



## Bishop Challoner Catholic College Maths Department

### Year 10 Summer Assessments 2025: Higher Revision List

**Assessment 1 (Calculator):** Monday 2<sup>nd</sup> June

**Assessment 2 (Non-Calculator):** Thursday 5<sup>th</sup> June

It is recommended that you use your class notes and <https://vle.mathswatch.co.uk/vle/> to help with your revision. Below are the clips that are relevant to the topics that are to be tested.

Your username is the same as the beginning of your email address:

**21aaabbb@bishopchalloner** where **aaa** are the first 3 letters of your first name, and **bbb** are the first 3 letters of your surname. Password is **bishop**

When you log in, click on videos, and select the qualification as 'GCSE'.

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| Equipment required for mock: Calculator, ruler, pen and pencil |
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### Calculator Topic List (80 marks)

| Topic  | Mathswatch | Revised? |
|--|------------|----------|
| Expanding & simplifying expressions              | 93         |          |
| Linear simultaneous equations                    | 162        |          |
| Percentage increase and decrease                 | 108        |          |
| Highest common factor and lowest common multiple | 79, 80     |          |
| Simplifying algebraic indices                    | 82         |          |
| Solving equations involving fractions            | 135a       |          |
| Angles in polygons                               | 123        |          |
| Averages from frequency tables                   | 130a/b     |          |
| Two-way tables                                   | 61         |          |
| Quadratic graphs including sketching and solving | 98, 160    |          |
| Finding equations of lines                       | 159a,b     |          |

| Topic                                   | Mathswatch | Revised? |
|---|------------|----------|
| Application of ratio and percentages    | 165a       |          |
| Recurring decimals to fractions         | 189        |          |
| Solving problems with compound interest | 164        |          |
| Probability tree diagrams               | 151,175    |          |
| Drawing and interpreting histograms     | 205        |          |
| Calculations with bounds                | 132, 206   |          |
| Box plots                               | 187        |          |
| Spheres                                 | 169        |          |
| Compound Units                          | 142        |          |
| Calculator Questions                    | 77         |          |
| Equations of circles                    | 197        |          |

## **Non-Calculator Topic List (50 marks)**

| Topic   | Mathswatch        | Revised? |
|---|-------------------|----------|
| Sequences   | 37, 102, 103      |          |
| Quadratic graphs                                      | 98                |          |
| Prime factor decomposition                            | 78                |          |
| Equations of perpendicular lines                      | 208               |          |
| Standard form conversions & calculations              | 83                |          |
| Angles in parallel lines                              | 120               |          |
| Fraction arithmetic                                   | 71-74             |          |
| Percentage change                                     | 109               |          |
| Capture recapture                                     | 152               |          |
| Cumulative frequency diagrams                         | 186               |          |
| Combining ratios                                      | 165c              |          |
| Subdividing ratios                                    | 165b              |          |
| Stem and leaf diagrams                                | 128b              |          |
| Index laws, including negative and fractional indices | 82, 131, 154, 188 |          |
| Rearranging formulae                                  | 136, 190          |          |
| Cubic and reciprocal graphs                           | 161               |          |