## Geometry in 2D

| Perimeter including Compound | Calculate perimeter of compound shapes including rectangles, triangles and parallelograms. Incilude alnehra | Perimeter of awkward gardens. Involve costing in real life situations |
| :---: | :---: | :---: |
| Circumference of Circles | Understand what pi is and how it is calculated. Use this to understand and generalise the rule to calculate circumference. | Tyrestwheelsiferris wheels calculations |
| Perimeter including Compound | Calculate perimeter of compound shapes including rectangles, triangles and parallelograms. Include algebra | Perimeter of awkward gardens. Involve costing in real life situations |
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| Circumference of Circles | Understand what pi is and how it is calculated. Use this to understand and generalise the rule to calculate circumference. | Tyrestwheelstferris wheels calculations |
| Aros and Sectors | Calculate the perimeter and of ares and sectors. Using common fractions of a whole circle such as half, quarter and three quarters only. |  |

## Key Knowledge/Prior Learning KS2/3 and Retrieval and Suggested Starters

- Ability to identify 2D shapes
- Addition and subtraction
- measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
- Addition/subtraction
- Addition/subtraction of decimals
- Converting units
- Identifying/classifying shapes
- Simplifying expressions


## KS3 National Curriculum - what students will be practicing and Key Questions

Find the perimeter of a 2D shape.
Find the perimeter of a 2D compound shape.
Find the circumference of a circle
Find the circumference of semi circles
Find the circumference of sectors.

## Specific Ambitious Knowledge

- 2 methods for perimeter of compound shapes: Missing sides Vs opposite sides rule.
- Circles:

Numerical answers Vs in terms of Pi

## Key Vocabulary/Literacy Opportunities

- Perimeter
- Length
- Circumference
- Sector
- Diameter
- Arc
- Radius
- Centre
- Chord
- Segment
- Proportion
- Theta

Key Formulae/Knowledge

Parts of a circle


Circumference


Compound shapes



Maths in Context (Historical, Real Life and Student Thinking Points).

## Projects/Enrichment/Investigations

- Circle/diameter and string investigation

Projects:

