



## Knowledge Rich Curriculum Plan

Year 7 Support – Perimeter and Area





To learn how to calculate the perimeter of a shape drawn on a centimeter grid.  Students will know how to calculate the perimeter of a shape drawn on a centimeter grid.  Students will know how to calculate the perimeter of a shape drawn on a centimeter grid.  Students will know how to calculate the perimeter of rectangles, triangles, trapells and paralleliograms.  Students will know how to calculate the perimeter of rectangles, triangles, trapells and paralleliograms.  Students will know how to calculate the perimeter of rectangles, triangles, trapells and paralleliograms.  Students will know how to calculate the perimeter of rectangles and paralleliograms.  Students will know how to calculate the perimeter of rectangles.  Compound shape — a shape of sour more geometric shapes  Students need to identify and recall properties of regular and irregular 2D shapes.  Students need to identify and recall properties of regular and irregular 2D shapes.  Students will know how to calculate the perimeter of rectangles, trapells and paralleliograms.  Students will know how to calculate the perimeter of rectangles and paralleliograms.  Students will know how to calculate the perimeter of rectangles and paralleliograms.  Students will know how to calculate the perimeter of rectangles and paralleliograms.  Students will know how to calculate the area of a shape with two pairs of parallelograms.  Students will know how to calculate area of a shape with two pairs of parallelograms.  Students will know how to calculate area of a shape with two pairs of parallelograms.  Students will know how to calculate the perimeter of compound shapes made up of rectangles and parallelograms.  Students will know how to calculate the perimeter of compound shapes made up of rectangles and parallelograms.  Students will know how to calculate the perimeter of compound shapes made up of rectangles and parallelograms.  Students will know how to calculate the area of a shape that is represent on a compound shape student the perimeter of compound shap	To learn how to calculate the perimeter of 2D shapes.  • Students perimete and para • Students represen Opportuni • Students operation	s will know how to calculate the er of a shape drawn on a centimetre s will know how to calculate the er of rectangles, triangles, trapezia allelograms. s will know that the units used to	<b>Perimeter</b> – the distance around the outside of a	<ul> <li>Students need to identify and recall properties of regular and</li> </ul>	Steps to Success – Perimeter  To calculate the perimeter, add the length of all of the sides together. Remember even if there are only two measurements on	Feedback
perimeter of a shape drawn on a centimetre grid.  Students will know how to calculate the perimeter of rectangles, triangles, trapezia and parallelograms.  Students will know how to use inverse operations to find the missing lengths of shapes when given the perimeter of compound shapes and triangles.  To learn how to calculate the perimeter of compound shape shape drawn on centimetre grid.  To learn how to calculate the perimeter of a compound shape shape drawn on centimetre grid.  To learn how to calculate the perimeter of compound shape shape drawn on centimetre grid.  To learn how to calculate the perimeter of compound shapes made up of rectangles and triangles.  To learn how to calculate the perimeter of compound shapes made up of rectangles and triangles and triangles and triangles.  To learn how to calculate the area of rectangles and triangles and triangles and triangles.  To learn how to calculate the area of rectangles and triangles.  To learn how to calculate the area of rectangles and triangles.  Students will know how to calculate the area of a shape triangle.  Students will know how to calculate the area of a shape triangle.  To learn how to calculate the area of rectangles and triangles.  To learn how to calculate the area of rectangles and triangles.  To learn how to calculate the area of rectangles and triangles.  Students will know how to calculate the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a shape that is represe	calculate the perimeter of 2D shapes.  • Students perimete and para • Students represen  Opportuni • Students operation	er of a shape drawn on a centimetre s will know how to calculate the er of rectangles, triangles, trapezia allelograms. s will know that the units used to	around the outside of a	recall properties of regular and	To calculate the perimeter, add the length of all of the sides together. Remember even if there are only two measurements on	
perimeter of 2D shapes.  Shapes  Shape If there are only two measurements on the shape If it has 4 sides you will need to add 4 numbers.  Steps to Success Perimeter of compound shapes  Steps 1: Firstly, identify whether or not you need to find any missing lengths. If it is necessary subtract the smaller length from the large length.  Steps 2: Add up the lengths of all the sides.  Steps 3: Don't forget to write your units —cm or mm or m.  Steps 2: Add up the lengths of all the sides.  Steps 3: Don't forget to write your units —cm or mm or m.  Steps 1- Identify the formula from the list needed:  Step 1- Identify the formula from the list needed:  Area of a Parallelogram = Base x Height  Area of a Parallelogram or or mm' or m'.  Step 2- Substitute the measurements into the required formula.  Step 2- Substitute the measurements in the required formula.  Step 2- Substitute the measurements in the required formula.  Step 2- Substitute the measurements in the required formula.  Step 2- Substitute the measurements in the required formula.  Step 2- Substitute the measurements in the	perimeter of 2D shapes.  Students perimete and para Students represen Opportuni Students operation	s will know how to calculate the er of rectangles, triangles, trapezia allelograms. s will know that the units used to			together. Remember even if there are only two measurements on	
