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| **Core Knowledge Map** | | | |
| Subject: **Mathematics** | Year: 10 | | Term: Autumn 1 |
| What are we learning? | | | |
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| How will I be assessed | | | |
| Retrieval Tasks, Exit tickets, end of half-term test. | | | |
| Big questions: | | | |
| Can You….?   * Describe the hypotenuse in a right-angled triangle. * Without a calculator – what is the value of sin(60), tan(45), cos(60)? * Calculate length x giving your answer to 1dp.      * A window cleaner has a ladder which is 7m long. The window cleaner leans it against a wall so that the foot of the ladder is 3m from the wall. What angle does the ladder make with the wall? | | | |
| How does this build on previous learning? | | How will this link to my future learning? | |
| * Using a calculator efficiently * Rounding * Substituting values into formula * Rearranging formula * Solving equations * Use of surds | | * Using both Pythgoras’ theorem and the trigonometric ratios in synoptic questions. * Using trigonometry in non right angled triangles in Year 11 * Both are used extensively at A-Level | |
| Core knowledge: | | Key vocabulary: | |
| * To recall and use the three main trigonometric ratios:   , ,   * An **inverse** function ‘undoes’ the original function. * A plane is a two dimensional space or flat surface. * Exact values | | Trigonometry  Sine, Cosine and Tangent  Hypotenuse  Opposite  Adjacent  Theorem  Similar  Inverse  Plane  Elevation  Depression | |
| Need more help? Use the Sparx Independent Learning Codes above | | | |