Mathematics Curriculum INTENT

Key Stage 3: Group 4 - Year 7

Autumn 1 Maths	Autumn 2 Maths	Spring 1 Maths	Spring 2 Maths	Summer 1 Maths	Summer 2 Maths
Group 4 - starter activities Time Tables **Objectives: Knowing and Using Number facts (NF)** DO NOW' Times Tables Identifying, Place value, Rounding and estimating, Prime numbers, factors and multiples,	**Group 4 -** starter activities Time Tables **Objectives: Knowing and Using Number facts (NF)** Ratio and proportion, Decimals, Operations (calculations/sums), Fractions, Percentages	**Group 4 -** starter activities Time Tables Patterns and sequences, Measurement, Trigonometry, Angles, Shapes, Time	**Group 4 -** starter activities Patterns and sequence Reflection, symmetry perimeter, Area, positive and negative numbers, Fractions	**Group 4 -** starter activities Patterns and sequence Collecting, recording and representing data, Averages Probability,	**Group 4 -** starter activities Patterns and sequence **Revision** Ratio and proportion, Decimals, Operations, Trigonometry, Angles, Shapes, Time, positive and negative numbers, Fractions
Your money matters-financial curriculum	**Your money matters-financial curriculum**	**Your money matters-financial curriculum**	**Your money matters-financial curriculum**	**Your money matters-financial curriculum**	**Your money matters-financial curriculum**

SMSC / FBVs: Developing deep thinking and questioning the way in which the world works promotes the spiritual growth of students. In mathematics lesson, we strive through teaching to encourage the pupils to accept responsibility for the behaviour and respect for others within the lessons and teach the students to understand the consequences of their actions on themselves and others around them. Problem solving skills and teamwork are fundamental to Mathematics, through creative thinking, discussion, explaining and presenting ideas. Students are always encouraged to develop their Mathematical reasoning skills, communicating with others and explaining concepts to each other. Mathematics is a universal language with a myriad of cultural inputs throughout the ages. We also explore the Mathematics applied in different cultures such as Rangoli patterns, symmetry, etc.

Literacy: Understanding and applying Keywords, Written evaluation, peer/self-assessment, Oral communication – sharing and presenting ideas, Word sort- make connections between various words and mathematical operations.

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Mathematics Curriculum INTENT

Key Stage 3: Group 3 - Year 8

Autumn 1 Maths	Autumn 2 Maths	Spring 1 Maths	Spring 2 Maths	Summer 1 Maths	Summer 2 Maths
Group 3 - starter activity Time Tables **Objectives: Knowing and Using Number facts (NF)** 'DO NOW' Times Tables Identifying mathematical Signs, ordering rounding, Identifying Odd, Even Prime Numbers, Writing, numbers in words, Place Value, Finding Multiples of numbers, Time Units (Measuring the Time: seconds, minutes, hours, days, week years, decade, centuries and millennium	**Group 3 -** starter activity Time Tables **Objectives: Knowing and Using Number facts (NF)** DO NOW' Times Tables, Identifying mathematical Signs, rounding, Identifying Odd, Even Prime Numbers, Writing ,numbers in words, Place Value, Finding Multiples of numbers, Time Units (Measuring the Time: seconds, minutes, hours, days, week years, decade, Temperature, centuries and millennium Addition, Subtraction, Money, Time	**Group 3 -** starter activity Time- Sequencing Division, Using Tables, Clocks, Measuring, Bar charts Percentage, Review Times Tables, Solving Problems, Measuring the Time: seconds, minutes, hours, days, week years, decade, centuries and millennium Addition, Subtraction, Reflection, division, Pictograms, Money, Time, Pie Charts, 3D shapes, **MATHLETICS- COMPUTER PROGRAME**	**Group 3 -** starter activity Money Division, Using Tables, Clocks, Measuring, Bar charts, Percentage, Review Times Tables, Solving Problems Drawing Triangles, Review Times Tables, Solving Problems, Measuring the Time: seconds, minutes, hours, days, week years, decade, centuries and millennium, Addition, Subtraction, division, Pictograms , Money, Time- **MATHLETICS COMPUTER PROGRAME**	**Group 3 -** starter activity Timetables Recapping: Sorting, Money, Number Patterns, Shapes 3, shapes Weighing, Calendar, Time, Division, Multiplication, Times Tables Stage, Rotations, Percentages, Sequences, Formulae, Angle problems, Entry Level - Fractions, Sorting, Money, Number Addition, Subtraction, division, Pictograms, Time, writing numbers to ONE THOUSAND- **MATHLETICS COMPUTER PROGRAME**	**Group 3 -** starter activity Timetables Sequences, Coordinates and reflections, Properties of numbers, Numbers & the Number System - **MATHLETICS COMPUTER PROGRAME**
Your money matters- financial curriculum	**Your money matters- financial curriculum**	**Your money matters- financial curriculum**	**Your money matters- financial curriculum**	**Your money matters- financial curriculum**	**Your money matters- financial curriculum**
Teacher assessments	**End of unit test**	**Teacher assessments**	**AQA units awards** **End of unit test**	**AQA unit awards** **Teacher assessments**	**AQA unit awards** **Teacher assessments**

