



Year 10 Parent Information Evening

Preparation for Maths GCSE

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Exam board: Edexcel 1MA1

GCSE Maths is studied either at Higher or Foundation level

Both tiers of entry consist of 3 papers:

Paper 1 - Non-calculator

Paper 2 - Calculator

Paper 3 - Calculator

All 3 papers are 90 minutes long and carry equal weighting (80 marks each, total of 240 marks)

Current structure of Year 10 groups:

Set 0 – Aiming for 7, 8, 9

Set 1 – Aiming for 6, 7

Higher Tier

Set 2 – Aiming for 4, 5

Set 3 – Aiming for 4 or below

Foundation Tier

Setting structure is not set in stone and tier of entry is not decided until Year 11.

Tier	Topic area	Weighting
Foundation	Number	22 - 28%
	Algebra	17 - 23%
	Ratio, Proportion and Rates of change	22 - 28%
	Geometry and Measures	12 - 18%
	Statistics & Probability	12 - 18%
Higher	Number	12 - 18%
	Algebra	27 - 33%
	Ratio, Proportion and Rates of change	17 - 23%
	Geometry and Measures	17 - 23%
	Statistics & Probability	12 - 18%

Heaviest weighting

Heaviest weighting

Course content:

- Topics in KS3 form the building blocks of GCSE and it can be worth pupils revisiting this content.
- GCSE content is covered by end of January in Year 11.
- Lessons after this time concentrate on consolidation and exam technique.

Maths Foundation GCSE

Curriculum Map

Probability

Number

Shape,
Space and
Measures

Algebra

Data
Handling

← Year 11 Summer Term

← Year 11 Spring Term

← Year 11 Autumn Term

← Year 10 Summer Term

Final Exams

Revision

Mock
Exams

Revision

Ratio

Vectors

Exact
Trigonometric
Values

Turning
Points and
Intercepts

Identities,
Inputs, and
Outputs

Measures

Revision and
End of Year
Exams

Transformations

Algebraic
Graphs

Venn
Diagrams

Indices

Fractions

Graphs
and Charts

Algebraic
Manipulation

Volume

Pythagoras'
Theorem

Equations
and
Inequalities

Percentages

Trigonometry

Similarity
and
Congruence

Frequency
and Tree
Diagrams

Circles and
Sectors

Algebraic
Proportion

Changing the
Subject of a
Formula

Ratio

→ Year 10 Autumn

→ Year 10 Spring Term

Maths Higher GCSE Curriculum Map

← Year 11 Summer Term ← Year 11 Spring Term ← Year 11 Autumn Term

Final Exams Revision Mock Exams Revision Congruence Algebraic Fractions Vectors Numerical Methods Equation of a Circle Sequences Identities and Proof Measures

Probability Number Shape, Space and Measures Algebra Data Handling

Revision and End of Year Exams

Transformations of Functions

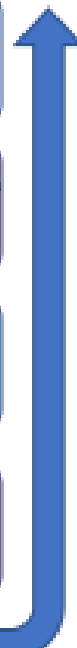
Venn Diagrams

Indices Surds Histograms Recognising Graphs Volume Pythagoras' Theorem and Trigonometry Quadratic Inequalities Growth and Decay Sine and Cosine Rule Similarity Tree Diagrams Circle Theorems Inverse Proportion Functions and Iteration Trigonometric Graphs

→ Year 10 Autumn

→ Year 10 Spring Term

→ Year 10 Summer Term



Learning Intentions	Sparx References	10H.01 Indices
Review of calculations with Powers and Roots	U851	
Combining basic index laws	U325	
Manipulating indices		
Negative and 0 indices	U694	
Fractional indices	U985	
Negative, fractional indices	U772	

- Pupils are provided with learning intention slips at the beginning of each unit.
- These are also posted on Teams pages.
- Pupils can use these to review or supplement their work in lessons.
- If a pupil misses a lesson, they can use the Sparx references to catch up.

