**SUBJECT: Mathematics Year 11F 2019 2020**

| | Topic | Assessment |
|---|---|---|
| Autumn Term 1 | REVISION - REVIEW & RECAP<br>Use of Year 10 Mock Exam Question and Analysis to deliver bespoke curriculum to each class | Progress Check 1 w/c 24/09/19<br>*MILESTONE 1 w/c 08/10/19 |
| Autumn Term 2 | REVISION - REVIEW & RECAP<br>Use of Year 10 Mock Exam Question and Analysis to deliver bespoke curriculum to each class | Progress Check 2 w/c 05/11/19 |
| Spring Term 1 | REVISION FOR TRIAL EXAMS<br>Practice Papers and Exam Technique | TAIL EXAMS w/c 13/01/20 |
| Spring Term 2 | REVISION - REVIEW & RECAP<br>Use of Trial Exam Question and Analysis to deliver bespoke curriculum to each class<br>Practice Papers and Exam Technique | Progress Check 3 w/c 21/01/20<br>*MILESTONE 3 MOCKS w/c 04/03/20 |
| Summer Term 1 | REVISION<br>Practice Papers and Exam Technique | EXTERNAL EXAMS BEGIN (provisional dates)<br><br>AQA Paper 1: Tuesday 19th May 2020 a.m. |
| Summer Term 2 | REVISION<br>Practice Papers and Exam Technique | EXTERNAL EXAMS CONTINUE (provisional dates)<br><br>AQA Paper 2: Thursday 4th June 2020 a.m.<br>AQA Paper 3: Monday 8th June 2020 a.m. |

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## Additional Topics (*denotes new foundation tier content grade 4/5)

**Volume**

- Compare lengths, areas and volumes using ratio notation
- scale factors
- Make links to similarity
- Know and apply formulae to calculate the volume of cuboids and other right prisms (including cylinders)
- Calculate the volume of spheres, pyramids, cones and composite solids
- Calculate exactly with multiples of `pi`

**Algebra: quadratics, rearranging formula and identities**

- Simplify and manipulate algebraic expressions (including those involving surds) by:
- expanding products of two binomials
- factorising quadratic expressions of the form $x^2 + bx + c$` including the difference of two squares
- simplifying expressions involving sums, products and powers, including the laws of indices
- Understand and use standard mathematical formulae
- Rearrange formulae to change the subject
- Know the difference between an equation and an identity
- Argue mathematically to show algebraic expressions are equivalent, and use algebra to support and construct arguments
- Where appropriate, interpret simple expressions as functions with inputs and outputs

**Inequalities**

- Solve linear inequalities in one variable
- Represent the solution set on a number line

**Algebra and graphs**

- Solve linear equations in one unknown algebraically
- Including those with the unknown on both sides of the equation
- Find approximate solutions using a graph
- Translate simple situations into algebraic expressions or formulae
- derive an equation (or two simultaneous equations), solve the equation(s) and interpret the solution

$\sin\theta = \frac{opposite}{hypotenuse}$, $\cos\theta = \frac{adjacent}{hypotenuse}$ and $\tan\theta = \frac{opposite}{adjacent}$ for $\theta =$

**Trigonometry**

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