|  |  |
| --- | --- |
| **Unit A5** **Graphs** | **Year 7 Road Map** |
| In this unit you will learn about graphs. **S**: Support**C**: Core**E**: Extension |  |
| **Differentiation** | **Learning Goals/Outcomes/Content** |  |  |  |
| S  | Plot and reading coordinates in all four quadrants (A2.2, A3.3) |  |  |  |
| S C | Identify the coordinates of midpoint of line segment (when it is drawn on a square grid)  |  |  |  |
| S C E | Calculate the coordinates of the midpoints of a line segment when coordinates are given |  |  |  |
| S C E | Use properties of shapes to work out missing coordinates of a 2D shape (A6.2) |  |  |  |
| S C E | Interpret and draw conversion graphs (A3.4) |  |  |  |
|  C E | Complete tables of values, Plot and drawing straight line graphs using table of values (A3.3/4, A4.3) |  |  |  |
|  E | Calculate the gradient and y-intercept of straight-line graphs (A4.3, A5.5) |  |  |  |
|  C E | Sketching linear graphs using the gradient and the y-intercept (A4.3, A5.3, A5.5, A6.2) |  |  |  |
|  E | Work out equation of straight lines when either coordinates of two points are given or from a drawn graph (A4.3) |  |  |  |
|  C E | Interpret real-life graphs (A4.3) |  |  |  |
| S C E | Using ICT to draw graphs (A3.3, A5.3, A6.4) |  |  |  |
| S C E | Solve unstructured problems involving drawing graphs |  |  |  |