# Mathematics Curriculum Area Plan

## Measurement and Geometry

### Sample Program – Years 7 to 10

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **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** |