <b>Data Handling: Strands: Statistics &amp; using and applying mathematics</b>  Data recording and line graphs
	<b>Numeracy:</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i>  Mental mathematics (strategies and developing fluency, accuracy and use of order of operations)	<b>Measures:</b> <i>Strands: Shape, space and measure &amp; using and applying mathematics</i>  Units of measurement and what they measure Converting between metric units of measurement	<b>Money</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i> Recognising money Value of money Using money	<b>Angles</b> <i>Strands: Shape, space and measure &amp; using and applying mathematics</i>  What do they measure How are they measured Estimating angles	<b>Fractions</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i>  What is a fraction Understanding the value of fractions Using fractions

		Perimeter of 2D shapes		Types of angle		Analysing Data (Mean, median, mode, range)
<b>YEAR 6/7 B</b>	<p><b>Numeracy</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i></p> <p>Types of numbers and number vocabulary (factors, multiples, HCF, LCM, squares, cubes, primes etc. Difference, product, sum etc.)</p>	<p><b>Shape</b> <i>Strands: Shape, space and measure &amp; using and applying mathematics</i></p> <p>Properties of shapes Area of 2D shapes</p>	<p><b>Decimals</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i></p> <p>What is a decimal Where to decimals fit on a number line Rounding Calculations with decimals</p>	<p><b>Time</b> <i>Strands: Shape, space and measure &amp; using and applying mathematics</i></p> <p>Analogue time 12 hour &amp; 24 hour clock time Timetables</p>	<p><b>Directed Numbers</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i></p> <p>What do negative values mean Calculations with negative numbers</p>	<p><b>Problem solving</b> <i>Strand: Using and applying mathematics</i></p> <p>Word problems Problem solving strategies Maths in real life</p>
<b>YEAR 7/8 A</b>	<p><b>Numeracy &amp; Sequences</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i></p> <p>Mental mathematics Number vocabulary Calculating the next value in a linear sequence Describing a linear sequence in words</p>	<p><b>Perimeter, Area &amp; Volume</b> <i>Strands: Shape, space and measure &amp; using and applying mathematics</i></p> <p>Definitions Formulae Calculations Units</p>	<p><b>Ratio and Proportion</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i></p> <p>What is a ratio Solving problems using proportion and ratio</p>	<p><b>Angles</b> <i>Strands: Shape, space and measure &amp; using and applying mathematics</i></p> <p>Types of angle Angles along a line and round a point Angles at parallel lines Angles in polygons</p>	<p><b>Percentages</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i></p> <p>What does percentage mean Calculating percentages of amounts Percentage increase and decrease</p>	<p><b>Probability</b> <i>Strands: Statistics &amp; using and applying mathematics</i></p> <p>The probability scale (words and numerical values) Listing outcomes Calculating probabilities of single events</p>

						Sample space diagrams
YEAR 7/8 B	<p><b>Order of operations</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i></p> <p>Understand indices Review mental mathematics strategies and calculations Know and be able to use the order of operations (BIDMAS)</p>	<p><b>Angles and Constructions</b> <i>Strands: Shape, space and measure &amp; using and applying mathematics</i></p> <p>Types of angle Angles along a line and round a point Angles at parallel lines Angles in polygons Constructing angles Constructing triangles</p>	<p><b>Fractions, Decimals and Percentages</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i></p> <p>What is a fraction, what is a decimal, what is a percentage Converting between equivalent fractions, decimals and percentages Calculations with fractions, decimals and percentages</p>	<p><b>Time</b> <i>Strands: Shape, space and measure &amp; using and applying mathematics</i></p> <p>Analogue time 12 hour &amp; 24 hour clock time Timetables Converting between units of measuring time Problem solving involving period of time</p>	<p><b>Problem solving</b> <i>Strand: Using and applying mathematics</i></p> <p>Word problems Problem solving strategies Maths in real life</p>	<p><b>Data and statistics</b> <i>Strands: Statistics &amp; using and applying mathematics</i></p> <p>Types of data (discrete, continuous, numerical, categorical) Grouping data Displaying data (pie charts, histograms, cumulative frequency tables) Analysing data (mean, median, mode and range, including from a table)</p>
	<p><b>Algebra</b> <i>Strand: Number and algebra</i></p> <p>What is algebra?</p>	<p><b>Angles and Constructions</b> <i>Strands: Shape, space and measure &amp; using and applying mathematics</i></p>	<p><b>Fractions, Decimals and Percentages</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i></p>	<p><b>Perimeter, Area &amp; Volume</b> <i>Strands: Shape, space and measure &amp; using and applying mathematics</i></p>	<p><b>Data and statistics</b> <i>Strands: Statistics &amp; using and applying mathematics</i></p> <p>Types of data (discrete,</p>	<p><b>Probability</b> <i>Strands: Statistics &amp; using and applying mathematics</i></p> <p>Calculating probabilities of</p>

