

Maths

Key Stage 1

Curriculum Intent

- The teaching of mathematics is organised around the National Curriculum, which is modified to meet each student's learning needs.
- Students' independence is promoted in all areas of academic and practical learning.
- The curriculum and learning experiences are multi-sensory, immersive and play based with teachers drawing on students' interests to create engaging and meaningful learning opportunities. Students will be able to accept new experiences with support.
- Practical play encourages the development of students' confidence around the use of number, shape and mathematical language. Students are supported to use their mathematical skills in a variety of functional learning opportunities beyond discrete maths lessons - across the curriculum and within enrichment activities in the community and the wider world.
- Understanding and security in mathematical learning is achieved by repetition and applying learning in a range of contexts over time.

Curriculum Coverage

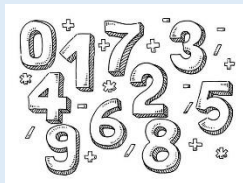
Number
Measurement
Geometry
Fractions, Decimals & Percentages

Learning Specific Skills

Students in Key Stage 1 are:

- Participating in the use of mathematical information to anticipate events, predict outcomes and to solve simple problems. They begin to recognise relationships and use information about objects to sort and match.
- Recognising shapes, experiencing description and naming by and describing positions in space.
- Learning to count numbers to 10 reliably and begin to solve simple number problems in more abstract situations. They explore the rules or principles of counting and use their knowledge for checking. They develop confidence in the sequence of numbers, understanding more and less. They have opportunities to carry out simple additions and subtractions in practical situations.
- Extending their counting skills and their ability to represent data by using fingers, marks, tokens and recording numbers.
- Exploring some common mathematical language to communicate position, and to compare e.g. differences in size, weight or quantity.
- Beginning to present information in different formats - with pictures, symbols, and – with support - make deductions and interpret information.

Curriculum Progression Map



Maths

Key Stage 2

Curriculum Intent

- The teaching of mathematics is organised around the National Curriculum, which is modified to meet each student's learning needs.
- Students' independence is promoted in all areas of academic and practical learning.
- In Key Stage 2 students are developing more self-confidence, resilience and independence in their learning. They are encouraged to take greater responsibility for their learning, their personal choices and to reflect on their learning experiences.
- Students are engaged in subject-specific learning and are beginning to transfer their skills in real life situations. Students have opportunities to apply their learning in daily living activities, such as cooking and shopping in the community

Curriculum Coverage

Number
Measurement
Geometry
Fractions, Decimals & Percentages
Statistics

Learning Specific Skills

Students in Key Stage 2 are:

- Developing confidence and mental fluency with whole numbers, counting and place value. This involves working with numerals, words and the four operations, including with practical resources.
- Developing their ability to recognise, describe, draw, compare and sort different shapes and use the related vocabulary.
- Learning to use a range of measures to describe and compare different quantities such as length, mass, capacity/volume, time and money.
- Reading and spelling mathematical vocabulary, at a level consistent with their developing word reading and spelling knowledge.

Curriculum Progression Map



Maths

Key Stage 3

Curriculum Intent

- The teaching of mathematics is organised around the National Curriculum, which is modified to meet each student's learning needs.
- Students' independence is promoted in all areas of academic and practical learning.
- In Key Stage 3 students are developing greater self-confidence, resilience and independence in their learning. They are becoming independent learners who can make choices and reflect on their learning experiences.
- Students are beginning to transfer their skills in real life situations, including various opportunities to apply their learning in daily living activities.

Curriculum Coverage

Number
Measurement
Geometry
Statistics
Fractions, Decimals & Percentages

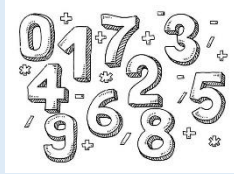
Algebra / Ratio & Proportion introduced as appropriate

Learning Specific Skills

Students in Key Stage 3 are:

- Becoming increasingly fluent with whole numbers and the four operations, including number facts and the concept of place value. They are developing their confidence with number bonds to 20.
- Developing efficient written and mental methods and performing calculations with increasingly large whole numbers.
- Analysing shapes and their properties, and confidently describing the relationships between them.
- Learning to use measuring instruments with accuracy and make connections between measure and number.
- Reading and spelling mathematical vocabulary correctly and confidently, using their growing word reading knowledge and their knowledge of spelling.

Curriculum Progression Map



Maths

Key Stage 4

Curriculum Intent

- The teaching of mathematics is organised around the National Curriculum, which is modified to meet each student's learning needs.
- Students' independence is promoted in all areas of academic and practical learning.
- In Key Stage 4, students are consolidating and applying their learning in a range of functional and vocational experiences. They work towards a range of accreditation, that reflects their interests and the breadth of curriculum opportunities on offer.
- Students are encouraged to develop their fluency in using a variety of maths-based skills in order to solve problems and reason mathematically.
- Students will be able to access accreditation opportunities, including Entry Level Functional Skills qualifications. If students in satellite secondary provisions show the potential and desire to pursue a higher level of maths accreditation, we will work with the partner school to explore available opportunities.

Curriculum Coverage

Number
Measurement
Geometry
Statistics
Fractions, Decimals & Percentages

Algebra / Ratio & Proportion introduced as appropriate

Learning Specific Skills

Students in Key Stage 4 are:

- Becoming increasingly fluent with whole numbers and the four operations, including number facts and the concept of place value.
- Developing efficient written and mental methods and perform calculations accurately with increasingly large whole numbers.
- Developing their ability to solve a range of problems, including with simple fractions and decimal place value.
- Using measuring instruments with accuracy and making connections between measure and number.
- Using their knowledge of money and time in an increasingly functional way.
- Working towards memorising their multiplication tables up to and including the 12 multiplication table and showing precision and fluency in their work.
- Reading and spelling mathematical vocabulary correctly and confidently, using their growing word reading knowledge and their knowledge of spelling.