

## KS4 MATHEMATICS

Mrs Cohen  
Head of Mathematics

## GCSE

Edexcel 1380

No coursework

## TIERS

Tier	Grades
Foundation	C to G
Higher	A* to D

## ASSESSMENT

Foundation	Weighting	Time	Calculator
Paper 1	50%	1 h 30 min	No
Paper 2	50%	1 hr 30 min	Yes

Higher	Weighting	Time	Calculator
Paper 1	50%	1 h 45 min	No
Paper 2	50%	1 h 45 min	Yes

## DISTRIBUTION OF MARKS

Assessment objective	Weighting
Using and applying mathematics	20%
Number and algebra	50-55%
Shape, space and measures	25-30%
Handling data	18-22%


## NUMBER AND ALGEBRA

- Fractions, decimals, percentages
- Ratio and proportion
- Simultaneous equations
- Quadratic equations
- Straight line graphs
- Graphs of curves
- Algebraic fractions




## SHAPE, SPACE AND MEASURES

- Area, volume, surface area
- Pythagoras' Theorem
- Trigonometry
- Angles and bearings
- Circle theorems
- Constructions
- Transformations




## HANDLING DATA

- Collecting and representing data
- Interpreting charts and diagrams
- Calculating averages
- Cumulative frequency
- Probability



## FUNCTIONAL MATHS

- One lesson per week throughout years 10 and 11
- Year 10 and first term of year 11 will be used to enhance understanding of how maths is used in a variety of real life problem solving situations. ([Disaster relief.doc](#))
- The rest of year 11 will be used for extra revision and exam practice




**DISASTER RELIEF – Fractions, decimals, percentages, ratio and proportion**

In this unit, pupils are asked to plan the relief aid for a fictitious tsunami along the South-American Pacific coast. The project will be centred on Concepción, Chile's second largest urban conurbation. This was the scene of an actual tsunami in 1960, after an earthquake off the Chilean coast.


Pupils will consider a variety of facts and then use various strategies to establish how many people may be affected by the disaster, what food, water and shelter are needed and how it could all be transported.

There are clear cross-curricular links that could be made with geography in the introduction phase.



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## STATISTICS

Edexcel 1ST0

Higher Tier – Grades A\* to D

2 h exam - 75%

Controlled conditions task - 25%