

### Mathematics/Numeracy Overview

Our ambitious curriculum begins in EYFS where pupils follow the Villa Real Early Years Framework, Numeracy is taught in Key Stage one until the end of Keys Stage Two and then Mathematics in Key Stages 3,4 and 5. These curriculums are mapped and sequenced in Knowledge Continuums across the whole school.

Pupils and Students cover the strands of Mathematics outlined below depending on which pathway or Key Stage they are in. It is each class teachers' responsibility to plan and deliver lessons covering these strands across the year. Each child will access their learning from the stage/level they are at, working through Content and Knowledge Continuums, with teachers using various Schemes of work such as White Rose, Numicon, AQA Entry Level, Villa Real Sensory, Life Skills with support from our Calculation Policy. The diversity of our learners is reflected in the diversity of our Mathematics Curriculum.

Whichever pathway or age of our learners, developing skills in FLUENCY/RECALL, REASONING and PROBLEM SOLVING is fundamental to their experience and learning in every strand of Mathematics/Numeracy.

Links will also be made to our Keystage Curriculum Goals – below are those intrinsically linked with Mathematics and Numeracy learning.

EYFS	Key Stage 1	Key Stage 2	Key Stage 3	Key Stage 4	Key Stage 5
<ul style="list-style-type: none"> <li>• To develop a love of learning and exploration</li> <li>• To learn how to play with each other</li> <li>• To understand their local environment</li> <li>• To begin to recognise their thoughts and feelings</li> <li>• To learn to communicate with their friends and other known people</li> </ul>	<ul style="list-style-type: none"> <li>• To promote early skills, e.g. reading, writing and number</li> <li>• To develop an understanding of how to learn</li> <li>• To learn to communicate with their peers and a wider range of people</li> <li>• To encourage structured learning</li> </ul>	<ul style="list-style-type: none"> <li>• To develop basic literacy and numeracy skills</li> <li>• To develop determination and perseverance</li> <li>• To develop skills for sharing and turn taking in order to play in a group and independently</li> </ul>	<ul style="list-style-type: none"> <li>• To develop personal communication for a variety of audiences including social and academic. To foster positive relationships</li> <li>• To begin to develop life and study skills appropriate for their stage of development and extended curriculum and achieve their personal best</li> <li>• To actively participate within the community and make a positive contribution</li> </ul>	<ul style="list-style-type: none"> <li>• To develop confidence in communicating in a variety of circumstances</li> <li>• To prepare for travel within the community</li> <li>• To expand their life and study skills in order to prepare for adulthood and next steps of training and employment</li> </ul>	<ul style="list-style-type: none"> <li>• To develop an understanding of the roles and responsibilities required for independent living</li> <li>• To take part in work experience and adult community activities</li> <li>• To expand their life and study skills in order to prepare for life beyond school</li> <li>• To take responsibility for their own self care</li> </ul>

**PATHWAY 1 (EYFS)**

STRANDS TO BE COVERED EACH YEAR

Specific strands organised into terms which have commonalities with vocabulary or concepts. No specific order – teachers to organise so classes can share resources/ideas.

Linked to the VRS Early Years Document

Number Size Addition	Number Length Statistics	Number Time Patterns
Number Subtraction Weight	Number 2D shape Position and Direction	Number Capacity/Volume 3D shape

**PATHWAY 2 – Key Stage 1 and 2 (Engagement)****Sensory Curriculum**

7 Areas to be covered across each year. No specific order – Teachers to organise so classes can share resources/ideas.

Maths for SELF CARE Maths for SCHOOL	Maths for SELF CARE Maths for FOOD	Maths for SELF CARE Maths for TRAVEL
Maths for SELF CARE Maths for HOME	Maths for SELF CARE Maths for LEISURE/CULTURE	Maths for SELF CARE Maths for the HIGHSTREET

**PATHWAY 2 – Key Stage 3/4/5 (Engagement)****Sensory Curriculum**

7 Areas to be covered across each year. No specific order – Teachers to organise so classes can share resources/ideas.

Maths for SELF CARE Maths for CAREERS	Maths for SELF CARE Maths for FOOD	Maths for SELF CARE Maths for TRAVEL
Maths for SELF CARE Maths for HOME	Maths for SELF CARE Maths for LEISURE/SOCIALISING/CULTURE	Maths for SELF CARE Maths for the HIGHSTREET

**PATHWAY 3 – Key Stage 1 (Year 1 and 2) (Progression)****2 year rolling program**

Strands to be covered each term – No specific order – Teachers to organise so classes can share resources/Ideas.  
Using the context of life skills/toward adulthood where appropriate. In every topic needs there needs to be application of numeracy skills across the curriculum.