Students will know how to calculate the perimeter of rectangles, triangles, triangles, transpale lograms.  Students will know how to use inverse operations to find the missing lengths of shapes when given the perimeter of a compound shape drawn on a perimeter of a compound shape smade up of rectangles.  Opportunity for challenge:  Students will know how to calculate the perimeter of a compound shape drawn on a centimetre grid.  Students will know how to calculate the perimeter of compound shapes made up of rectangles.  Opportunity for challenge:  Students will know how to calculate the perimeter of compound shapes made up of rectangles.  Opportunity for challenge:  Students will know how to calculate the perimeter of compound shapes made up of rectangles and triangles.  To learn how to calculate the area of rectangles and triangles.  To learn how to calculate the area of rectangles and triangles.  To learn how to calculate the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a shape with two pairs of parallelograms.  Students will know how to calculate the area of a shape with two pairs of parallelogram a four-sided shape with two pairs of parallelograms.  Students will know how to calculate area of a parallelogram a four-sided shape with two pairs of parallelograms.  Students will know how to calculate area of a parallelogram a four-sided shape with two pairs of parallelograms.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to acculate the ar	shapes.  Students perimete and para Students represen Opportuni Students operation	er of rectangles, triangles, trapezia allelograms. s will know that the units used to	shape	irregular 2D shapes.	,	
students will know how to use inverse operations to find the missing lengths of shapes when given the perimeter.  To learn how to calculate the perimeter of compound shapes made up of rectangles.  To learn how to compound shapes made up of rectangles and triangles.  To learn how to calculate the perimeter of compound shapes made up of rectangles and triangles.  To learn how to calculate the perimeter of compound shapes made up of rectangles and triangles.  To learn how to calculate the perimeter of compound shapes made up of rectangles and triangles.  To learn how to calculate the area of rectangles and parallelograms.  To learn how to calculate the area of shape that is represent on a cm grid.  Area — the amount of space inside a 2D shape parallelogram and parallelogram and parallelogram and parallelograms.  Area — the amount of space inside a 2D shape parallelogram and parallelogram and parallelogram and parallelograms.  Students will know how to calculate the area of a parallelogram and parallelograms.  Area — the amount of space inside a 2D shape parallelogram and parallelogram and parallelogram and parallelograms.  Students will know how to calculate the area of a parallelogram and parallelograms.  Area — the amount of space inside a 2D shape parallelogram and para	perimete and para • Students represen Opportuni • Students operation	er of rectangles, triangles, trapezia allelograms. s will know that the units used to				
and parallelograms.  Students will know that the units used to represent perimeter are mm, cm and m etc.  Opportunity for challenge:  Students will know how to use inverse operations to find the missing lengths of shapes when given the perimeter.  To learn how to calculate the perimeter of compound shape drawn on a centimetre grid.  Students will know how to calculate the perimeter of compound shapes made up of rectangles.  Opportunity for challenge:  Students will know how to calculate the perimeter of compound shapes made up of rectangles.  Opportunity for challenge:  Students will know how to calculate the perimeter of compound shapes made up of rectangles and triangles.  To learn how to calculate the area of rectangles and triangles.  Area — the amount of space inside a 2D shape inside a 2D shape with two pairs of parallelograms.  Area — the amount of space inside a 2D shape with two pairs of parallelograms.  Students will know how to calculate the area of a shape that is represent on a cm grid.  Area — the amount of space inside a 2D shape with two pairs of parallelograms.  Area — the amount of space inside a 2D shape with two pairs of parallelograms.  Students will know how to calculate the area of a shape that is represent on a cm grid.  Area — the amount of space inside a 2D shape with two pairs of parallelogram — a four-sided shape with two pairs of parallelograms.  Students will know how to calculate the area of a parallelogram — a four-sided shape with two pairs of parallelogram — a four-sided shape with two pairs of parallelograms.  Students will know how to calculate the area of a parallelogram — a four-sided shape with two pairs of parallelograms.  Students will know how to calculate the area of a parallelogram — a four-sided shape with two pairs of parallelogram — a four-sided shape with two pairs of parallelogram — a four-sided shape with two pairs of parallelograms.  Students will know how to calculate the area of a parallelogram — a four-sided shape with two pairs of parallelogram — a four-sid	and para • Students represen Opportuni • Students operation	allelograms. s will know that the units used to			the shape if it has 4 sides you will need to add 4 numbers.	
