**** **Mathematics Faculty**

**Year 8 Spring Term 2 – Delta Scheme**

**Unit 7 Overview – Angles and Constructions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Angles and Constructions** | I can understand and use angle notation. |  |  |  |
| I can construct triangles accurately given sides and angles. |  |  |  |
| I can calculate right angles, angles on a line, angles on a point and vertically opposite angles. |  |  |  |
| I can calculate missing angles in triangles and quadrilaterals. |  |  |  |
| I can calculate interior and exterior angles of polygons. |  |  |  |
| I can calculate angles in parallel and intersecting lines. |  |  |  |
| I can find missing sides in right-angled triangles. |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | **Constructing ASA, SAS and SSS triangles** (CM clips 81, 82 & 83) | Formative assessment strategies e.g. MWBs, whole class questioning, Diagnostic Questions, SLOP time with self-assessment, Live Marking etc.  Assessment is also supported with our use of ILOs, set through Century Learning and Corbettmaths.  Finally, units are assessed through skills checks and half termly assessments, as part of our Assessment Calendar in Mathematics. | triangle, angle, draw, construct,  protractor, acute, obtuse |
| **2** | Solving problems involving right angles, angles on a straight line, angles at a point and vertically opposite angles (CM clips 34, 35, 30 & 39) | right angle, straight line, point,  vertically opposite |
| **3** | Calculate missing angles in triangles and special triangles (CM clip 37) | triangle, calculate, angle, acute, obtuse, reflex, scalene, isosceles, equilateral |
| **4** | Calculating missing angles in quadrilaterals and special quadrilaterals (CM clip 33) | quadrilateral, calculate, angle, right angle, square, rectangle, parallelogram, rhombus, kite, trapezium |
| **5** | Calculating exterior angles of polygons (CM clip 32) | angle, degrees, regular, exterior, polygon, edges, vertices |
| **6** | Calculating interior angles of polygons (CM clip 32) | angle, degrees, regular, interior, polygon, edges, vertices |
| **7** | **Calculating alternate and corresponding angles** (CM clip 25) | horizontal, vertical, parallel,  perpendicular, intersecting,  corresponding, alternate |
| **8** | **Calculating co-interior angles** and solving problems involving alternate, corresponding and co-interior angles (CM clip 25) | horizontal, vertical, parallel,  perpendicular, intersecting, co-interior, corresponding, alternate |
| **9** | Using Pythagorean triples to find missing sides on right-angled triangles  (CM clip 257) | Pythagoras’ theorem, right-angle, triangle, hypotenuse |