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Key Stage 3: Group 2 - Year 9

Autumn 1 Maths	Autumn 2 Maths	Spring 1 Maths	Spring 2 Maths	Summer 1 Maths	Summer 2 Maths
Group 2: Objective: Using and applying mathematics (UA) Time Tables, Basic Multiplication Measurement (Angles) – Definition of Angles, Identifying Angles (Reiterating that all triangles add up to 180 degrees, Working out the missing angles) Definition of Area. How to work out Areas and Perimeter using the required formulae. Algebra (Find the value of the unknown, working with whole and mixed numbers) Using	**Group 2: Objective: Using and applying mathematics (UA)** Time Tables, Basic Multiplication Measurement (Angles) – Definition of Angles, Identifying Angles (Reiterating that all triangles add up to 180 degrees, Working out the missing angles). Definition of Area, How to work out Areas and Perimeter using the required formulae. Algebra (Find the value of the unknown, working with whole and mixed numbers) Using	**Group 2: Objective: Using and applying mathematics (UA) Maths links work book** Time Tables, Basic Multiplication Sequencing, calculation methods Reading scales, improper fractions, Data in lists and tables Definition of Area, How to work out Areas and Perimeter using the required formulae. Entry Level 3- Fractions, Sorting, Money, Number Patterns, Shapes Stage3 -Scale Drawings, Equations	**Group 2: Objective: Maths links work book** **Shape and space**-(angles) **Data:** probability, averages, range, mean **Number:** adding, ordering, multiplying, percentages, ratio Improper and Mixed fractions Reflection percentages	**Group 2: Objective Maths links work book Geometry –angle measure Calculating angles /Properties of triangles/ ratio 3D shapes Written methods of division Written methods of multiplication**	**Exam Preparation** May/June Functional skills exams Number Patterns, Probability, Averages Fractions & Ratio Shape, Space & Measure, Working with Algebra Multiplication & Division

Indices and Base number to simplifying long numbers-	Indices and Base number to simplifying long numbers- explaining the different definition of Indices- (Power, Exponent)	Stage4/5 - Plans, Statistics, Fractions, decimals and percentages, Stage 6 - Compound Measures			
Your money matters- financial curriculum	**Your money matters- financial curriculum**	**Your money matters- financial curriculum**	**Your money matters- financial curriculum**	**Your money matters- financial curriculum**	**Your money matters- financial curriculum**
Teacher assessments	*End of unit test*	*Teacher assessments*	*End of unit test*	*Teacher assessments*	*Teacher assessments*

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Mathematics Curriculum INTENT

