

Introduction

The Maths department enhance students' lives in the study of maths by fulfilling the St Joseph's Mission statement, **Living, loving, learning through Christ**. We strive to make learning enjoyable, inspire a love of maths and a thirst for knowledge in our students, developing them as independent and enquiring learners. In order to achieve our aim, we endeavour to:

- Ensure all students make outstanding progress, regardless of their starting point.
- Ensure all maths lessons include relevant challenges, pupil engagement and a focus on celebrating success.
- Provide all students with the opportunity for meaningful dialogue to take place in lessons.
- Promote independent
- Provide mathematical tasks to deepen their understanding by representing concepts using objects, pictures, symbols and words.
- Help all students develop into creative, analytical and independent thinkers.
- Encourage all pupils to develop skills to enable them to
- Enable all students to develop mathematical language to strengthen conceptual understanding enabling students to explain and reason.
- Provide a supportive, engaging and challenging learning environment to help students achieve their very best.
- Provide students with opportunities to develop mathematical thinking skills and develop their confidence when problem solving.
- Prepare students for the world of Higher Education and work by guiding them to successful assessment at GCSE and raising their aspirations.

Topics covered in each year group

We follow a 5 year scheme of Learning

We follow the Edexcel 5 year Scheme of Work. In years 7,8 and 9 students have 4 lessons a week. In year 10, they have 5 lessons a week and Y11 have 5 lessons plus registration time each day where they have their maths teacher as their form tutor and systematically revise each unit of the GCSE Course. Homework tasks are set on-line through Hegarty Maths. We also using SENeca learning, a free online learning platform, for revision.

Year 7

The Year 7 curriculum is delivered in 10 Units building on prior learning at KS2 and links into key skills at GCSE. All students cover the same Units, all units having a **Support**, a **Core** and an **Extension** element. Enrichment and problem solving are a regular feature of learning

Autumn 1&2:

- **Unit 1** – Analysing and Displaying Data
- **Unit 2** – Number Sense
- **Unit 3** - Expressions, functions and formulae
- **Unit 4** – Decimals and Measure

Spring 1&2:

- **Unit 5** - Fractions
- **Unit 6** – Probability
- **Unit 7** - Ration and Proportion
- **Unit 8** – Lines and Angles

Summer 1& 2:

- **Unit 9** - Sequences and Graphs
- **Unit 10** – Transformations
- **Consolidation and Revision**

Year 8

The Year 8 curriculum is covered in 10 Units building on prior learning at KS2 and links into key skills at GCSE. All students cover the same Units, all units having a **Support**, a **Core** and an **Extension** element. Enrichment and problem solving are a regular feature of learning

Autumn 1&2:

- **Unit 1** – Number
- **Unit 2** – Area and Volume
- **Unit 3** - Statistics, Charts and Graphs
- **Unit 4** – Expressions and Equations

Spring 1&2:

- **Unit 5** - Real Life Graphs
- **Unit 6** –Decimals and Ratio
- **Unit 7** - Lines and Angles
- **Unit 8** – Calculating with Fractions

Summer 1& 2:

- **Unit 9** - Straight Line Graphs
- **Unit 10** –Percentages, Fractions and Decimals
- **Consolidation and Revision**

Year 9

The year 9 curriculum builds on skills and knowledge obtained in year 7 and 8. In year 9, students either follow the Higher GCSE Course consisting of 19 Units or the Foundation GCSE Course consisting of 20 Units

Higher**Autumn 1&2:**

- **Unit 1** – Number
- **Unit 2** – Algebra

Spring 1&2:

- **Unit 3** - Statistics, Charts and Graphs
- **Unit 4** –Fractions, Percentages, Decimals and Ratio

Summer 1& 2:

- **Unit 5** - Geometry and Trigonometry
- **Unit 6** – Coordinate Geometry
- **Unit 7** –Accuracy, 2-D and 3-D Geometry
- **Consolidation and Revision**

Foundation

Autumn 1&2

- **Unit 1** – Number
- **Unit 2** – Algebra #1

Spring 1 & 2

- **Unit 3** - Statistics, Charts and Graphs
- **Unit 4** –Fractions, Percentages and Decimals

Summer 1&2

- ∄ **Unit 5** –Algebra #2
- ∄ **Unit 6** –Shape and Angles
- ∄ **Unit 7** – Statistics and sampling
- ∄ **Consolidation and Revision**

Year 10

The year 10 curriculum builds on skills and knowledge obtained in year 7, 8 and 9. In year 10, students either follow the Higher GCSE Course consisting of 19 Units or the Foundation GCSE Course consisting of 20 Units

Higher

Autumn 1&2:

- **Unit 4** – Fractions, Percentages, Decimals and Ratio
- **Unit 5** - Geometry and Trigonometry
- **Unit 6** – Coordinate Geometry
- **Unit 7** –Accuracy, 2-D and 3-D Geometry

Spring 1&2:

- **Unit 8** - Transformations
- **Unit 9** - Algebra
- **Unit 10** - Probability
- **Unit 11**- Multiplicative Reasoning
- **Unit 12** –Congruence

Summer 1& 2:

- **Unit 13** – Trigonometry
- **Unit 14** – Statistics
- **Unit 15** –Graphs
- **Consolidation and Revision**

Foundation

Autumn 1&2:

- ∄ **Unit 4** – Fractions, Percentages and Decimals

- € **Unit 5** –Algebra
- € **Unit 6** –Shape and Angles
- € **Unit 7** – Statistics and sampling

Spring 1&2:

- € **Unit 8** – Area and Volume
- € **Unit 9**- Graphs
- € **Unit 10** - Transformations
- € **Unit 11** - Ratio and Proportion
- € **Unit 12** – Geometry and Trigonometry

Summer 1& 2:

- € **Unit 13** - Probability
- € **Unit 14** – Multiplicative Reasoning
- € **Unit 15** –Geometry
- € **Consolidation and Revision**

Year 11

The year 9 curriculum aims to build on skills and knowledge obtained in year 7, 8, 9 and 10. In year 9, students either follow the Higher GCSE Course consisting of 19 Units or the Foundation GCSE Course consisting of 20 Units

Higher

Autumn 1&2:

- **Unit 15** – Algebra
- **Unit 16** – Circle Theorems

Spring 1&2:

- **Unit 17** - Algebra
- **Unit 18** – Vector Geometry
- **Unit 19** –Graphs and Proportion

Summer 1& 2:

- **Past Papers**
- **Consolidation and Revision**

Foundation

Autumn 1&2

- **Unit 15** – Geometry
- **Unit 16** – Algebra #1

Spring 1 & 2

- **Unit 17** – Area and Volume
- **Unit 18** - Number
- **Unit 19** –Geometry #2

Summer 1&2

- € **Unit 20** –Algebra #2
- € **Past Papers**

€ **Consolidation and Revision**

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