Year A	Number Addition and Subtraction	Number Statistics	Number Multiplication and Division
	Number Fractions	Number Length/Height	Number Weight/Mass
Year B	Number Capacity/Volume	Number Time	Number Money
	Number 2D shape	Number 3D shape	Number Position and Direction

**PATHWAY 3 - Lower Key Stage 2 (Year 3 and 4) (Progression)****2 year rolling program**

Strands to be covered each term – No specific order – Teachers to organise so classes can share resources/ideas.  
Using the context of life skills/toward adulthood where appropriate. . In every topic needs there needs to be application of numeracy skills across the curriculum.

Year A	Number Addition and Subtraction	Number Statistics	Number Multiplication and Division
	Number Fractions	Number Length/Height	Number Weight/Mass
Year B	Number Capacity/Volume	Number Time	Number Money
	Number 2D shape	Number 3D shape	Number Position and Direction

**PATHWAY 3 - Upper Key Stage 2 (Year 5 and 6) (Progression)**

2 year rolling program

Strands to be covered each term – No specific order – Teachers to organise so classes can share resources/ideas.

Using the context of life skills/toward adulthood where appropriate. . In every topic needs there needs to be application of numeracy skills across the curriculum.

Year A	Number Addition and Subtraction	Number Statistics	Number Multiplication and Division
	Number Fractions	Number Length/Height	Number Weight/Mass
Year B	Number Capacity/Volume	Number Time	Number Money
	Number 2D and 3D shape	Number Algebra/Ratio/Proportion	Number Position and Direction

**PATHWAY 3 – Key Stage 3 (Year 7,8 and 9) – More Able Students (Progression)**

2 year rolling program

These Students will consolidate KS1 and KS2 Curriculum

Using the context of life skills/toward adulthood where appropriate. . In every topic needs there needs to be application of numeracy skills across the curriculum.

Year A	Number Addition and Subtraction	Number Statistics	Number Multiplication and Division
	Number Fractions	Number Length/Height	Number Weight/Mass
Year B	Number Capacity/Volume	Number Time	Number Money
	Number 2D shape	Number 3D shape	Number Position and Direction

**PATHWAY 3 – Key Stage 4 (Progression)**

More Able Students will complete Entry Level Curriculum as well as Life Skills Units.

Entry Level Components to be covered in a 2 year cycle.

Course work and controlled assessment to be completed each term. Results gathered over 2 years and only submitted for those in Year 11 and 13.

Year A	Autumn 1 - Properties of Number Maths for SELF CARE	Spring 1 - The Calendar and Time Maths for FOOD	Summer 1 - Ensure Assessments/Course work complete for Year 11 and 13 Maths for HIGHSTREET
	Autumn 2 - Ratio Maths for HOME	Spring 2 – Geometry Maths for LEISURE/SOCIALISING/CULTURE	Summer 2 – Maths for TRAVEL
Year B	Autumn 1 - The Four Calculations Maths for SELF CARE	Spring 1 – Statistics Maths for FOOD	Summer 1 - Ensure Assessments/Course work complete for Year 11 and 13 Maths for HIGHSTREET
	Autumn 2 – Money Maths for HOME	Spring 2 – Measures Maths for FOOD	Summer 2 – Maths for TRAVEL

**PATHWAY 4 – Key Stage 5 (Progression)**

For Students on Progression steps not suited to progress through Entry Level or who have reached optimum level.

Functional Adult Numeracy

Maths for SELF CARE Maths for SCHOOL/CAREERS	Maths for FOOD	Maths for TRAVEL
Maths for HOME	Maths for LEISURE/SOCIALISING/CULTURE	Maths for the HIGHSTREET