Students will know that the units used to represent perimeter are mm, cm and m etc. Opportunity for challenge:     Students will know how to use inverse operations to find the missing lengths of shapes when given the perimeter.      Students will know how to calculate the perimeter of a compound shape drawn on a centimetre grid.     Students will know how to calculate the perimeter of compound shapes made up of rectangles.      Opportunity for challenge:     Students will know how to calculate the perimeter of compound shape drawn on a centimetre grid.     Students will know how to calculate the perimeter of compound shapes made up of rectangles.      Opportunity for challenge:     Students will know how to find the area of a shape that is represent on a cm grid.     Students will know how to find the area of a calculate the area of rectangles and parallelograms.      Students will know how to calculate the area for a parallelogram.      Students will know how to calculate the area of a parallelograms.      Students will know how to calculate the area of a parallelogram.      Students will know how to calculate the area of a parallelogram.      Students will know how to calculate the area of a parallelogram.      Students will know how to calculate the area of a parallelogram.      Students will know how to calculate the area of a parallelogram.      Students will know how to calculate the area of a parallelogram.      Students will know how to calculate the area of a parallelogram.      Students will know how to calculate the area of a parallelogram.      Students will know how to calculate the area of a parallelogram.      Students will know how to calculate the area of a parallelogram and parallelogram.      Students will know how to calculate the area of a parallelogram and parallelogram.      Students will know how to calculate the area of a parallelogram and parallelogram.      Students will know how to calculate the area of a parallelogram and parallelogram and parallelogram.      Students will know	• Students represen  Opportuni • Students operation	s will know that the units used to				
represent perimeter are mm, cm and m etc. Opportunity for challenge:  *Students will know how to use inverse operations to find the missing lengths of shapes when given the perimeter.  *To learn how to calculate the perimeter of a compound shape for extrangles.  *Students will know how to calculate the perimeter of compound shapes made up of rectangles.  *Students will know how to calculate the perimeter of compound shapes made up of rectangles.  *Students will know how to calculate the perimeter of compound shapes made up of rectangles.  *Students will know how to calculate the perimeter of compound shapes made up of rectangles.  *Students will know how to calculate the perimeter of compound shapes made up of rectangles.  *Students will know how to calculate the perimeter of compound shapes made up of rectangles.  *Students will know how to calculate the perimeter of compound shapes made up of rectangles and triangles.  *Students will know how to find the area of a shape that is represent on a cm grid.  *Students will know how to calculate the area of a shape that is represent on a cm grid.  *Students will know how to calculate the area of a shape with two pairs of a parallelograms.  *Students will know how to calculate the perimeter of sompound shapes made up of rectangles and parallelogram.  *Students will know how to calculate the perimeter of a rectangle sand triangles.  *Students will know how to calculate the perimeter of a rectangle sand parallelogram.  *Students will know how to calculate the perimeter of a rectangle sand parallelogram.  *Students will know how to calculate the perimeter of a rectangle sand parallelogram.  *Students will know how to calculate the perimeter of a rectangle sand parallelogram.  *Students will know how to calculate the perimeter of a rectangle sand parallelogram.  *Students will know how to calculate the perimeter of a rectangle sand triangle.  *Students will know how to calculate the perimeter of a rectangle.  *Students will know how to more calculate the perimeter of a r	represen Opportuni • Students operation					
Opportunity for challenge:  Students will know how to eaclulate the calculate the perimeter of compound shapes made up of rectangles.  Opportunity for challenge:  Students will know how to calculate the perimeter of compound shapes made up of rectangles.  Opportunity for challenge:  Students will know how to calculate the perimeter of compound shapes made up of rectangles and parallelograms.  Students will know how to calculate the perimeter of compound shapes made up of rectangles and parallelogram.  Students will know how to calculate the aca rectangles.  Opportunity for challenge:  Students will know how to calculate the perimeter of compound shapes made up of rectangles and parallelograms.  Students will know how to calculate the aca reactangles.  Students will know how to calculate the aca reactangles.  Students will know how to calculate the aca reactangles.  Students will know how to calculate the aca reactangles.  Students will know how to calculate the aca reactangles.  Students will know how to calculate the aca reactangles.  Students will know how to calculate the aca rectangles.  Students will know how to calculate the aca rectangles.  Students will know how to calculate the aca rectangles.  Students will know how to calculate the aca rectangles.  Students will know how to calculate the aca rectangles.  Students will know how to calculate the aca rectangles.  Students will know how to calculate the aca rectangles.  Students will know how to calculate the aca rectangles.  Students will know how to calculate the aca rectangles.  Students will know how to calculate the aca rectangles.  Students will know how to calculate the aca rectangles.  Students will know how to calculate the aca rectangles.  Students will know how to calculate the aca rectangles.  Students will know how to calculate the aca rectangles.  Students will know how to calculate the aca rectangles.  Students will know how to calculate the aca rectangles.  Students will know how to calculate the aca rectangles.  Students will know how to	Opportuni • Students operation					
Students will know how to use inverse operations to find the missing lengths of shapes when given the perimeter.  To learn how to calculate the perimeter of a compound shape drawn on a centimetre grid.  Students will know how to calculate the perimeter of compound shapes and up of two or more geometric shapes  Students will know how to calculate the perimeter of compound shapes made up of rectangles.  Opportunity for challenge:  Students will know how to calculate the perimeter of compound shapes made up of rectangles and triangles.  To learn how to calculate the area of rectangles and parallelograms.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram a four-sided shape with two pairs of parallelogram.  Students need to know how to identify rectangles and parallelogram.  Students need to know how to identify rectangles and parallelogram.  Students need to know how to identify rectangles and parallelogram.  Students need to know how to identify rectangles and pa	• Students operation	nt perimeter are mm, cm and m etc.				
