

# Shoeburyness High School

## Sixth Form Subject Information

# Core Maths

## *Level 3 Certificate*



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## Subject Information

The purposes of this qualification are to:

- consolidate and build on students' mathematical understanding, and develop further mathematical understanding and skills in the application of mathematics to authentic problems
- build a broader base of mathematical understanding and skills in order to support the mathematical content in other Level 3 qualifications, for example GCE A Level Biology, Business Studies, Economics, Computing, Geography, Psychology, BTEC Applied Science, Business, Health and Social Care, IT
- provide evidence of students' achievements against demanding and fulfilling content, to give them the confidence that the mathematical skills, knowledge and understanding they will acquire during the course of their study are as good as that of the highest-performing jurisdictions in the world
- prepare students for the range of varied contexts that they are likely to encounter in vocational and academic study, future employment and life.

### Qualification aims and objectives

The aims and objectives of the Pearson Edexcel Level 3 Certificate in Mathematics in Context are to enable students to:

- develop competence in the selection and use of mathematical methods and techniques
- develop confidence in representing and analysing authentic situations mathematically, and in applying mathematics to address related questions and issues
- build skills in mathematical thinking, reasoning and communication.



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## Edexcel Exam Board Assessment Structure:

Paper 1: Comprehension <span style="float: right;">*Paper code: 7MC0/01</span>	Paper 2: Applications <span style="float: right;">*Paper code: 7MC0/02</span>
<ul style="list-style-type: none"> <li>Externally assessed</li> <li>Availability: May/June</li> <li>First assessment: 2016</li> </ul>	<ul style="list-style-type: none"> <li>Externally assessed</li> <li>Availability: May/June</li> <li>First assessment: 2016</li> </ul>
<p style="text-align: right;"><b>40% of the total qualification</b></p> <p><b>Overview of content</b></p> <p>This paper will examine the following content areas:</p> <ul style="list-style-type: none"> <li>applications of statistics</li> <li>probability</li> <li>linear programming</li> <li>sequences and growth.</li> </ul>	<p style="text-align: right;"><b>60% of the total qualification</b></p> <p><b>Overview of content</b></p> <p>This paper will examine the following content areas:</p> <ul style="list-style-type: none"> <li>applications of statistics</li> <li>probability</li> <li>linear programming</li> <li>sequences and growth.</li> </ul>
<p><b>Overview of assessment</b></p> <ul style="list-style-type: none"> <li>Written examination paper with two sections, A and B, and a source booklet.</li> <li>The source booklet will detail two real-life contexts. These contexts will be assessed in the written paper, which requires students to comprehend, interpret and analyse the content in order to answer the questions. One context will be assessed in Section A and the other context will be assessed in Section B. Students will need to refer to the source booklet when answering the questions.</li> <li>The source booklet will be available for centres to download from our website (<a href="http://qualifications.pearson.com">qualifications.pearson.com</a>) no later than 15 April for the examinations in May/June of that year. A 'clean' copy will be provided in the examination. Students must not bring their copy into the examination.</li> <li>A calculator is allowed.</li> <li>Assessment duration is 1 hour and 40 minutes.</li> <li>The paper consists of 60 marks.</li> <li>A formulae sheet is given at the front of the source booklet and in <i>Appendix 3</i>.</li> </ul>	<p><b>Overview of assessment</b></p> <ul style="list-style-type: none"> <li>Written examination paper with two sections, A and B, and a source booklet.</li> <li>The source booklet will detail one themed task in Section A – this will be the same as one of the contexts provided in Paper 1. Students will need to refer to the source booklet when answering the question. Section B will contain three tasks, each of which has a separate theme. The four themes will be assessed in the written paper, which requires students to apply their problem-solving skills in order to answer the questions.</li> <li>A calculator is allowed.</li> <li>The assessment duration is 1 hour and 40 minutes.</li> <li>The paper consists of 80 marks.</li> <li>A formulae sheet is given at the front of the source booklet and in <i>Appendix 3</i>.</li> </ul>



## Why should you study this course?

Core Maths is a highly valued qualification, both for Universities and employers.

Universities will often make you a lower offer if you have a good Core Maths qualifications

Employers value mathematical and problem solving skills which are developed by this course



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## Why should you study this course?

Many A-Level subjects have a significant mathematical component – if you are studying any of these subjects, you should also study Core Maths to support your work:

**Biology**

**Chemistry**

**Physics**

**Psychology**

**Geography**

**IT**

Core Maths also supports work in other subjects



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## Entry requirements

**Pathway 2 entry requirements:** 5 GCSEs at Grade 5 and above

**Subject entry requirements:** Grade 4 at GCSE in Mathematics.

N.B: A large portion of content in the course is higher-tier GCSE material.



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## Career Progression

Furthering your knowledge in Mathematics with Core Maths will give you a great advantage over your competition that did not choose to take their GCSE-Level mathematical skills further. Not only will you develop an array of truly applicable skills, you may gain the qualifications necessary to take your understanding of Mathematics further into the following careers:

- accountant
- actuary
- computer programmer
- doctor
- engineer
- investment manager
- lawyer
- government research and laboratories
- theoretical mathematician



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## University progression

*Paul Glaister, Professor of Mathematics and Mathematics Education in the Department of Mathematics and Statistics at the University of Reading:*

“With a total of 44 universities, showing their support for Core Maths, the emphasis and awareness of Core Maths is growing. Having toured the country briefing senior university and faculty staff in admissions and departments, I can rightly claim that Core Maths will meet the needs of their students and that they are universally impressed by the qualifications.

Despite recent progress, participation in mathematics post-16 remains low in comparison to many other countries. However, there is a strong case that mathematical and quantitative skills are important for students' future study and career.

Core Maths plays a vital part in this as there is a strong focus on problem-solving, reasoning and the practical application of mathematics and statistics. This new qualification has been designed with the support and help of employers and universities to suit students with a range of pass grades at GCSE mathematics and provide them with the quantitative skills now needed in a wide range of jobs.”

***Also many universities are now making lower offers for students who have studied CORE Maths in sixth form.***



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## Contact Information

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