

BTAH Mathematics Overview

<u>YR</u>	<u>AUT 1</u>	<u>AUT 2</u>	<u>SPR 1</u>	<u>SPR2</u>	<u>SUM 1</u>	<u>SUM 2</u>
7/8	Patterns and Sequences & Using algebraic notation	Equality and Equivalence, Place values & Fractions, Decimal, Percentages	Operations with number & Fractions and percentage of amounts	Operations with directed numbers & Adding and subtraction fractions	Working with angles & Operations with integers	Sets and Probability & Prime numbers
	<ul style="list-style-type: none"> Careers-algebra in the work place EDI- in PSHE Sustainability- Equivalence and Sustainability PSHE-Equality in PSHE 		<ul style="list-style-type: none"> Careers- jobs that we use fractions in EDI- Inclusive approach to teaching fractions Sustainability- Sustainability and fractions PSHE – Elections and Voting 		<ul style="list-style-type: none"> Careers- what job requires angles EDI-Sets and probability Amazon Policy Sustainability – Climate Change and Maths PSHE – Where did Pythagoras' Theorem Originate? 	
9	Straight line graphs & Equations	3 D shapes & Constructions and Congruency	Fractions and Percentages & Money calculations	Rotations and Translations & Pythagoras	Enlargement and Similarity & Ratio	Speed distance and Time &

BTAH Mathematics Overview

						Probability
	<ul style="list-style-type: none"> Careers – Architecture and Design EDI – Egyptians, Greek, Indian Mathematicians Sustainability – Understanding and Displaying Climate Change 		<ul style="list-style-type: none"> EDI – Currency Exchange Careers- jobs where these are used Fractions and sustainability PSHE- Money calculations and PSHE 		<ul style="list-style-type: none"> EDI-Diversity and inclusion metrics Careers- where do we use ratios? Sustainability- Sustainability under severe uncertainty PSHE – Elections and Voting 	
10	Number Calculations & Algebraic Manipulation	Graphs, tables and charts & Fractions and percentages & Equations, inequalities and sequences	Angle Properties & Averages and Range	Perimeter, area and volume & Transformations and Graphs	Ratio and Proportion & Pythagoras Theorem	Probability & Multiplicative reasoning & Construction
	<ul style="list-style-type: none"> Careers- what jobs use algebra EDI- how can we use maths Sustainability and Fractions 		<ul style="list-style-type: none"> Careers- where may we use Area Sustainability- average salary of a green job PSHE – Where did Pythagoras’ Theorem Originate? 		<ul style="list-style-type: none"> Careers-where may we use ratio EDI - Sets and probability Sustainability – Climate Change and Maths 	

BTAH Mathematics Overview

10(FS)	Angles, Ratio and proportion & Formula	Data collections sheets, Decimal numbers & Negative numbers	Area and Perimeter, Fractions Decimal and Percentages & Calculations with fractions	Averages, Bar and Pie charts & Distance Measures	Calculations with money & Percentage of amount/ quantity	Calculations with time & Probability
11 (F)	Algebraic Manipulation. Fraction Decimals and Percentages Angle Facts, Perimeter, Area and Volume Estimating and Rounding Directed Number and Best Buys	Data, Interior and Exterior Angles, Bearings, 3D Shape, Speed Distance Time Mass Density Volume	Expanding and Factorising Sequences and Nth term Bisectors and Construction Graphs Pythagoras	Trigonometry Bounds Simultaneous Equations Sectors and Arc Congruency and Similarity	REVISION	
	<ul style="list-style-type: none"> PSHE & EDI– Black History - Islamic Designs Sustainability – Climate Change and Maths Careers – Use of Negative Numbers in the Real World 		<ul style="list-style-type: none"> PSHE and EDI – Where did Pythagoras’ Theorem Originate? Sustainability – Maths and Measurements Careers – When will I need Maths in my Career? 			
11(FS)	Averages, Ratios and Best buys	Data collection sheets Interpreting & Drawing charts and graphs Calculations with time	Probability, Symmetry & Scale drawing	Formula and Algebra & Fraction Decimal and Percentages	Measures shapes and space & Money calculations	Negative numbers, Perimeter Area and volume

BTAH Mathematics Overview

						& Nets of 3 d shapes
11 (H)	Number Calculations & Algebraic Manipulation	Graphs of Algebraic Functions	Ratio and Proportion & Pythagoras Theorem & Trigonometry	REVISION	REVISION	
	<ul style="list-style-type: none"> PSHE & EDI– Black History - Islamic Designs Sustainability – Climate Change and Maths Careers – When will I need Maths in my Career? 		<ul style="list-style-type: none"> PSHE & EDI – Where did Pythagoras’ Theorem Originate? Sustainability – Maths and Measurements Careers – When will I need Maths in my Career? 			