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|---|---|---|---|
| **Unit Title:** | | **Shape Using Pythagoras And Trigonometry** | |
| **Unit Level:** | | **Level 2** | |
| **Unit Credit Value:** | | **3** | |
| **GLH:** | | **24** | |
| **LASER Unit Code:** | | **WJD516** | |
| **Ofqual Unit Code:** | | **J/505/5374** | |

This unit has 4 learning outcomes.

| LEARNING OUTCOMES | | ASSESSMENT CRITERIA | |
|---|---|---|---|
| **The learner will:** | | **The learner can:** | |
| 1. | Understand properties of angles. | 1.1 | Measure angles using a protractor. |
| | | 1.2 | Draw accurately angles using a protractor. |
| | | 1.3 | Use the angle properties of shapes to solve problems. |
| | | 1.4 | Identify different types of triangle. |
| | | 1.5 | Give properties of the triangles identified. |
| | | 1.6 | Identify regular polygons. |
| | | 1.7 | Calculate the internal and external angles of the identified regular polygons in 1.4. |
| | | 1.8 | Identify regular shapes which will tessellate. |
| | | 1.9 | Use three figure bearings to describe directions/positions and solve problems. |
| 2. | Be able to create basic constructions. | 2.1 | Draw circles using a pair of compasses. |
| | | 2.2 | Construct triangles using: (a) compasses (b) ruler (c) protractor. |
| | | 2.3 | Construct perpendicular bisector of straight line using compass and ruler. |
| | | 2.4 | Construct angle bisector using compasses and ruler. |
| 3. | Know about symmetrical properties of shapes. | 3.1 | Identify symmetrical properties of 2-D shapes. |
| | | 3.2 | Identify planes of symmetry of common 3-D shapes. |
| 4. | Be able to apply relationships in right-angled triangles. | 4.1 | Use Pythagoras theorem to find the missing lengths of sides in right-angled triangles. |

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| | | 4.2 | Choose the correct trigonometrical ratios to find:<br>(a) a missing side<br>(b) an angle<br>in right-angled triangles. |
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| | | 4.3 | Solve problems involving right-angled triangles. |
| | | 4.4 | Use Pythagoras/trigonometry to solve problems in context. |

| **Assessment Guidance:** |
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| *NA* |

| **Additional Information:** |
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| *NA* |