



Edgbarrow School

Year 12

Core Maths



Curriculum Intent

AS Level Core Mathematics will enable students to develop:

- Recall or recognition of mathematical facts, concepts and techniques, to select and apply to a variety of situations in the real world.
- Mathematical language and use notation confidently.
- Logical processes to devise and implement a solution strategy to previously unseen unstructured challenging problems.
- Interest and enthusiasm in the subject and be inspired to investigate the power of Mathematics beyond the scope of the course

○ What am I studying this year and how and when will I be assessed?

| Knowledge and Skills | | Time of Year | Assessment | Homework |
|---|--|--------------|---|--|
| Quantitative Reasoning Errors and estimation Percentages Financial maths Spreadsheets The modelling cycle | Statistical Problem Solving Introduction to statistics: sampling, averages and spread Normal distribution Hypothesis testing, including normal and Chi Squared tests Correlation, including PMCC, Spearman's Rank | Autumn Term | Finance mini-project: end of September Statistics test – mid-December | Homework is set in core maths to give students opportunity for independent practice on key skills and current content to secure knowledge. Students will be set weekly exam-style question worksheets as well as homework from each of their lessons. |
| Quantitative Reasoning Algebra and formulae Geometry and measures Ratio and proportion Standard form Exponentials and Logarithms Graphs Exam practice and past papers | Statistical Problem Solving Modelling data Practical statistics Probability Risk Exam practice and past papers | Spring Term | Jan Mock: 1x QR paper, 1x SPS paper. Content TBC based on amount covered. Full mock before Easter covering all content on both papers. | |
| Revision for AS level exams | | Summer Term | AS level examinations mid-May | |

Year 12 Assessment Dates: Jan 2024

Your Jan mock will consist of 2 papers:

1x Quantitative Reasoning, 1x Statistical Problem Solving, including pre-release material

Students will be advised on topics to revise

Marking Abbreviations

(More detail on guidance sheet)

1SPL Use 1 Step Per Line
CON Missing or incorrect connectives
N Notation
ST Missing statement
R Rounding

Year 12 Assessment Dates: May 2024

AS level exams (dates to be confirmed by exam board)

Expected presentation of work

- Diagrams, graphs, drawings should all be done in pencil
- Mark work in a different colour
- All homework done in correct homework book (different one for each teacher) unless requested on loose paper
- All classwork in correct module book.