

All Hallows RC High School

Specialising in Business, Enterprise & Sports



MATHS CURRICULUM OVERVIEW

MR G GRUNDY

September 2022



WE AIM FOR ALL HALLOWS RC
BUSINESS, ENTERPRISE AND SPORTS COLLEGE TO BE A
CATHOLIC SCHOOL
TO WHICH CHILDREN WISH TO COME
TO WHICH PARENTS WISH TO SEND THEIR CHILDREN
AND WHERE TEACHERS
WISH TO TEACH

OUR MISSION IS TO OFFER A
HIGH QUALITY
CATHOLIC EDUCATION
FOR ALL, IN AN ENVIRONMENT WHERE
GOSPEL VALUES ARE CENTRAL
TO TEACHING AND LEARNING
AND IN WHICH THE
UNIQUE VALUE
OF EACH PERSON IS
RECOGNISED AND RESPECTED

Curriculum Intent

“Without mathematics, there’s nothing you can do. Everything around you is mathematics. Everything around you is numbers.”

Shakuntala Devi

The Mathematics Curriculum at All Hallows aims to allow all students access to a range of experiences that will:

- Develop a broad knowledge and understanding of the mathematical concepts that allow students to become numerate and resilient problem solvers.
- Help them understand the links between key mathematical concepts and see how they are used in a variety of interesting and useful contexts.
- Allow them to realise the power that mathematics has to help us communicate effectively in a technological world.
- Allow them to appreciate the intrinsic and aesthetic qualities of mathematical shapes, proofs and patterns.
- Allow them to realise the satisfaction of tackling a problem or a puzzle and understanding that good Mathematicians are stuck most of the time.

Mathematics is the means of exploring and communicating the ideas and patterns that make up our world. We aim to build on the many skills that are developed in primary school so that we can provide a meaningful and enjoyable secondary experience. Students will be placed into setted groups according to their performance in the KS2 maths tests so that all students can develop at an appropriate level. Regular assessment helps to ensure that all potential is spotted and groups are adjusted accordingly during the year.

KS3 Order of Teaching 2022/2023

Our scheme of work focuses on the six subject content areas identified in the Key Stage 3 National Curriculum for mathematics:

- Number
- Algebra
- Ratio, proportion and rates of change
- Geometry and measures
- Probability
- Statistics

All of these elements are covered in Year 7 and the experience is enriched for students with opportunities to develop their problem solving ability.

The mathematics course in Year 8 is designed to build on the skills and understanding that students develop in their Year 7. As such the headings are very similar but topics are developed to a higher degree and the complexity of problems increases. Students are still placed in setted groups according to their abilities. Regular assessment helps to ensure that all potential is spotted and the groups are adjusted accordingly during the year.

The mathematics course in Year 9 builds on the skills and understanding that students have already developed. It is designed to prepare all of the students for the transition to their GCSE courses. Students continue to be taught in setted classes according to their abilities. Regular assessment monitors progress and ensures all potential is recognised.

Our scheme of learning covers all of the requirements for the National Curriculum and is scheduled as follows.

KS3

Year	Term 1	Term 2	Term 3
Year 7	Factors, Multiples and Primes Division and Fractions Place Value and Arithmetic Rounding and Estimation Length, area and volume Expressions	Time, units and measure. Proportional Equivalence Properties of shapes Angles Transformations Statistics	Order of Operations Sequences Equations Proportionality and ratio Probability Constructions, Scale drawing and ratio
Year 8	Properties of Number and Indices Division and Fractions Place Value and Arithmetic Rounding and Estimation Length, area and volume Expressions	Time, units and measure. Proportional Equivalence Properties of shape Angle rules Transformations Statistics	Order of Operations Sequences, rules and graphs Equations Proportionality and ratio Probability Constructions Scale Drawing
Year 9	Properties of Number - Indices and Surds Division and Fractions Place Value and Arithmetic Rounding and Estimation Length, area and volume Expressions	Proportional Equivalence Properties of shape Angle rules and circle theorems Order of Operations Indices Transformations Formulae and Equations	Formula Sequences, rules, linear and quadratic graphs Proportionality and ratio Enlargement and similarity Probability

KS4 Order of Teaching

Year	Term 1		
10	NUMBER OPERATIONS AND INTEGERS	FRACTIONS, DECIMALS AND PERCENTAGES	INDICES AND SURDS
11	MENSURATION	PROBABILITY	STATISTICS

Year	Term 2		
10	APPROXIMATION AND ESTIMATION	RATIO, PROPORTION AND RATES OF CHANGE	ALGEBRA
11	REVISION	REVISION	REVISION

Year	Term 3		
10	GRAPHS OF EQUATIONS AND FUNCTIONS	BASIC GEOMETRY	CONGRUENCE AND SIMILARITY
11	REVISION		

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