



Tollbar MAT
Family of Academies



Tollbar Academy

Mathematics

Intent

The intent of the Mathematics Curriculum Area is that students will develop:

- An appreciation of the place of mathematics in society, including historical and cultural influences.
- An ability to think mathematically - precisely, logically and creatively.
- A willingness and ability to work independently and co-operatively.
- An ability to understand mathematical ideas and to communicate them in a variety of modes.
- An appreciation of the interdependence of different branches of mathematics.
- An appreciation of the ways mathematics is used.
- The knowledge, skills and understanding needed to apply a range of mathematical concepts to situations which may arise in their own lives.
- The skills to investigate mathematical ideas and to test and prove their own hypotheses.
- An ability to use mathematics across the curriculum.
- A firm foundation for appropriate further study.



Implementation

- All members of the department uphold high expectations of their students and deliver high quality lessons, through differentiated teaching and learning strategies.
- Every child will be given the opportunity to maximise their mathematical development, by providing educational experiences appropriate to the age, ability and needs of our students.
- They will develop mathematical communication by solving problems using mathematical methods including ICT.
- They will have the opportunity to conduct investigations, thus developing creative thinking by solving unfamiliar problems, posing questions and producing reasoned arguments.
- They will learn about the historical and cultural development of mathematics.
- They will represent problems using appropriate variables, symbols, diagrams and models.
- They will also learn how to make and justify conjectures and generalisations.
- They will experience a wide range of learning styles from enthusiastic specialist teachers that incorporate both individual and group activities.
- A focus is held within the department to enhance children's quality of learning, by raising attainment through effective targeted and regular assessment.

Impact

- Students' increased understanding of maths and the importance of maths to the world around them.
- A greater willingness from students to participate and become increasingly involved in lessons, in a safe environment where a "have a go attitude" is encouraged and rewarded.
- Increased student confidence in their own ability and skills in maths.
- Students' improved perception of their own progress against their own personal targets.
- All students, with the encouragement and impact of effective teaching and support, to gain increasingly positive progress.