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| **Core Knowledge Map** |
| Subject: **Mathematics** | Year: 10 | Term: Autumn 2 |
| 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….?* Draw a tangent, chord, diameter and radius on a circle?
* Describe the difference between a segment and a sector?

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| \*Can you write an algebraic expression for the areas of both shapes? | \*Can you calculate the area and the perimeter of this sector? |

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| How does this build on previous learning? | How will this link to my future learning? |
| * Recall and use the formula for basic 2D shapes: square, rectangle, triangle, parallelogram, trapezium and circles
* Calculate the numerical value or derive an algebraic expressions for the perimeter of a 2D shape.
* Estimation
 | * Calculating volumes of prisms
* Calculating the volume of compound 3D shapes.
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| Core knowledge: | Key vocabulary: |
| Area of circle = $πr^{2}$Circumference of a circle = $πD or 2πr$Arc Length = $\frac{θ}{360} × πD$Area of sector = $\frac{θ}{360} × πr^{2}$ | PerimeterAreaSectorSegmentChord, tangent, diameter and radius |
| Need more help? Use the Sparx Independent Learning Codes above |