**TOPIC TWO: MEASUREMENT**

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| Week | **Monday Block 1** | **Thursday Block 2** | WORK |
| 9  28/03 | EASTER  MONDAY | **Measurement review**   * Measuring devices * Metric system conversion   **Accuracy of measurements**  **\*** Estimating and approximation  \* Rounding to significant figures  ( Need to revisit scientific notation) | Students will need to revisit and those who get it move through work atown pace  TEXT  Mathematical Applications Year 11  Exercise 2B  Q 1 - 6  Exercise 2C  Q 1- 4 (15 minutes)  Exercise 2 D  Q 1- 8 (15 Minutes) |
| 10  04/04 | **Pythagoras’ theorem Review**  a) Finding the length of hypotenuse  b) Finding the length of the short sides | **Perimeter of standard and composite shapes including circles, sectors, quadrilaterals and triangles.** | Monday  Review of Pythagoras from Year 9 & 10  Text  Exercise 6 A  Q 1,2 7, 9 & 10  Thursday including home-study  Exercise 2 H  Q 1, 2, 3, 7, -- 9, 10, 14 |
| 11  11/04 | **Problems-based skills practice**  Perimeter and Pythagoras’ theorem | **AREA**  Review Area units and their conversion  Area of standard and composite shapes including circles, sectors, ovals, trapeziums and triangles  Area of standard and composite shapes  Problems-based skills practice. | Monday  Hand out Perimeter Worksheet to be completed and submitted to you by Friday.  Thursday  Collect and handout Area and Volume Rule Sheet.  Exercise 2I  Q 2, 3, 4. 7.  Heron’s Formula/Rule  Q 11, 13 |
| 1  02/05 | **SURFACE AREA**  *Collect and handout Area and Volume Rule Sheet*  Calculating the surface area of standard and composite solids including prisms, pyramids, cones, cylinders and spheres | **SURFACE AREA**  Approximating areas of irregular shapes using Simpson’s rule.  Approximating areas of irregular shapes using simple shapes | Monday  Exercise 2I  Q 14, 16, 17, 19, 22, 23 & 24  Thursday  Exercise 2I  Q 25 , 27  Introduction to Simpson’s Rule Task  Extension with Spreadsheets Q 29, 30 |
| 2  09/05 | **VOLUME**  Calculating the volume of standard and composite solids including prisms, pyramids, cones, cylinders and spheres | **VOLUME**  Calculating volume and capacity   * Units and how to convert between them * Connection between volume and capacity and conversion between them   **Problems-based skills practice**  Irregular volume calculations   * Prismatic model * Conical model   **MATHEMATICAL INVESTIGATION 1**  **Issued** | Monday  Exercise 2J  Q 4 a),b),c) g),h),i)  Q 5 a), e), i)  Q7,Q11  Thursday  Exercise 2J  Q 16, Q17, Q19, Q21 |
| 3  16/05 | Scale   * How does a scale factor work * Calculating actual lengths and scaled measurements   Scale   * Drawing scaled diagrams * Determining scale factor | * REVISION | Monday  Exercise 2 F  Q1, Q2, Q3  Thursday  Selected questions from Review set 2 |
| 4  23/05 | TEST |  |  |