operations to find the missing lengths of shapes when given the perimeter.  To learn how to calculate the perimeter of a compound shape drawn on a centimetre grid.  Compound shapes.  Students wilk know how to calculate the perimeter of compound shapes made up of rectangles.  Opportunity for challenge:  Students will know how to calculate the perimeter of compound shapes made up of rectangles and triangles.  To learn how to calculate the area of rectangles and parallelograms.  Students will know how to calculate area of a parallelogram.  Students will know how to calculate area of a parallelogram.  Students will know how to calculate area of a parallelogram.  Students will know how to calculate area of a parallelogram.  Students will know how to calculate area of a parallelogram.  Students will know how to calculate area of a parallelogram.  Students will know how to calculate area of a parallelogram a shape made up of two or more geometric shapes  Students will know how to calculate the area of rectangles.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate area of a parallelogram a shape with two pairs of parallel opposite sides.  Students will know how to calculate area of a parallelogram a shape made up of two or more geometric shapes  Students will know how to calculate the area of shapes  Students will know how to calculate the area of a parallelogram and	operation	nity for challenge:				
shapes when given the perimeter.  To learn how to calculate the perimeter of a compound shapes.  **Students will know how to calculate the perimeter of compound shapes.  **Students will know how to calculate the perimeter of compound shapes made up of two or more geometric shapes  **Opportunity for challenge:  **Students will know how to calculate the perimeter of compound shapes made up of rectangles.  **Opportunity for challenge:  **Students will know how to calculate the perimeter of compound shapes made up of rectangles and triangles.  **Opportunity for challenge:  **Students will know how to calculate the perimeter of compound shapes made up of rectangles and parallelograms.  **Students will know how to find the area of a shape that is represent on a cm grid.  **Students will know how to calculate the area erctangles.  **Students will know how to calculate the area of a shape with two pairs of parallelogram.  **Students will know how to calculate area of a parallelogram.  **Students will know how to calculate area of a parallelogram.  **Students will know how to calculate area of a parallelogram.  **Students will know how to calculate area of a parallelogram.  **Students will know how to calculate area of a parallelogram.  **Students will know how to calculate area of a parallelogram.  **Students will know how to calculate the perimeter of a calculate		s will know how to use inverse				
- Students will know how to calculate the perimeter of candound shapes.  - Students will know how to calculate the perimeter of compound shapes made up of two or more geometric shapes  - Students will know how to calculate the perimeter of compound shapes made up of rectangles.  - Opportunity for challenge: - Students will know how to calculate the perimeter of compound shapes made up of rectangles and triangles.  - Students will know how to calculate the perimeter of compound shapes made up of rectangles and triangles.  - Students will know how to calculate the perimeter of compound shapes made up of rectangles and triangles.  - Students will know how to calculate the area of rectangles and parallelograms.  - Students will know how to calculate the area of a parallelogram.  - Students will know how to calculate area of a parallelogram.  - Students will know how to calculate a shape made up of two or more geometric shapes  - Students will know how to calculate the perimeter of a compound shapes made up of rectangle.  - Students will know how to calculate the perimeter of a compound shapes made up of rectangles.  - Students will know how to calculate the perimeter of a compound shapes made up of rectangles.  - Students will know how to find the area of a shape that is represent on a cm grid.  - Students will know how to calculate the area of rectangles and parallelograms.  - Students will know how to calculate the area of a shape that is represent on a cm grid.  - Students will know how to calculate the area of a shape that is represent on a cm grid.  - Students will know how to calculate the area of a shape that is represent on a cm grid.  - Students will know how to calculate the area of a shape that is represent on a cm grid.  - Students will know how to calculate the area of a shape that is represent on a cm grid.  - Students will know how to calculate the area of a shape that is represent on a cm grid.  - Students will know how to calculate the area of a shape that is represent on a cm grid.  - Area of a Sq	change w	ons to find the missing lengths of				
calculate the perimeter of a compound shape drawn on a centimetre grid.  • Students will know how to calculate the perimeter of compound shapes made up of rectangles.  Opportunity for challenge: • Students will know how to calculate the perimeter of compound shapes made up of rectangles and triangles.  To learn how to calculate the area of rectangles and parallelograms.  • Students will know how to calculate the area of a parallelogram.  Step 1: Firstly, identify whether or not you need to find any missing lengths, if it is necessary subtract the smaller length from the larger length.  Step 2: Add up the lengths of all the sides.  Step 3: Don't forget to write your units – cm or mm or m.  Step 3: Don't forget to write your units – cm or mm or m.  Step 1: Firstly, identify whether or not you need to find any missing lengths, if it is necessary subtract the smaller length from the larger length.  Step 2: Add up the lengths of all the sides.  Step 3: Don't forget to write your units – cm or mm or m.  Step 3: Don't forget to write your units – cm or mm or m.  Step 1 - Identify whether or not you need to find any missing lengths, if it is necessary subtract the smaller length from the larger length.  Step 2: Add up the lengths of all the sides.  Step 3: Don't forget to write your units – cm or mm or m.  Step 3: Don't forget to write your units – cm or mm or m.  Step 1 - Identify the formula from the list needed:  • Area of a Square/Rectangle = Base x Height  identify rectangles and parallelogram = Base x Height  step 2 - Substitute the measurements into the required formula.  Step 2 - Substitute the measurements into the required formula.  Step 3 - Don't forget to write your units cm² or mm² or m².	1 Sliapes W	when given the perimeter.				
