

Curriculum Intent, Implementation and Impact

Subject : Mathematics

Year group: 8

Lessons per fortnight: 8

Intent:

The intent of the Mathematics curriculum at TBS is to nurture students to become confident mathematicians. They will develop resilience, spatial reasoning and problem solving skills that will allow them to connect different mathematical concepts together.

Our students will be curious in their approach to this course, as they will be challenged through the different questions/ concepts that are suitable and appropriate for their individual level. This will be evident not only in our lessons but also in the form of extended learning opportunities where students will be encouraged to think outside of the box through National Maths Challenge questions, and further their learning through nationally acclaimed websites like DrFrostMaths.com.

Students will be expected to maximise their learning through the use of their Chrome Books and the tailor made lessons that have been designed to be delivered through them.

Support for students in need of it will be provided through the use of intervention groups.

Ultimately the intent of the mathematics curriculum is to challenge our students to become ambitious individuals who will be successful in their approach to solving complex problems and who will be respectful and empathetic of others. Moreover, they will develop an understanding of the fact that maths goes beyond numerical problems and text books and will start to see and appreciate its beauty in artwork, music, nature, sport, science and the wider world in general.

By the end of the year our students will have gained the requisite mathematical skills to proceed into their year 9 course.

IMPLEMENTATION:

Term	Topics studied Add dates and any assessments included	Extended learning opportunities (homework, controlled assessments, field work, trips etc.)	How parents could support students
Term 1	1 Number 2 Area and Volume	Google classroom - With extended learning opportunities such as sticker club. After school maths club. Homework set on DrFrostMaths. Formative assessments to take place at the end of each unit test with opportunities to respond to feedback.	Ensure that all homework is cross referenced and completed on google classroom Encourage and help your child remember the key skills and terms from Dr. Frost.

		<p>Summative assessment once a term covering all previous topics taught to ensure good recall and practice.</p>	<p>Encourage dialogue with young people about what they have been learning in class and encourage them to make real-world applications/connections that extend beyond number problems</p>
Term 2	<p>3 Statistics, Graphs, and Charts</p> <p>4 Expressions & Equations</p>	<p>Google classroom - With extended learning opportunities such as sticker club.</p> <p>After school maths club.</p> <p>Homework set on DrFrostMaths.</p> <p>Formative assessments to take place at the end of each unit test with opportunities to respond to feedback.</p> <p>Summative assessment once a term covering all previous topics taught to ensure good recall and practice.</p>	<p>Ensure that all homework is cross referenced and completed on google classroom</p> <p>Encourage and help your child remember the key skills and terms from Dr. Frost.</p> <p>Encourage dialogue with young people about what they have been learning in class and encourage them to make real-world applications/connections that extend beyond number problems</p>
Term 3	<p>5 Real-Life Graphs</p> <p>6 Decimals & Ratios</p>	<p>Google classroom - With extended learning opportunities such as sticker club.</p> <p>After school maths club.</p> <p>Homework set on DrFrostMaths.</p> <p>Formative assessments to take place at the end of each unit test with opportunities to respond to feedback.</p> <p>Summative assessment once a term covering all previous topics taught to ensure good recall and practice.</p>	<p>Ensure that all homework is cross referenced and completed on google classroom</p> <p>Encourage and help your child remember the key skills and terms from Dr. Frost.</p> <p>Encourage dialogue with young people about what they have been learning in class and encourage them to make real-world applications/connections that extend beyond number problems</p>
Term 4	<p>7 Lines and Angles</p>	<p>Google classroom - With extended learning opportunities such as sticker club.</p> <p>After school maths club.</p> <p>Homework set on DrFrostMaths.</p>	<p>Ensure that all homework is cross referenced and completed on google classroom</p> <p>Encourage and help your child remember the key skills and terms from Dr. Frost.</p>

		<p>Formative assessments to take place at the end of each unit test with opportunities to respond to feedback.</p> <p>Summative assessment once a term covering all previous topics taught to ensure good recall and practice.</p>	<p>Encourage dialogue with young people about what they have been learning in class and encourage them to make real-world applications/connections that extend beyond number problems</p>
Term 5	<p>8 Calculating with Fractions</p> <p>9 Straight-line Graphs</p>	<p>Google classroom - With extended learning opportunities such as sticker club.</p> <p>After school maths club.</p> <p>Homework set on DrFrostMaths.</p> <p>Formative assessments to take place at the end of each unit test with opportunities to respond to feedback.</p> <p>Summative assessment once a term covering all previous topics taught to ensure good recall and practice.</p>	<p>Ensure that all homework is cross referenced and completed on google classroom</p> <p>Encourage and help your child remember the key skills and terms from Dr. Frost.</p> <p>Encourage dialogue with young people about what they have been learning in class and encourage them to make real-world applications/connections that extend beyond number problems</p>
Term 6	<p>10 Percentages, Decimals and Fractions</p> <p>End of Year Assessment</p>	<p>Google classroom - With extended learning opportunities such as sticker club.</p> <p>After school maths club.</p> <p>Homework set on DrFrostMaths.</p> <p>Formative assessments to take place at the end of each unit test with opportunities to respond to feedback.</p> <p>Summative assessment once a term covering all previous topics taught to ensure good recall and practice.</p>	<p>Ensure that all homework is cross referenced and completed on google classroom</p> <p>Encourage and help your child remember the key skills and terms from Dr. Frost.</p> <p>Encourage dialogue with young people about what they have been learning in class and encourage them to make real-world applications/connections that extend beyond number problems</p>

IMPACT:

The impact of the course is measured primarily through our ongoing formative and summative assessments. Regular formative assessments allow teachers to address

students misconceptions and areas of weakness. These assessments are opportunities for students to demonstrate their mathematical knowledge. Results will be reported on in the form of mastery grades. The content being reported on will cover 5 different categories: Number, Algebra, Ratio/ Proportion/ Rates of Change, Geometry and Measures, Statistics and Probability. This year 8 course will prepare our students well for the course that they will follow in year 9. Ultimately, at the end of their time with us, students will be able to think independently and process their thoughts in a logical and sequential way, hence enhancing any future decision making and judgements.