



Mathematics Information Evening
1st October 2015

The New Mathematics GCSE 9-1

- Grades G to A* will be replaced by Grades 1 to 9.
- Linear examination only.
- Increased assessment time – at least 4½hrs in two or three exam papers.
- Broader and deeper mathematical content.
- Greater focus on problem solving and clear mathematical arguments.
- Less formulae available at the front of the examination papers.
- In other words – Harder!

Content changes



1. New topics added to GCSE
(both Foundation and Higher Tiers)
2. New topics added to Foundation Tier
(from Higher Tier)
3. New topics added to Higher Tier
(from A level)
4. A few topics omitted
(mostly now part of KS3)

Content domains



Domain	Weighting of marks	
	Foundation tier	Higher tier
Number	25%	15%
Algebra	20%	30%
Ratio, proportion and rates of change	25%	20%
Geometry and measures	15%	20%
Probability	15%	15%
Statistics		

Topics new to GCSE



- Quadratic sequences
- Frequency trees
- Simple error intervals (using inequality notation)
- Venn diagrams
- Know exact values for specified trig ratios
- Interpret gradient of a straight line as a rate of change

Topics new to Foundation Tier



- **Factorising quadratics**
- **Linear simultaneous equations**
- **Trigonometry**
- **Standard form**
- Compound interest
- Reverse percentages
- Circle properties
- Vectors
- Direct and inverse proportion
- ...

Topics new to Higher Tier



- **Gradient at a point on a curve as rate of change**
- **Areas under graphs**
- **Expanding binomials**
- APs and GPs
- Finding approximate solutions using iteration
- Solving quadratic inequalities
- Inverse and composite functions
- ...

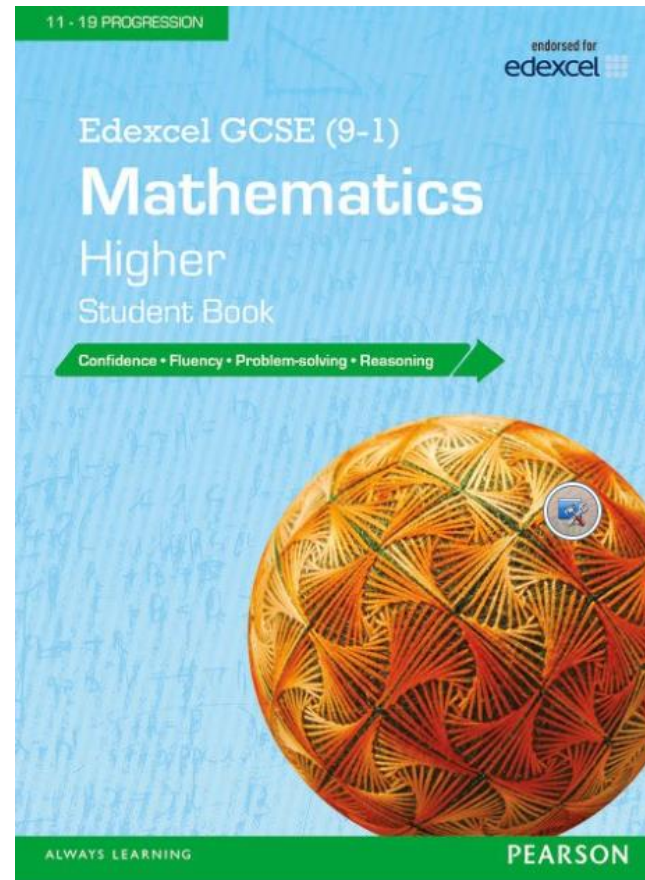
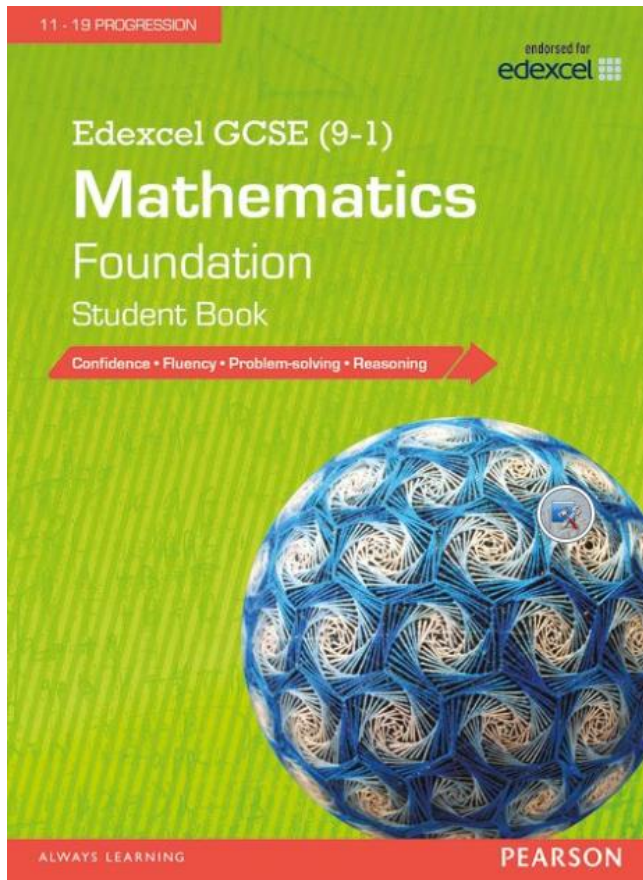
Key messages for Year 10

Mathematics



- Current Year 10 will be the first year group to take the new Mathematics GCSE 9-1 in 2017.
- Eaton Bank Academy students will be sitting the Edexcel examination. There's lots of information on their website.
<http://qualifications.pearson.com/en/qualifications/edexcel-gcses/mathematics-2015.html>
- There will be three 1½ hour papers.
- The minimum 33⅓% is non-calculator (i.e. one paper).
- Top sets will sit Higher exam.
- For other sets the tier of entry will be based on progress through Y10.

The new text book



New grading system

Grading the New GCSEs in 2017

Ofqual

NEW GCSE GRADING STRUCTURE									
9	8	7	6	5	4	3	2	1	U
<div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 20px;">←</div> <div style="border: 2px solid teal; border-radius: 50%; padding: 10px; text-align: center;"> <p>4 = C and above = and above</p> </div> <div style="margin-left: 20px;">→</div> </div>									
<ul style="list-style-type: none"> ■ Broadly the same proportion of students will achieve a grade 4 and above as currently achieve a grade C and above. ■ Broadly the same proportion of students will achieve a grade 7 and above as achieve an A and above. ■ The bottom of grade 1 will be aligned with the bottom of grade G. 									
A*		A	B	C	D	E	F	G	U
CURRENT GCSE GRADING STRUCTURE									

Further information

- Foundation tier covers topics from grade 1 to grade 5.
- Higher tier covers topics from grade 4 to grade 9.
- More content means more maths lessons. Students have one extra hour of maths per fortnight.