calculate the perimeter of a compound shape drawn on a centimetre grid.  • Students will know how to calculate the perimeter of compound shapes made up of rectangles.  Opportunity for challenge: • Students will know how to calculate the perimeter of compound shapes made up of rectangles and triangles.  To learn how to calculate the area of rectangles and parallelograms.  • Students will know how to calculate the area of a parallelogram.  Step 1: Firstly, identify whether or not you need to find any missing lengths, if it is necessary subtract the smaller length from the larger length.  Step 2: Add up the lengths of all the sides.  Step 3: Don't forget to write your units – cm or mm or m.  Step 3: Don't forget to write your units – cm or mm or m.  Step 1: Firstly, identify whether or not you need to find any missing lengths, if it is necessary subtract the smaller length from the larger length.  Step 2: Add up the lengths of all the sides.  Step 3: Don't forget to write your units – cm or mm or m.  Step 3: Don't forget to write your units – cm or mm or m.  Step 1 - Identify whether or not you need to find any missing lengths, if it is necessary subtract the smaller length from the larger length.  Step 2: Add up the lengths of all the sides.  Step 3: Don't forget to write your units – cm or mm or m.  Step 3: Don't forget to write your units – cm or mm or m.  Step 1 - Identify the formula from the list needed:  • Area of a Square/Rectangle = Base x Height  identify rectangles and parallelogram = Base x Height  step 2 - Substitute the measurements into the required formula.  Step 2 - Substitute the measurements into the required formula.  Step 3 - Don't forget to write your units cm² or mm² or m².	l -	·	Compound shape – a shape	Students need to know how to	Steps to Success – Perimeter of compound shapes	
centimetre grid.  Students will know how to calculate the perimeter of compound shapes.  Opportunity for challenge: Students will know how to calculate the perimeter of compound shapes made up of rectangles and triangles.  To learn how to calculate the area of rectangles and parallelograms.  Students will know how to calculate the perimeter of compound shapes made up of rectangles and parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate area of a parallelogram.  Students will know how to calculate area of a parallelogram.  Students will know how to calculate area of a parallelogram.  Students will know how to calculate area of a parallelogram.  Students will know how to calculate area of a parallelogram.  Students will know how to calculate area of a parallelogram.  Students will know how to calculate area of a parallelogram.  Students will know how to calculate area of a parallelogram.  Students need to know how to multiply integers.  Students need to know how to identify rectangles and parallelogram a four-sided shape with two pairs of parallelograms.  Students will know how to calculate area of a parallelogram a parallelogram.  Step 1 - Identify the formula from the list needed:  Step 1 - Identify the formula from the list needed:  Step 1 - Identify the formula from the list needed:  Area of a Square/Rectangle a Base x Height  Area of a Parallelogram a Base x Height  Area of a Parallelogram and parallel	calculate the perimete	er of a compound shape drawn <b>on a</b>	made up of two or more	calculate the perimeter of a	Step 1: Firstly, identify whether or not you need to find any missing	
• Students will know how to calculate the perimeter of compound shapes made up of rectangles.  Opportunity for challenge:  • Students will know how to calculate the perimeter of compound shapes made up of rectangles and triangles.  To learn how to calculate the area of calculate the area of rectangles and parallelograms.  • Students will know how to find the area of a shape that is represent on a crn grid.  • Students will know how to calculate the area of a parallelogram.  • Students will know how to find the area of a shape that is represent on a crn grid.  • Students will know how to calculate the area of a parallelogram.  • Students will know how to calculate the area of a parallelogram.  • Students will know how to calculate the area of a parallelogram.  • Students will know how to calculate the area of a parallelogram.  • Students will know how to calculate the area of a parallelogram.  • Students will know how to calculate the area of a parallelogram.  • Students will know how to calculate the area of a parallelogram.  • Students will know how to calculate the area of a parallelogram.  • Students will know how to calculate the area of a parallelogram.  • Students will know how to calculate the area of a parallelogram = Base x Height  • Area of a Parallelogram = Base x Height  • Area of a Parallelogram = Base x Height  • Area of a Parallelogram = Base x Height  • Students will know how to calculate the measurements into the required formula.  • Step 2 – Substitute the measurements into the required formula.  • Step 3 – Don't forget to write your units – cm or mm or m.		-	geometric shapes	rectangle.		
perimeter of compound shapes made up of rectangles.  Opportunity for challenge:  Students will know how to calculate the perimeter of compound shapes made up of rectangles and triangles.  **Objection for the perimeter of compound shapes made up of rectangles and triangles.**  **Objection for the perimeter of compound shapes made up of rectangles and triangles.**  **Objection for the perimeter of compound shapes made up of rectangles and triangles.**  **Objection for the lengths of all the sides.**  **Students will know how to calculate the area of a shape that is represent on a cm grid.**  **Students will know how to calculate the area for rectangles and parallelograms.**  **Students will know how to calculate the area of a shape that is represent on a cm grid.**  **Students will know how to calculate the area four-sided shape with two pairs of parallelogram — a four-sided shape with two pairs of parallelograms.**  **Students will know how to calculate area of a parallelogram.**  **Students will know how to calculate the area four-sided shape with two pairs of parallelograms.**  **Students will know how to calculate the area rectangles.**  **Students will know how to calculate the area four-sided shape with two pairs of parallelograms.**  **Students will know how to calculate the area four-sided shape with two pairs of parallelograms.**  **Students will know how to calculate the area of a shape that is represent on a cm grid.**  **Students will know how to calculate the area of a shape that is represent on a cm grid.**  **Students will know how to calculate the area of a shape that is represent on a cm grid.**  **Students will know how to calculate the area of a shape that is represent on a cm grid.**  **Students will know how to calculate the area of a shape that is represent on a cm grid.**  **Students will know how to ind the area of a shape that is represent on a cm grid.**  **Students will know how to ind the area of a shape that is represent on a cm grid.**  **Students will know how to alculate the area o	compound shapes. • Students	s will know how to calculate the			larger length.	
