# Curriculum and Assessment Map 2019-2020

**Subject: Further Mathematics**  
**Subject Leader:** Mrs L Osborne  
**email:** losborne@kingedwardvi.bham.sch.uk

## Year 13

<table>
<thead>
<tr>
<th>Core Pure (50%) + Mechanics, Statistics, Modelling with Algorithms Minors (16.1%)</th>
<th>Scheme of Learning</th>
<th>Scheme of Learning</th>
<th>Scheme of Learning</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEI Further Mathematics (B) Specification H645</td>
<td>Autumn Term</td>
<td>Spring Term</td>
<td>Summer Term</td>
</tr>
</tbody>
</table>
| **A01** Use and apply standard techniques (50% in all papers) | Pure  
Recap of parts 1 – 3 done end y12  
4. Induction and Series  
5. Polar  
6. Complex  
7. Maclaurin Series  
8. Further Calculus  
9. Applications of Integration | Recap and Revision for Mocks | Pure  
12. Vectors |
| **A02** Reason, interpret and communicate mathematics (30% in Core Pure, 15% in Mechanics, 20% in Statistics and Modelling) | Mechanics  
1. Friction  
2. Moments  
3. Energy | | Recap and Revision for Exams |
| **A03** Solve problems within mathematics and in other contexts (20% in Core Pure, 35% in Mechanics, 30% in Statistics and Modelling) | | | |

### Assessment Pieces

| Pure Test – Parts 1 – 6  
Mechanics 1 + 2 + Stats (y12) Test | MOCKS – Year 12 and 13 content  
Mechanics Paper | |

### 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+)