	Understanding and manipulating expressions Substituting Inverse functions Solving linear equations	Angles along a line and round a point Angles at parallel lines Angles in polygons Constructing angles Constructing triangles Loci	Review converting between equivalent fractions, decimals and percentages Calculating percentage increase/decrease, original amounts and interest	Calculations and problem solving including perimeter, area and volume	continuous, numerical, categorical) Grouping data Displaying data (pie charts, histograms, cumulative frequency tables) Analysing data (mean, median, mode and range, including from a table)	single and mutually exclusive events Calculating probabilities from sample space diagrams, tree diagrams and Venn diagrams
YEAR 8/9 B	<b>Numeracy</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i>  Focus on skills required for non-calculator sections of Functional Skills and GCSE syllabus	<b>Shape and space</b> <i>Strands: Shape, space and measure &amp; using and applying mathematics</i>  Review of all space and shape work covered Focus on problem solving relating to this Extend to include Pythagoras Theorem	<b>Proportion, Ratio and Rates</b> <i>Strands: Number and algebra &amp; using and applying mathematics</i>  Review using proportion and ratio Understanding and using rates	<b>Algebra</b> <i>Strand: Number and algebra</i>  Review of algebra previously covered Rearranging expressions and formulae Solving simultaneous equations	<b>Data and statistics</b> <i>Strands: Statistics &amp; using and applying mathematics</i>  Review all data and statistics work covered and apply to solve Functional Skills and GCSE style questions	<b>Probability</b> <i>Strands: Statistics &amp; using and applying mathematics</i>  Review of all probability work covered in previous years
GCSE Year 1 (Year 9 or 10)	<b>Data and statistics</b> What is sampling Sampling techniques Review of collecting, displaying and analysing data from KS3	<b>Perimeter, Area &amp; Volume</b> Perimeter & areas of 2D shapes including circles and Pythagoras Theorem Volume of prisms	<b>Fractions, Decimals and Percentages</b> Conversions between fractions, decimals and percentages	<b>Probability Ratio and Proportion</b> Problem solving including ratio and proportion Similar shapes	<b>Algebra</b> Manipulating expressions and solving linear equations and inequalities	<b>Algebra</b> Understanding and using $y=mx+c$ Graphing inequalities  <b>Shape and transformations</b>

		Volume of spheres, cones and pyramids Units and unit conversions	Calculations with fractions decimals and percentages including percentage change and interest Rational and irrational numbers			Translation, reflection, rotation and enlargement
<b>YEAR 10 Entry Level in a year</b>	<p><b>Properties of numbers</b> Reading, writing and ordering numbers Understanding the place value Rounding</p> <p><b>Geometry</b> Naming shapes Describing position and turn Symmetry</p>	<p><b>Ratio &amp; Fractions</b> Parts of a whole Counting in fractional increments</p> <p><b>Data &amp; Statistics</b> Collecting and displaying data</p>	<p><b>The four operations</b> Fluency with addition, subtraction, multiplication and division Mental maths strategies</p> <p><b>The calendar and time</b> Converting between time periods Telling time Understanding and using time and the calendar</p>	<p><b>Measures</b> Units of measure of length, capacity and mass Measuring, estimating and problem solving</p> <p><b>Money</b> Understanding and using money</p>	<p>Complete in class tests and classwork for submission in Early/mid May</p> <p><b>Begin FS Level 1: Money</b> Calculator and non-calculator calculations involving money Problem solving and word problems based in real life scenarios</p>	<p><b>Money</b> Calculator and non-calculator calculations involving money Problem solving and word problems based in real life scenarios</p> <p><b>Time</b> Reading timetables Solving problems involving calculations with periods of time</p>
<b>YEAR 10 Entry Level in 2 years – year 1</b>	<p><b>Properties of numbers</b> Reading, writing and ordering numbers Understanding the place value</p>	<p><b>Geometry</b> Naming shapes Describing position and turn Symmetry</p>	<p><b>The four operations</b> Fluency with addition, subtraction,</p>	<p><b>Money</b> Understanding and using money</p>	<p><b>Measures</b> Units of measure of length, capacity and mass</p>	<p><b>Data &amp; Statistics</b> Collecting and displaying data</p>

