



Year 9 LONG-TERM SEQUENCE for Maths Foundation Tier

Bishop Milner



The curriculum for this stage of students' education has been designed to build upon their knowledge of percentages to enable them to compare quantities and combine it with their knowledge of proportion. Students will also have the opportunity to study different methods of sampling and how to interpret grouped data. Students will also have the opportunity to look at angles in polygons and angles associated with parallel lines. Building on this, students will study Pythagoras' theorem and trigonometry and will have the opportunity to combine this with 3D shapes. Each half term, students will focus on one particular area of Mathematics, allowing for a greater depth of that topic and allowing regular repetition of skills, as well as allowing students to make links between topics. Throughout the year, students will be exposed to regular exam questions and exam papers to prepare them fully for their mock exam at the end of the year. Underpinning the curriculum areas, will be the opportunity to explore how the skills they are developing can be used in real life situations and applied to problem solving questions.

The year. Onderprinning the current areas, will be the opportunity to explore now the skins they are developing can be used in rear me situations and applied to problem solving questions.		
HALF TERM 1: NUMBER	HALF TERM 1: NUMBER	HALF TERM 3: GEOMETRY
STUDENTS MUST KNOW:	STUDENTS MUST KNOW:	STUDENTS MUST KNOW:
The importance of being able to calculate including	The importance of being able to calculate including	The importance of units of measure including
 Four operations with negatives. 	Four operations with negatives.	 Metric and imperial conversions.
 HCF and LCM with prime numbers. 	HCF and LCM with prime numbers.	 Properties of 3D shapes.
 Using rounding to estimate solutions. 	 Using rounding to estimate solutions. 	How to solve missing angle problems including
How to calculate with fractions including	How to calculate with fractions including	Angles in polygons.
 The four operations with fractions. 	The four operations with fractions.	 Corresponding and alternate angles.
 Calculating fractions of quantities. 	Calculating fractions of quantities.	Bearings.
HOW THIS WILL BE ASSESSED:	HOW THIS WILL BE ASSESSED:	HOW THIS WILL BE ASSESSED:
Assessments will be completed at the end of each topic and	Assessments will be completed at the end of each topic and	Assessments will be completed at the end of each topic and
one main assessment will occur during each term to assess	one main assessment will occur during each term to assess	one main assessment will occur during each term to assess
progress.	progress.	progress.
HALF TERM 4: ALGEBRA	HALF TERM 4: ALGEBRA	HALF TERM 6: GEOMETRY
STUDENTS MUST KNOW:	STUDENTS MUST KNOW:	STUDENTS MUST KNOW:
How to carry out basic algebraic manipulation including	How to carry out basic algebraic manipulation including	The importance of right-angled triangles including
 Expanding and factorising, including quadratics. 	 Expanding and factorising, including quadratics. 	 Pythagoras' theorem.
 How to change the subject of a formula. 	 How to change the subject of a formula. 	Trigonometric ratios.
 Substitution into expressions and formulas. 	Substitution into expressions and formulas.	 Angles of elevation and depression.
Various techniques for solving linear equations including	Various techniques for solving linear equations including	 Standard trigonometric ratios.
 Equations with unknowns on both sides. 	• Equations with unknowns on both sides.	
 Equations with fractional answers. 	Equations with fractional answers.	
HOW THIS WILL BE ASSESSED:	HOW THIS WILL BE ASSESSED:	
Assessments will be completed at the end of each topic and	Assessments will be completed at the end of each topic and	HOW THIS WILL BE ASSESSED:
one main assessment will occur during each term to assess	one main assessment will occur during each term to assess	Assessments will be completed at the end of each topic. All
progress.	progress.	students will sit a mock GCSE exam in the summer term.

Embedding this knowledge can be supported at home by using Dr Frost Maths website to consolidate learning that has taken place in class, attempting questions which can be found online at <u>www.corbettmaths.com</u>, practising exam papers from the AQA website and www.mathsgenie.co.uk and using revision guides and the CGP workbook provided.