## Subject: Mathematics

### Year 13

<table>
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<tr>
<th>AQA Specification 7357</th>
<th>Scheme of Learning Autumn Term</th>
<th>Scheme of Learning Spring Term</th>
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| **A01** Use and apply standard techniques (50%) | **Part 1**  
1. Forces and Motion  
2. Trigonometry  
3. Sequences and Series  
4. Functions  
5. Differentiation | **Recap and Revision For Mocks**  
**Part 3**  
1. Parametric Equations  
2. Differential Equations  
3. Kinematics  
4. Moments ad Forces  
5. Projectiles  
6. Friction | 5. Vectors  
6. Numerical Methods  
**Recap and Revision For Exams** |
| **A02** Reason, interpret and communicate mathematics (25%) | **Part 2**  
1. Trigonometric Functions  
2. Further Algebra  
3. Trigonometric Identities  
4. Further Differentiation  
5. Further Integration | **Part 4**  
1. Probability  
2. Statistical Distributions  
3. Hypothesis Testing  
4. Proof | |
| **A03** Solve problems within mathematics and in other contexts (25%) | **Assessment Pieces**  
Part 1 Test | **Assessment Pieces**  
MOCKS – Based on all Year 12 plus Year 13 Part 1 and 2  
**Part 3 Test** | **Assessment Pieces**  
External Examinations |

### Key vocabulary

#### Outside the taught curriculum

- Dr Frost Maths website, MEI Integral resources - individual login, Maths Support, UKMT Maths Challenge and Puzzles club

### Suggested reading

- Algorithmic Puzzles by Anany & Maria Levitin (Age 16+)
- The Great Mathematical Problems by Ian Stewart (Age 17+)
- How to Think Like a Mathematician by Kevin Houston (Age 17+)