BUTTERSHAW BUSINESS & ENTERPRISE COLLEGE
A member of the bdat family

We all belong at BBEC

Curriculum Map: Year 7

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Topic	Sequences. Understanding and using algebraic notation. Equality and equivalence.	Place value and ordering integers and decimals. Fractions, decimals and percentages equivalence.	Solving problems with addition and subtraction. Solving problems with multiplication and division. Fractions and percentages of amounts.	Four operations with directed numbers. Addition and subtraction of fractions.	Constructing, measuring and using geometric notation. Developing geometric reasoning.	Develop number sense. Sets and probability. Prime numbers and proof.
Intent	Ensure students are resilient learners with the ability to persevere through challenges. Develop a deep understanding of mathematical concepts.					
Key Knowledge	Types of sequences. Famous sequences – Fibonacci. Algebraic notation. Solving linear equations.	Understanding the value of different digits in numbers. Order of numbers, including negative and decimals. Equivalent fraction, decimal and percentages.	Written methods of addition, subtraction, division and multiplication up to and including negatives and decimals. Finding a fraction and a percentage of an amount.	Order of numbers including negatives. Which numbers multiply and divide to make positive and negative values. How to form an equivalent fraction. Multiples and factors.	Key angle facts. Conversions between different units of measurements.	Probability adds to 1. Different prime numbers. Different types of tables.
Key Skills	Four operations. Forming expressions. Inverse operations. Solving equations.	Ordering numbers. Converting between fractions, decimals and percentages. Ordering FDP.	Four operations. Finding a fraction of an amount. Finding a percentage of an amount.	Four operations with negative numbers. Finding equivalent fractions. Converting between improper fractions and mixed numbers.	How to use a ruler and protractor. Addition and subtraction.	Four operations. Constructing a two way table. Find roots and square of different numbers.
Key Vocabulary	Sequence Arithmetic Quadratic Geometric Equation Equivalence Expression Like term	Integer Digit Decimal Negative Tenths Hundredths Fraction Percentage Decimal	Addition Subtraction Multiplication Division Fraction Percentage Perimeter Area Factor Multiple Inverse Exchange	Addition Subtraction Multiplication Division Fraction Factor Multiple Numerator Denominator	Angle Protractor Ruler Acute Obtuse Reflex	Prime Root Square Probability Likely Certain Impossible Factor Multiple
Key Reading	Sparx Maths Website Individual Mathematics exercise books Microsoft Teams work					

End Point	Students should be fluent in the key knowledge and skills listed for each topic . Students should be able to apply understanding to reason and solve problems in a variety of contexts confidently.
Form of Assessment	End of unit assessment including section for prior learning.
Enrichment opportunities	UKMT Maths challenge UKMT team Maths challenge