rectangles.  Opportunity for challenge: Students will know how to calculate the perimeter of compound shapes made up of rectangles and triangles.  To learn how to calculate the area of rectangles and parallelograms.  **Students will know how to find the area of a shape that is represent on a cm grid. Students will know how to calculate the area of a rectangles. Students will know how to calculate the area of a parallelogram.  **Area — the amount of space inside a 2D shape Parallelogram — a four-sided shape with two pairs of parallel opposite sides.  **Students will know how to calculate area of a parallelogram = Base x Height  Step 3: Don't forget to write your units — cm or mm or m.  **Students will know how to find the area of a shape that is represent on a cm grid.  **Students will know how to calculate the area rectangles.  **Students will know how to calculate the area of a square/Rectangle = Base x Height  **Area of a Square/Rectangle = Base x Height  **Step 2 - Substitute the measurements into the required formula.  **Step 3 - Don't forget to write your units — cm or mm or m.  **Step 5: Don't forget to write your units — cm or mm or m.  **Step 5: Don't forget to write your units — cm or mm or m.  **Step 5: Don't forget to write your units — cm or mm or m.  **Step 5: Don't forget to write your units — cm or mm or m.  **Step 5: Don't forget to write your units — cm or mm or m.  **Step 5: Don't forget to write your units — cm or mm or m.  **Step 5: Don't forget to write your units — cm or mm or m.  **Step 5: Don't forget to write your units — cm or mm or m.  **Step 5: Don't forget to write your units — cm or mm or m.  **Step 5: Don't forget to write your units — cm or mm or m.  **Step 5: Don't forget to write your units — cm or mm or m.  **Step 5: Don't forget to write your units — cm or mm or m.  **Step 5: Don't forget to write your units — cm or mm or m.  **Step 5: Don't forget to write your units — cm or mm or m.  **Step 6: Don't forget to write your units — cm or mm or m.  **Step 6: Don't forget to writ	perimete	er of compound shapes made up of			Step 2: Add up the lengths of all the sides.	
Opportunity for challenge:  Students will know how to calculate the perimeter of compound shapes made up of rectangles and triangles.  To learn how to calculate the area of rectangles and parallelograms.  Students will know how to find the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a rectangles.  Students will know how to calculate the area of a parallelogram.  Students will know how to calculate area of a parallelogram.  Students will know how to calculate area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a square/Rectangle = Base x Height  Area of a Parallelogram = Base x Height  Step 2 – Substitute the measurements into the required formula.  Step 3 – Don't forget to write your units cm² or mm² or m².		· · · · · · ·			Step 3: Don't forget to write your units – cm or mm or m.	
• Students will know how to calculate the perimeter of compound shapes made up of rectangles and triangles.  To learn how to calculate the area of rectangles and parallelograms.  • Students will know how to find the area of a shape that is represent on a cm grid. • Students will know how to calculate the area of rectangles and parallelograms.  • Students will know how to calculate the area of a shape that is represent on a cm grid. • Students will know how to calculate the area rectangles. • Students will know how to calculate the area of a shape with two pairs of parallelograms. • Students need to know how to identify integers. • Students need to know how to identify rectangles and parallelogram = Base x Height • Area of a Parallelogram = Base x Height • Area of a Parallelogram = Base x Height • Step 2 – Substitute the measurements into the required formula. • Step 3 – Don't forget to write your units cm² or mm² or m².	Opportun	nity for challenge:				
perimeter of compound shapes made up of rectangles and triangles.  To learn how to calculate the area of rectangles and parallelograms.  *Students will know how to find the area of a shape that is represent on a cm grid.  *Students will know how to calculate the area of rectangles.  *Students will know how to calculate the area of a shape that is represent on a cm grid.  *Students will know how to calculate the area of rectangles.  *Students will know how to calculate the area of a shape with two pairs of parallelogram – a four-sided shape with two pairs of parallelograms.  *Students need to know how to identify the formula from the list needed:  *Area of a Square/Rectangle = Base x Height  *Area of a Parallelogram = Base x Height  *Step 2 – Substitute the measurements into the required formula.  *Step 3 – Don't forget to write your units cm² or mm² or m².		-				
rectangles and triangles.  To learn how to calculate the area of rectangles and parallelograms.  Students will know how to find the area of a shape that is represent on a cm grid. Students will know how to calculate the area of a shape that is represent on a cm grid. Students will know how to calculate the area rectangles. Students will know how to calculate area of a parallelogram.  Area—the amount of space inside a 2D shape Parallelogram—a four-sided shape with two pairs of parallelogram a four-sided shape with two pairs of parallelograms.  Students need to know how to identify the formula from the list needed:  Area of a Square/Rectangle = Base x Height  Area of a Parallelogram = Base x Height  Step 2 – Substitute the measurements into the required formula.  Step 3 – Don't forget to write your units cm² or mm² or m².						