Key Stage 4 & Post 16: Group 1 - Years 10, 11, 12, 13

Autumn 1 Maths	Autumn 2 Maths	Spring 1 Maths	Spring 2 Maths	Summer 1 Maths	Summer 2 Maths
Group 1 - Year 1 (KS4) FS Level 1 - GCSE **Objective: Knowing and Using Number Facts** Money, Salary Using and Applying Mathematics Revisit Time tables. Measurement (Angles) –Definition of Angles, Identifying Angles (Reiterating that all triangles add up to 180 degrees, Working out the missing angles) Definition of Area , How to work out Areas and Perimeter using the required formulae. Algebra (Find the value of the unknown, working with whole and mixed numbers) Using Indices and Base number to simplifying long numbers- explaining the different definition of Indices- (Power, Exponent) . How to answer exam question. Working out Cost and Buying Price using percentage	**Group 1 - Year 1 (KS4)** FS Level 1 - GCSE **Objective: Knowing and Using Number Facts** Using and Applying Mathematics Revisit Time tables. Measurement (Angles) –Definition of Angles, Identifying Angles (Reiterating that all triangles add up to 180 degrees, Working out the missing angles) Definition of Area , How to work out Areas and Perimeter using the required formulae. Algebra (Find the value of the unknown, working with whole and mixed numbers) Using Indices and Base number to simplifying long. Numbers, explaining the different definition of Indices- (Power, Exponent) . How to answer exam question. Working out Cost and Buying Price using percentage Worded math problems	**Group 1 - Year 1 (KS4)** FS Level 1 - GCSE **Objective: preparation for May Functional L2 exam.** How to read mathematical questions. **AQA functional skills past exam papers.** **Worded math problems** Definition of Area, How to work out Areas and Perimeter using the required formulae. Algebra (Find the value of the unknown, working with whole and mixed numbers) Using Indices and Base number to simplifying long. Numbers- explaining the different definition of Indices-(Power, Exponent) . How to answer exam question. Working out Cost and Buying Price using percentage **Number:** adding, ordering, multiplying, percentages, ratio Improper and Mixed fractions	**Group 1 - Year 1 (KS4)** FS Level 1 - GCSE **Objective: preparation for May Functional skills exam.** How to read mathematical questions. **AQA functional skills past exam papers** Definition of Area, How to work out Areas and Perimeter using the required formulae. Algebra (Find the value of the unknown, working with whole and mixed numbers) Using Indices and Base number to simplifying long. numbers- . How to answer exam question. Working out Cost and Buying Price using percentage Ratios, Fractions, Probability, **Shape and space**-(angles) **Data:** probability, averages, range, mean	**Group 1 - Year 1 (KS4)** FS Level 1 - GCSE **Objective: preparation for May Functional skills exam.** **Revision all topics** **How to read mathematical questions.** **AQA functional skills past exam papers** **AQA LEVEL 1 AND 2 TEXT BOOKS**	**Exam preparation** **Sit exams May Revisions** Direct numbers, Formulae & Equations, Perimeter, Area & Volume, Handling Data + unit, Decimals, Percentages

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AQA unit award scheme	Mock exam Functional skills AQA	AQA unit award scheme	AQA unit award scheme	AQA unit award scheme	AQA unit award scheme
	AQA unit award scheme				
Teacher assessments	*End of unit test*	*Teacher assessments*	*End of unit test*	*Teacher assessments*	*Exams*
Group 1 - Year 2 (KS4) FS Level 2 – GCSE **Objective: Knowing and Using Number Facts** Place Value + Number Angles, Working with Algebra, Multiplication & Division, Graphs, Positive & Negative Numbers	**Group 1 - Year 2 (KS4)** FS Level 2 – GCSE **Objective: Knowing and Using Number Facts** Problem Solving, Averages, Fractions & Ratio, Shape, Space & Measure, Formulae & Equations	**Group 1 - Year 2 (KS4)** FS Level 2 – GCSE **Objective: Knowing and Using Number Facts** Geometrical Reasoning, Proportional Reasoning, Number Patterns, Probability	**Group 1 - Year 2 (KS4)** FS Level 2 – GCSE **Objective: Knowing and Using Number Facts** Handling Data + unit Decimals, Perimeter, Area & Volume, Percentages	**Group 1 - Year 2 (KS4)** FS Level 2 - GCSE **Objective: preparation for May Functional skills exam. Revision all topics How to read mathematical questions. AQA functional skills past exam papers AQA LEVEL 1 AND 2 TEXT BOOKS Exam preparation Sit exams May**	

Pupils studying at post 16 level can follow Functional Skills certificate level or GCSE Mathematics as outlined above.

Additional Courses
AQA Unit Award Scheme (UAS) - Units include: Geometry, Problem solving, Recognising and applying knowledge, Vocational number skills, Knowledge of measure in everyday life, Data handling, Maths in daily situations, Time and fractions, dimensions

Pupils can also engage in Mathematics related **ASDAN** Courses

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