Bishop Milner CATHOLIC COLLEGE

Year 11 LONG-TERM SEQUENCE for Mathematics Foundation Tier

The curriculum for this stage of students' education has been designed to prepare them for their final exam as well as providing the opportunity to access mathematics from the next stage of study. During the first term students will develop their knowledge of index laws as well as applying their understanding of standard form to calculate with numbers in standard form. Students ability to solve linear equations will be built upon as they have the opportunity to solve simultaneous equations as well as studying non- linear graphs. Throughout the year, students will be exposed to regular exam questions and exam papers to prepare them fully for their 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.

HALF TERM 1: NUMBER **STUDENTS MUST KNOW:** How to apply index laws and work with numbers in standard form including • Rules for multiplying and dividing numbers in index form. • The four operations with numbers in standard form. How to apply knowledge of linear equations to simultaneous equations including • Solving linear simultaneous equations by elimination of variables. • Solving simultaneous equations using graphs. **HOW THIS WILL BE ASSESSED:** A GCSE exam paper will be completed each week and feedback provided, as well as assessments at the end of each topic.	**HALF TERM 1:** NUMBER **STUDENTS MUST KNOW:** How to apply index laws and work with numbers in standard form including • Rules for multiplying and dividing numbers in index form. • The four operations with numbers in standard form. How to apply knowledge of linear equations to simultaneous equations including • Solving linear simultaneous equations by elimination of variables. • Solving simultaneous equations using graphs. **HOW THIS WILL BE ASSESSED:** A GCSE exam paper will be completed each week and feedback provided, as well as assessments at the end of each topic.	**HALF TERM 3** **STUDENTS MUST KNOW:** **HOW THIS WILL BE ASSESSED:**
HALF TERM 4: GEOMETRY, STATISTICS AND RATIO REVISION **STUDENTS MUST KNOW:** The fundamental aspects of geometry and statistics including • Finding missing angles using angle facts. • Area, surface area and volume. • Similarity and congruence. The fundamental aspects of ratio and proportion including • Sharing into a ratio and associated problems. • Direct and inverse proportion. **HOW THIS WILL BE ASSESSED:** A GCSE exam paper will be completed each week and feedback provided and a whole school mock exam.	**HALF TERM 4:** GEOMETRY, STATISTICS AND RATIO REVISION **STUDENTS MUST KNOW:** The fundamental aspects of geometry and statistics including • Finding missing angles using angle facts. • Area, surface area and volume. • Similarity and congruence. The fundamental aspects of ratio and proportion including • Sharing into a ratio and associated problems. • Direct and inverse proportion. **HOW THIS WILL BE ASSESSED:** A GCSE exam paper will be completed each week and feedback provided and a whole school mock exam.	**HALF TERM 6** **STUDENTS MUST KNOW:** **HOW THIS WILL BE ASSESSED:**

Embedding this knowledge can be supported at home by using MyMaths website to consolidate learning that has taken place in class, attempting questions which can be found online at www.corbettmaths.com, practising exam papers from the AQA website and www.mathsgenie.co.uk and using revision guides.