To learn how to calculate the area of rectangles and parallelograms.  Students will know how to find the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of rectangles.  Students will know how to calculate the area of a shape that is represent on a cm grid.  Students will know how to calculate the area of a shape with two pairs of parallelogram – a four-sided shape with two pairs of parallelograms.  Students need to know how to identify rectangles and parallelogram = Base x Height  Step 1 – Identify the formula from the list needed:  Area of a Square/Rectangle = Base x Height  Area of a Parallelogram = Base x Height  Step 2 – Substitute the measurements into the required formula.  Step 3 – Don't forget to write your units cm² or mm² or m².	'	· · · · · ·				
shape that is represent on a cm grid.  Students will know how to calculate the area of parallelograms.  Students will know how to calculate area of a parallelogram.  Students will know how to calculate area of a parallelogram.  Step 1 – Identify the formula from the list needed:  Area of a Square/Rectangle = Base x Height  Step 2 – Substitute the measurements into the required formula.  Step 3 – Don't forget to write your units cm² or mm² or m².		· ·				
• Students will know how to calculate the area rectangles. • Students will know how to calculate the shape with two pairs of parallelogram. • Students need to know how to calculate area of a Parallelogram = Base x Height • Area of a Square/Rectangle = Base x Height • Area of a Parallelogram = Base x Height • Area of a Parallelogram = Base x Height • Area of a Parallelogram = Base x Height • Students will know how to calculate area of a parallelogram = Don't forget to write your units cm² or mm² or m².	To learn how to • Students	s will know how to find the area of a	<b>Area</b> – the amount of space	Students need to know how to	Steps to Success – Area of shapes	
• Students will know how to calculate the parallelograms.  • Students will know how to calculate the area rectangles. • Students will know how to calculate area of a square/Rectangle = Base x Height • Area of a Square/Rectangle = Base x Height • Area of a Parallelogram = Base x Height • Area of a Parallelogram = Base x Height • Area of a Parallelogram = Base x Height • Students will know how to calculate area of a parallelogram = Base x Height • Students will know how to calculate the area of a parallelogram = Base x Height • Step 2 – Substitute the measurements into the required formula. • Step 3 – Don't forget to write your units cm² or mm² or m².	calculate the area of shape th	nat is represent on a cm grid.	inside a 2D shape	multiply integers.	Step 1 – Identify the formula from the list needed:	
area rectangles.  Students will know how to calculate area of a parallelogram.  shape with two pairs of parallelograms.  identify rectangles and parallelograms.  shape with two pairs of parallelograms.  identify rectangles and parallelogram = Base x Height  Step 2 – Substitute the measurements into the required formula.  Step 3 – Don't forget to write your units cm² or mm² or m².	and the second of the second o	,	Parallelogram – a four-sided	, , ,	<ul> <li>Area of a Square/Rectangle = Base x Height</li> </ul>	
• Students will know how to calculate area of a parallel opposite sides.  • Students will know how to calculate area of a parallel opposite sides.  • Step 2 – Substitute the measurements into the required formula.  • Step 3 – Don't forget to write your units cm² or mm² or m².	l		shape with two pairs of			
a parallelogram.  Step 3 – Don't forget to write your units cm² or mm² or m².			parallel opposite sides.	_		
					<b>Step 3</b> – Don't forget to write your units cm <sup>2</sup> or mm <sup>2</sup> or m <sup>2</sup> .	
	1	9				
• Students will know how to use inverse		-				
operations to find the missing lengths of	operatio	ons to find the missing lengths of				
shapes when given the area.		o o				
To learn how to  Students will know how to calculate the  Area – the amount of space  Students need to know how to  Steps to Success – Area of shapes		ŭ .	<b>Area</b> – the amount of space	Students need to know how to	Steps to Success – Area of shapes	
calculate the area of a rectangle.   inside a 2D shape   calculate the area of a rectangle.   Step 1 – Identify the formula from the list needed:	calculate the area of area of a	a triangle.	inside a 2D shape	calculate the area of a rectangle.	Step 1 – Identify the formula from the list needed:	
triangles. Opportunity for challenge:  • Area of a Triangle = ½ x Base x Height	1	_			<ul> <li>Area of a Triangle = ½ x Base x Height</li> </ul>	
		s will know how to use inverse			Step 2 – Substitute the measurements into the required formula.	
Judgits will know now to use inverse					Step 3 – Don't forget to write your units cm <sup>2</sup> or mm <sup>2</sup> or m <sup>2</sup> .	
	II ·	5 5				
			Compound – a thing that is	Students need to know how to find	Steps to Success – Area of compound shapes	
operations to find the missing lengths of shapes when given the area.  Step 3 – Don't forget to write your units cm² or mm² or m².	area of compound area of compound	compound shapes,	composed of two or more	the area of a rectangle.	Step 1: Firstly, identify whether or not you need to find any missing	
operations to find the missing lengths of shapes when given the area.  To learn how find the  • Students will know how to calculate the  Compound – a thing that is  • Students need to know how to find  Steps to Success – Area of compound shapes	1 .		separate shapes.		lengths, if it is necessary subtract the smaller length from the	
operations to find the missing lengths of shapes when given the area.  To learn how find the area of compound  Students will know how to calculate the area of compound shapes,  To move find the area of compound shapes,  Step 3 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².		_	Compound shape – a shape		larger length.	