Homework and Assessments:

- Homework is set on Teams
- Homework is a mixture of Sparx and written assignments
- Assessments take place throughout the year and inform set changes
- Pupils are given detailed feedback for each assessment.
- Videos for homework and assessments are available on Teams.



Compulsory



XP Boost



Target



Independent Learning

Hey Clare,

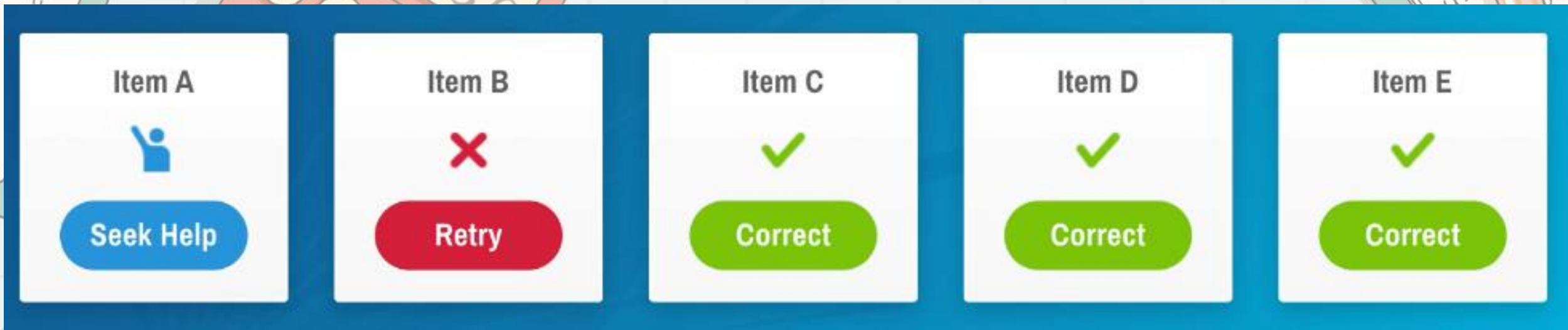
This is your personalised Compulsory homework. You need to answer every question correctly to complete it.



▼ Introducing Sparx Maths

Completed ✓

- Sparx is an online platform that is used for homework.
- It can be used for revision/review of topics.
- Sparx uses an algorithm to adapt to the user.
- Extra independent work can be completed on Sparx.



- Each question has a short video clip that can be viewed if you get stuck
- Pupils can search for topics via the independent learning section

Find topics

My activity

Choose to practice any topic from the Sparx library at any difficulty level.

Search for topics:

Your curriculum:

Default level:

Enter topic name or code

GCSE

Level 3

Select a topic:

Number



Algebra



Ratio and Proportion

3:2

Geometry



Probability



Statistics



M885 will take you to
Writing and simplifying ratio

Mock exams:

- Mock exams currently take place in Summer of year 10, and then in November and March of year 11.
- Full set of papers, graded using the actual grade boundaries.
- Students get a question-by-question breakdown of their result.
- Students can access videos to see how each question should have been answered.

Revision and support:

- It's never too early to revise.
- The best way to revise Maths is to do Maths.
- <https://corbettmaths.com/5-a-day/gcse/>
- [Mathsgenie.co.uk](https://www.mathsgenie.co.uk)
- SPAs take place every week. The timetable is available on Teams.
- Extra support sessions following assessments.
- Specific Revision pages on Teams in Year 11.
- Past paper sessions in Year 11

Looking ahead – A Levels:

- It is compulsory to study maths post-16 for anyone who does not achieve a standard pass.
- A grade 7 is required to study Further Maths.
- A grade 6 is required for Maths, Biology, Chemistry, Physics, and Computer Science.
- A grade 5 is required for Economics, Geography, Psychology, and PE*.
- A grade 4 is required for Business, Design and Technology, and IT.

What can parents do to support?

- Encourage your child to complete homework, ensuring they have time and space to do it.
- Check they have the correct equipment for lessons and assessments.
- Encourage them to attend SPAs if they need help.
- Maths workshop in the Summer term.