

Subject: <b>Mathematics</b>		Year Group: <b>10</b>
<b>Term 1 Key Focus/Topic(s)</b> <ul style="list-style-type: none"> <li>Unit 14 – Further Statistics</li> <li>Unit 8 – Transformations and Constructions</li> </ul>	<b>Term 2 Key Focus/Topic(s)</b> <ul style="list-style-type: none"> <li>Unit 8 – Transformations and Constructions</li> <li>Unit 9 – Equations and Inequalities</li> <li>Unit 10 - Probability</li> </ul>	<b>Term 3 Key Focus/Topic(s)</b> <ul style="list-style-type: none"> <li>Unit 10 – Probability</li> <li>Unit 11 – Multiplicative Reasoning</li> </ul>
<b>Term 1 Assessment Opportunities:</b> <ul style="list-style-type: none"> <li>Unit 14 Test</li> </ul>	<b>Term 2 Assessment Opportunities:</b> <ul style="list-style-type: none"> <li>Unit 8 Test</li> <li>Unit 9 Test</li> </ul>	<b>Term 3 Assessment Opportunities:</b> <ul style="list-style-type: none"> <li>Unit 10 Test</li> <li>Unit 11 Test</li> </ul>
<b>Term 4 Key Focus/Topic(s)</b> <ul style="list-style-type: none"> <li>Unit 12 – Similarity and Congruence</li> <li>Unit 13 – More Trigonometry</li> </ul>	<b>Term 5 Key Focus/Topic(s)</b> <ul style="list-style-type: none"> <li>Revision</li> <li>End of Year Examinations</li> <li>Unit 13 – More Trigonometry</li> </ul>	<b>Term 6 Key Focus/Topic(s)</b> <ul style="list-style-type: none"> <li>Unit 13 – More Trigonometry</li> <li>Unit 15 – Equations and Graphs</li> </ul>
<b>Term 4 Assessment Opportunities:</b> <ul style="list-style-type: none"> <li>Unit 12 Test</li> </ul>	<b>Term 5 Assessment Opportunities:</b> <ul style="list-style-type: none"> <li>End of Year Examinations</li> </ul>	<b>Term 6 Assessment Opportunities:</b> <ul style="list-style-type: none"> <li>Unit 13 Test</li> <li>Unit 15 Test</li> </ul>

#### **Aims and objectives:**

The aims and objectives of the Pearson Edexcel GCSE (9–1) in Mathematics are to enable students to:

- develop fluent knowledge, skills and understanding of mathematical methods and concepts
- acquire, select and apply mathematical techniques to solve problems
- reason mathematically, make deductions and inferences, and draw conclusions
- comprehend, interpret and communicate mathematical information in a variety of forms appropriate to the information and context.

#### **Rationale:**

The Pearson Edexcel GCSE (9–1) in Mathematics will:

- provide evidence of students' achievements against demanding and fulfilling content, to give students the confidence that the mathematical skills, knowledge and understanding that they will have acquired during the course of their study
- provide a strong foundation for further academic and vocational study and for employment, to give students the appropriate mathematical skills, knowledge and understanding to help them progress to a full range of courses in further and higher education. This includes Level 3 Mathematics courses as well as Level 3 and undergraduate courses in other disciplines such as Biology, Geography and Psychology, where the understanding and application of Mathematics is crucial.

#### **Assessment & Evaluation:**

- Students' work may be teacher, self and peer assessed and independent work is to be reviewed in line with departmental and school policy. Exercise books are to be collected in once per fortnight and marked by the teacher who is to give constructive feedback where appropriate.
- End of topic tests are to be done under exam conditions, teacher assessed and marks entered onto the appropriate departmental Google Doc for comparisons, and quality assurance in order to monitor the progress of the students in each group as well as across the board by the Head of Department. Periodically, moderation of marking takes place during department meetings which further enhances the quality assurance that mark schemes are being applied consistently.

- Opportunities for teacher feedback can be from individual conversations regarding independent work and end of topic tests. With regard to end of topic tests teachers are to feedback using WWW and EBI with students adding their MRI in response.

**Assessment:**

At the End of Year examination period pupils will sit three 1 hour written examinations of equal weighting:

- Paper 1 (Non-calculator)
- Paper 2 (Calculator)
- Paper 3 (Calculator)

**Resources:**

- Edexcel GCSE (9-1) Mathematics Higher Practice, Reasoning and Problem Solving Book
- Scientific calculator (Casio Classwiz is recommended)
- MyMaths
- Various subject specific websites such as Dr Frost, Just Maths, NCETM, etc.
- Assessment folders.

**GCSE Pod Resources:**

- Unit 14 – Further Statistics  
<https://members.gcsepod.com/shared/playlists/playlist/1729180>
- Unit 8 – Transformations and Constructions  
<https://members.gcsepod.com/shared/playlists/playlist/1729170>
- Unit 9 – More Algebra  
<https://members.gcsepod.com/shared/playlists/playlist/1729186>
- Unit 10 – Probability  
<https://members.gcsepod.com/shared/playlists/playlist/1729173>
- Unit 11 – Multiplicative Reasoning  
<https://members.gcsepod.com/shared/playlists/playlist/1729188>
- Unit 12 – Similarity and Congruence  
<https://members.gcsepod.com/shared/playlists/playlist/1729175>
- Unit 13 – More Trigonometry  
<https://members.gcsepod.com/shared/playlists/playlist/1729176>
- Unit 15 – Equations and Graphs  
<https://members.gcsepod.com/shared/playlists/playlist/1729194>