



# Maths at KS4

## Rivers ESC

KS4 Maths Teachers: Mrs Sarah Danaher / Mrs Lizzie Newman

1:1 Tutor (Core +): Mrs Keren Davis

Maths studies at Rivers ESC comprises of:

- ❖ Edexcel GCSE (1-9) -Level I (Grade 1 – 5) / Level II (Grade 3 - 9)
- ❖ Pearsons Functional Skills Level I and II

# Course Specifications Maths GCSE

GCSE Mathematics involves the study of mathematical methods, with some practical applications. It aims to develop students' skills in problem-solving and analytical thinking. It also aims to provide all students with a firm mathematical foundation that they will need for life, work, and further study.



<b>Pearson Edexcel Level 1/Level 2 GCSE (9–1) in Mathematics</b>
<ul style="list-style-type: none"><li>• The assessments will cover the following content headings:<ol style="list-style-type: none"><li>1 Number</li><li>2 Algebra</li><li>3 Ratio, proportion and rates of change</li><li>4 Geometry and measures</li><li>5 Probability 6 Statistics</li></ol></li><li>• Two tiers are available: Foundation and Higher (content is defined for each tier).</li><li>• Each student is permitted to take assessments in either the Foundation tier or Higher tier.</li><li>• The qualification consists of three equally-weighted written examination papers at either Foundation tier or Higher tier.</li><li>• All three papers must be at the same tier of entry and must be completed in the same assessment series.</li><li>• Paper 1 is a non-calculator assessment and a calculator is allowed for Paper 2 and Paper 3.</li><li>• Each paper is 1 hour and 30 minutes long.</li><li>• Each paper has 80 marks.</li><li>• The content outlined for each tier will be assessed across all three papers.</li><li>• Each paper will cover all Assessment Objectives, in the percentages outlined for each tier. (See the section <i>Breakdown of Assessment Objectives</i> for more information.)</li><li>• Each paper has a range of question types; some questions will be set in both mathematical and non-mathematical contexts.</li><li>• See <i>Appendix 3</i> for a list of formulae that can be provided in the examination (as part of the relevant question).</li><li>• Two assessment series available per year: May/June and November*.</li><li>• First assessment series: May/June 2017.</li><li>• The qualification will be graded and certificated on a nine-grade scale from 9 to 1 using the total mark across all three papers where 9 is the highest grade. Individual papers are not graded.</li><li>• Foundation tier: grades 1 to 5.</li><li>• Higher tier: grades 4 to 9 (grade 3 allowed).</li></ul>

Further information regarding curriculum content and topic areas please click on the link below:

<https://qualifications.pearson.com/content/dam/pdf/GCSE/mathematics/2015/specification-and-sample-assessment/gcse-maths-2015-specification.pdf>

# Functional Skills

What are Functional Skills qualifications? Functional Skills qualifications provide reliable evidence of a learner's achievements against demanding content that is relevant to the workplace. The qualifications assess learners' underpinning subject knowledge and their ability to apply this knowledge to different contexts. They provide a foundation for progression to employment and further technical education, and they help learners to develop skills for everyday life. Exams are taken throughout the year and are now paper based.

Each assessment comprises two sections – a non-calculator section (calculator prohibited) and a calculator section (calculator permitted).

## Pearson Edexcel Functional Skills Qualification in Mathematics at Level 1

Assessment structure	Duration	Number of marks	Percentage of qualification
Section A: Non-calculator	25 minutes	14	25%
Section B: Calculator	1 hour 30 minutes	42	75%
<b>Content areas</b>			
Using numbers and the number system – whole numbers, fractions, decimals and percentages			
Using common measures, shapes and space			
Handling information and data			

## Pearson Edexcel Functional Skills Qualification in Mathematics at Level 2

Assessment structure	Duration	Number of marks	Percentage of qualification
Section A: Non-calculator	25 minutes	16	25%
Section B: Calculator	1 hour 30 minutes	48	75%
<b>Content areas</b>			
Using numbers and the number system – whole numbers, fractions, decimals and percentages			
Using common measures, shapes and space			
Handling information and data			

For further information regarding Functional Skills Please click the link below:

<https://qualifications.pearson.com/content/dam/pdf/Functional-skills/Mathematics/2019/specification-and-sample-assessments/pearson-edexcel-functional-skills-in-maths-spec-l1-l2.pdf>

## Revision Websites

Useful websites - free online resources for independent study/ homework support:

Mathswatch - <https://vle.mathswatch.co.uk/vle/>

Username: (child's name and then riversesc) E.g Joe Bloggs would be jbloggs@riversesc

Password: Rivers 123

Maths genie - <https://www.mathsgenie.co.uk/>

Maths box - <https://www.mathsbox.org.uk/index1.php>

On maths - <https://www.onmaths.com/>

BBC Bitesize - <https://www.bbc.co.uk/bitesize/examspecs/z9p3mnb>