YEAR 10 Functional Skills Level 1	Rounding		multiplication and division Mental maths strategies		Measuring, estimating and problem solving	
	<b>Data and statistics Numeracy</b> Working with discrete data (charts and graphs, mean & range) Place value Multiply and divide by 10,100, 1000 Non-calculator methods for the 4 basic operations Rounding Squaring The order of operations	<b>Geometry</b> Perimeter & area of rectangles and shapes made from rectangles Converting between units of length Volumes of cubes and cuboids Understanding and using different views Basic angle facts Compass point	<b>Fractions, Decimals and Percentages</b> Converting units of money Calculations with money Fractions and Percentages of amount Read, order & compare fractions The 4 operations with decimals	<b>Probability Ratio and Proportion</b> Using the probability scale Calculating simple probabilities of single events Using scales and scale drawing Understand and use basic ratio and proportion	<b>Application of skills &amp; practice of Functional Skills past papers</b> Past paper questions Problem solving questions Exam technique	<b>Functional Skills exam</b> <b>Algebra and Numeracy</b> Understanding and using formulae in words Substitution The order of operations Estimation
GCSE Year 2 (Year 10 or 11)	<b>Constructions and Loci</b> Construction of triangles, angles and bisectors  <b>Vectors</b> Understanding and using 2-D vector terminology	<b>Shape, Space &amp; Angles</b> Properties of 2D shapes including circles Complementary, supplementary and angles around a point Angles in polygons Angles at parallel lines Bearings Trigonometry (right angled triangles)	<b>Number</b> Standard form Review number terminology and prime factorization Laws of Indices Estimating square roots Review of fractions, decimals and percentages	<b>Algebra</b> Sequences Plotting and Factorising quadratics  <b>Proportionality</b> Review of graphing Graphing direct and indirect proportion	<b>Revision and GCSE Exams if Year 11</b>  <b>Review and practice of GCSE style questions if Year 10</b>	<b>If Year 10: Shape, Space and Angles</b> Trigonometry (non-right angled triangles)

YEAR 11 Entry Level in two years – year 2		<i>(Trigonometry all triangles if Year 11 and appropriate circle theorems if Year 11 and appropriate)</i>	<b>Data &amp; Statistics Review</b>				
	<b>The calendar and time</b> Converting between time periods Telling time Understanding and using time and the calendar	<b>Ratio &amp; Fractions</b> Parts of a whole Counting in fractional increments	<b>Review of Entry Level topics</b>	Complete in class tests and classwork for submission in Early/mid May  <b>Begin FS Level 1: Money</b> Calculator and non-calculator calculations involving money Problem solving and word problems based in real life scenarios	<b>Money</b> Calculator and non-calculator calculations involving money Problem solving and word problems based in real life scenarios  <b>Time</b> <b>Reading timetables</b> <b>Solving problems</b> involving calculations with periods of time		x
YEAR 11 Functional Skills Level 1	<b>Data and statistics Numeracy</b> Working with discrete data (charts and graphs, mean & range) Place value Multiply and divide by 10,100, 1000 Non-calculator methods for the 4 basic operations	<b>Geometry</b> Perimeter & area of rectangles and shapes made from rectangles Converting between units of length Volumes of cubes and cuboids Understanding and using different views Basic angle facts Compass point	<b>Probability, Fractions, Decimals and Percentages</b> Using the probability scale Calculating simple probabilities of single events Converting units of money	<b>Ratio and Proportion &amp; Algebra</b> Using scales and scale drawing Understand and use basic ratio and proportion Understanding and using formulae in words	<b>Application of skills &amp; practice of Functional Skills past papers</b>  <b>Exam</b>  Past paper questions Problem solving questions Exam technique		x



<p>YEAR 11 Functional Skills Level 2</p>	<p>Rounding Squaring The order of operations</p>		<p>Calculations with money Fractions and Percentages of amount Read, order &amp; compare fractions The 4 operations with decimals</p>			
	<p><b>Data and statistics</b> <b>Numeracy</b> Calculating mean, median, mode and range from discrete data Working with grouped data including estimating mean and median Working with scatter diagrams  Order of operations Calculations with decimals (focusing on money) and negative numbers</p>	<p><b>Geometry</b> Co-ordinates Nets Perimeter of circles Areas of triangles, circles and composite shapes Volume and surface area of prisms</p>	<p><b>Probability, Fractions, Decimals and Percentages</b> Calculate probabilities of combined events Given probabilities as fractions, decimals or percentages Convert between, order and compare fractions, decimals &amp; percentages Calculate fractions &amp; percentages of amounts Write one value as a fraction or percentage of another</p>	<p><b>Ratio and Proportion &amp; Algebra</b> Calculations using ratio as week as direct and indirect proportion  Evaluate expressions using substitution Use formulae to solve real life problems</p>	<p><b>Application of skills &amp; practice of Functional Skills past papers</b>  <b>Exam</b>  Past paper questions Problem solving questions Exam technique</p>	

