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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….?* Deduce of a triangle with side lengths, 2,3 and 6 is a right-angled triangle?
* Find the length between two coordinate points (2,3) and (8,13)?
* Describe when you use the version $a^{2}= c^{2}- b^{2}$ ?
* Calculate lengths x and y giving your answer to 1 dp

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| 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
* Recall formula and usage from Year 9
 | * 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
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| Core knowledge: | Key vocabulary: |
| Pythagoras’ theorem states c2 = a2 + b2 where c is the length of the hypotenuse in a right-angled triangle.Volume of a cuboid = $\sqrt{a^{2}+ b^{2}+ c^{2}}$ | TrigonometryHypotenuseOppositeAdjacentTheoremAngle of elevationAngle of depressionSimilarInversePythagorarean Triple |
| Need more help? Use the Sparx Independent Learning Codes above |