# Mathematics Curriculum Area Plan

## Measurement and Geometry

### Sample Program – Years 7 to 10

|  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | **Approximate hours of teaching** | **3** | **6** | **9** | **12** | | **15** | | **18** | **21** | **24** | **27** |
| **Year 7** | **Semester 1** | **Angles, lines and shapes - 7.1.3** | | | **Length and area - 7.1.4** | | | | |  |  |  |
| Sub-strand: Geometric reasoning | | | Sub-strand: Using units of measurement | | | | |  |  |  |
| **Semester 2** | **Coordinates, graphs and transformations 7.2.5** | | | **Time and money - 7.2.6** | | | | **Solids, volume, capacity and mass - 7.2.7** | | |  |
| Sub-strand: Location and transformation | | | Sub-strand: Using units of measurement | | | | Sub-strand: Using units of measurement; Shape | | |  |
| *(See number and algebra)* | | | *(See number and algebra)* | | | |
| **Year 8** | **Semester 1** | **Properties of plane shapes - 8.1.3** | | | **Measurement: time and shapes - 8.1.4** | | | | |  |  |  |
| Sub-strand: Geometric | | | Sub-strand: Using units of measurement | | | | |  |  |  |
| **Semester 2** | **Angles, polygons and solids - 8.2.3** | | **Volume and surface area**  **8.2.5** | | |  | |  |  |  |  |
| Sub-strand: Geometric reasoning | | Sub-strand: Using units of measurement | | |  | |  |  |  |  |
| **Year 9** | **Semester 1** | **Pythagoras’ theorem - 9.1.2** | | | **Similarity and trigonometric ratios - 9.1.7** | | | | |  |  |  |
| Sub-strand: Pythagoras and trigonometry | | | Sub-strand: Geometric reasoning; Pythagoras and trigonometry | | | | |  |  |  |
| **Semester 2** | **Applications of trigonometry - 9.2.1** | | | **Shapes, prisms and cylinders - 9.2.4** | | | | |  |  |  |
| Sub-strand: Pythagoras and trigonometry | | | Sub-strand: Using units of measurement | | | | |  |  |  |
| **Year 10** | **Semester 1** | **Measurement - 10.1.1** | | |  | |  | |  |  |  |  |
| Sub-strand: Using units of measurement | | |  | |  | |  |  |  |  |
| **Semester 2** | **Trigonometry - 10.2.2** | | | **Geometry - 10.2.3** | | | | |  |  |  |
| Sub-strand: Pythagoras and trigonometry | | | Sub-strand: Geometric reasoning | | | | |  |  |  |
|  | **Approximate hours of teaching** | **3** | **6** | **9** | **12** | | **15** | | **18** | **21** | **24** | **9** |
| **Key** | | **Measurement and Geometry sub-strand** | | | |  | | **Topic, level, semester and sequence** | | | | |