GCSE Year 3	<b>Angles</b> Circle theorems Geometric proofs  <b>Shape and Space</b> Review and any higher level content not previously covered	<b>Algebra</b> Review and any higher level content not previously covered	<b>Number, Ratio and Proportion</b> Review and any higher level content not previously covered	<b>Revision</b>	<b>Revision and Exams</b>	x
	<b>Data and statistics</b> <b>Numeracy</b> Working with discrete data (charts and graphs, mean & range) Place value Multiply and divide by 10,100, 1000 Non-calculator methods for the 4 basic operations Rounding Squaring The order of operations	<b>Geometry</b> Perimeter & area of rectangles and shapes made from rectangles Converting between units of length Volumes of cubes and cuboids Understanding and using different views Basic angle facts Compass point	<b>Fractions, Decimals and Percentages</b> Converting units of money Calculations with money Fractions and Percentages of amount Read, order & compare fractions The 4 operations with decimals	<b>Probability Ratio and Proportion</b> Using the probability scale Calculating simple probabilities of single events Using scales and scale drawing Understand and use basic ratio and proportion	<b>Application of skills &amp; practice of Functional Skills past papers</b> Past paper questions Problem solving questions Exam technique	<b>Functional Skills exam</b>  <b>Algebra and Numeracy</b> Understanding and using formulae in words Substitution The order of operations Estimation
YEAR 12 Functional Skills Level 1	<b>Data and statistics</b> Calculating mean, median, mode and range from discrete data Working with grouped data including estimating mean and median Working with scatter diagrams	<b>Geometry</b> Co-ordinates Nets Perimeter of circles Areas of triangles, circles and composite shapes Volume and surface area of prisms	<b>Numeracy and Fractions, Decimals and Percentages</b> Order of operations Calculations with decimals (focusing on money) and	<b>Probability Ratio and Proportion</b> Calculate probabilities of combined events Given probabilities as fractions,	<b>Application of skills &amp; practice of Functional Skills past papers</b> Past paper questions Problem solving questions Exam technique	<b>Algebra Exam</b>  Evaluate expressions using substitution
YEAR 12 Functional Skills Level 2						

<p style="text-align: center;"><b>YEAR 13</b> Functional Skills Level 1 &amp; 2</p>			<p>negative numbers Calculate probabilities of combined events Given probabilities as fractions, decimals or percentages Convert between, order and compare fractions, decimals &amp; percentages Calculate fractions &amp; percentages of amounts Write one value as a fraction or percentage of another</p>	<p>decimals or percentages Calculations using ratio as well as direct and indirect proportion</p>		<p>Use formulae to solve real life problems</p>
	<p><b>Data and statistics Numeracy</b> Working with discrete data (charts and graphs, mean &amp; range) Place value Multiply and divide by 10,100, 1000 Non-calculator methods for the 4 basic operations Rounding Squaring</p>	<p><b>Geometry</b> Perimeter &amp; area of rectangles and shapes made from rectangles Converting between units of length Volumes of cubes and cuboids Understanding and using different views Basic angle facts Compass point Co-ordinates Nets</p>	<p><b>Probability, Fractions, Decimals and Percentages</b> Using the probability scale Calculating simple probabilities of single events Calculate probabilities of combined events Given probabilities as fractions,</p>	<p><b>Ratio and Proportion &amp; Algebra</b> Using scales and scale drawing Understand and use basic ratio and proportion Calculations using ratio as well as direct and indirect proportion</p>	<p><b>Application of skills &amp; practice of Functional Skills past papers</b> <b>Exam</b> Past paper questions Problem solving questions Exam technique</p>	

	<p>The order of operations  Calculating mean, median, mode and range from discrete data  Working with grouped data including estimating mean and median  Working with scatter diagrams  Calculations with decimals (focusing on money) and negative numbers</p>	<p>Perimeter of circles  Areas of triangles, circles and composite shapes  Volume and surface area of prisms</p>	<p>decimals or percentages  Converting units of money  Fractions and Percentages of amount  Read, order &amp; compare fractions  The 4 operations with decimals  Convert between, order and compare fractions, decimals &amp; percentages  Calculate fractions &amp; percentages of amounts  Write one value as a fraction or percentage of another</p>	<p>Understanding and using formulae in words  Evaluate expressions using substitution  Use formulae to solve real life problems</p>		
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