

Subject: <b>Mathematics</b>		Year Group: <b>9</b>
<b>Term 1 Key Focus/Topic(s)</b> <ul style="list-style-type: none"> <li>Unit 1 – Number</li> <li>Unit 2 – Algebra</li> </ul>	<b>Term 2 Key Focus/Topic(s)</b> <ul style="list-style-type: none"> <li>Unit 2 – Algebra</li> <li>Unit 3 – Interpreting and Representing Data</li> </ul>	<b>Term 3 Key Focus/Topic(s)</b> <ul style="list-style-type: none"> <li>Unit 3 – Interpreting and Representing Data</li> <li>Unit 4 – Fractions, Ratios &amp; Percentages</li> <li>Unit 5 – Angles and Trigonometry</li> </ul>
<b>Term 1 Assessment Opportunities:</b> <ul style="list-style-type: none"> <li>Unit 1 Test</li> </ul>	<b>Term 2 Assessment Opportunities:</b> <ul style="list-style-type: none"> <li>Unit 2 Test</li> </ul>	<b>Term 3 Assessment Opportunities:</b> <ul style="list-style-type: none"> <li>Unit 3 Test</li> <li>Unit 4 Test</li> </ul>
<b>Term 4 Key Focus/Topic(s)</b> <ul style="list-style-type: none"> <li>Unit 5 – Angles and Trigonometry</li> <li>Unit 6 – Graphs</li> </ul>	<b>Term 5 Key Focus/Topic(s)</b> <ul style="list-style-type: none"> <li>Unit 6 – Graphs</li> <li>Revision</li> </ul>	<b>Term 6 Key Focus/Topic(s)</b> <ul style="list-style-type: none"> <li>End of year examinations</li> <li>Unit 7 – Area and Volume</li> </ul>
<b>Term 4 Assessment Opportunities:</b> <ul style="list-style-type: none"> <li>Unit 5 Test</li> </ul>	<b>Term 5 Assessment Opportunities:</b> <ul style="list-style-type: none"> <li>Unit 6 Test</li> </ul>	<b>Term 6 Assessment Opportunities:</b> <ul style="list-style-type: none"> <li>End of year examinations</li> <li>Unit 7 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 meets the following purposes:

- 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 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 departmental 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 ½ 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 1 – Number  
<https://members.gcsepod.com/shared/podcasts/title/10215>  
<https://members.gcsepod.com/shared/podcasts/title/10210>
- Unit 2 – Algebra  
<https://members.gcsepod.com/shared/podcasts/title/10187>  
<https://members.gcsepod.com/shared/podcasts/title/10190>
- Unit 3 – Interpreting and Representing Data  
<https://members.gcsepod.com/shared/podcasts/title/10221>  
<https://members.gcsepod.com/shared/podcasts/title/10217>
- Unit 4 – Fractions, Ratio and Percentages  
<https://members.gcsepod.com/shared/podcasts/title/10216>  
<https://members.gcsepod.com/shared/podcasts/title/10214>
- Unit 5 – Angles and Trigonometry  
<https://members.gcsepod.com/shared/podcasts/title/10198>  
<https://members.gcsepod.com/shared/podcasts/title/10204>
- Unit 6 – Graphs  
<https://members.gcsepod.com/shared/podcasts/title/10192>  
<https://members.gcsepod.com/shared/podcasts/title/10194>
- Unit 7 – Area and Volume