operations to find the missing lengths of shapes when given the area.  To learn how find the area of compound shapes, opportunity for challenge:  Step 3 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Success – Area of compound shapes  Step 1: Firstly, identify whether or not you need to find any missing lengths, if it is necessary subtract the smaller length from the			made up of two or more		Step 2: Divide the compound shape into smaller shapes, and	
operations to find the missing lengths of shapes when given the area.  To learn how find the area of compound shapes, Opportunity for challenge: Students will know how to calculate the opportunity for challenge: Students will know how to calculate the opportunity for challenge: Students will know how to calculate the opportunity for challenge: Students will know how to calculate the opportunity for challenge: Students need to know how to find the area of a rectangle. Step 1: Firstly, identify whether or not you need to find any missing lengths, if it is necessary subtract the smaller length from the larger length.		: =	shapes		calculate the area of each individual shape.	
operations to find the missing lengths of shapes when given the area.  To learn how find the area of compound shapes, Opportunity for challenge: Students will know how to calculate the area of compound shapes involving  Opportunity for challenge: Students will know how to calculate the area of compound shapes involving  Step 3 – Don't forget to write your units cm² or mm² or m².  Steps to Success – Area of compound shapes Step 1: Firstly, identify whether or not you need to find any missing lengths, if it is necessary subtract the smaller length from the larger length. Step 2: Divide the compound shapes, and	. Estungie				Step 3: To find the total area of the compound shape, add the area	
operations to find the missing lengths of shapes when given the area.  To learn how find the area of compound shapes, Opportunity for challenge: Students will know how to calculate the area of compound shapes involving rectangles and triangles.  Step 3 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 5 – Don't forget to write your units cm² or mm² or m².  Step 1: Firstly, identify whether or not you need to find any missing lengths, if it is necessary subtract the smaller length from the larger length.  Step 2: Divide the compound shape into smaller shapes, and calculate the area of each individual shape.					of the individual shapes together.	



Lesson objective	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Steps to Success	Feedback
				<b>Step 4:</b> Don't forget to write your units - cm <sup>2</sup> or mm <sup>2</sup> or m <sup>2</sup> .	
				,	
To learn how to find	Students will know how to calculate the	Radius – a straight line from	Students need to know how to	Steps to Success: Circumference of a circle	
the circumference of	circumference of a circle when given the	the centre to the	round to a given number of	Step 1: Find the diameter of your circle, if you are given the radius,	
a circle.	diameter.	circumference of a circle or	decimal places.	double it to find the diameter.	
	• Students will know how to find the	sphere		<b>Step 2:</b> Substitute your diameter into the formula – $C = \pi \times d$	
	circumference of a circle.	Diameter – a straight line		Step 3: Type your calculation in the calculator.	
	• Students will be able to leave answers in	passing from side to side		<b>Step 4:</b> Write your answer from the calculator and round to an	
	terms of $\pi$ and rounded to an appropriate	through the centre of a body		appropriate degree of accuracy – it will normally say in the	
	degree of accuracy.	or figure, especially a circle		question.	
	degree of decaracy.	or sphere			
	Opportunity for challenge:	$\pi$ – the ratio of a circle's			
	Students will know how to calculate the	circumference to its		Steps to Success: Circumference of a semi-circle/quarter circle	
	circumference of a - semi circle	diameter.		Step 1: Find the diameter of your circle, if you are given the radius,	
	circumerence of a serial circle	Circumference – the		double it to find the diameter.	
		perimeter of a circle		<b>Step 2:</b> Substitute your diameter into the formula $-\pi \times d$	
		ļ ·		<b>Step 3:</b> Divide the circumference of the circles by 2 for semi circle,	
				4 for quarter of a circle.	
				<b>Step 4:</b> Add the diameter onto the circumference of the semi circle	
To learn how to find	Students will know how to calculate the	<b>Area</b> – the amount of space	Students need to know how to	Steps to Success: Area of a circle	
the area of a circle.	area of a circle when the radius is given.	inside a 2D shape	round to a given number of	Step 1: Find the radius of your circle, if you are given the diameter,	
	• Students will know how to calculate the		decimal places.	half it to find the radius.	
	area of a circle when a diameter is given.		·	<b>Step 2:</b> Substitute your radius into the formula – $\pi r^2$	
	• Students will be able to leave answers in			Step 3: Type your calculation in the calculator.	
	terms of $\pi$ and rounded to an appropriate			<b>Step 4:</b> Write your answer from the calculator, check to see if the	
	degree of accuracy.			question wants you to round or answer in terms of $\pi$	
	acgree or accuracy.				
	Opportunity for challenge:			Steps to Success: Area of a semi-circle	
	• Students will know how to find the area of			<b>Step 1:</b> Find the radius of your circle, if you are given the diameter,	
	semi circles.			half it to find the radius.	
	Service direction			<b>Step 2:</b> Substitute your radius into the formula – A = $\pi r^2$ and then	
				dividing you answer by 2 to get the area of the semi-circle.	
				Step 3: Type your calculation in the calculator.	
				<b>Step 4:</b> Write your answer from the calculator and round to an	
				appropriate degree of accuracy – it will normally say in the	
				question.	
To consolidate	Students will know how to find the		•		
understanding of	perimeter of shapes, including compound				
perimeter and area	shapes.				
	• Students will know how to find the				
	circumference of circles and semi circles.				
L		1	1		į .



Lesson objective	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Steps to Success	Feedback	
	<ul> <li>Students will know how to find the area of</li> </ul>					
	rectangles, triangles, parallelograms,					
	compound shapes, trapezia and circles					
Mini-Assessment 9						