AREA & PERIMETER

L.I. To measure the perimeter of simple 2-D shapes (y3)To measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres(y4)

Definition/Support

Perimeter   The **perimeter** is the distance all the way around the **outside** of a 2D shape.**
To work out the perimeter, add up the lengths of all the sides.

Useful video:
https://www.bbc.co.uk/bitesize/topics/zvmxsbk/articles/zsr4k7h

Area   **To work out the area of a square or rectangle, multiply its height by its width.**
If the height and width are in cm, the area is shown in cm². If the height and width are in m, the area is shown in m².

A square with sides of 5 m has an area of 25 m², because 5 × 5 = 25.

Useful video:
https://www.bbc.co.uk/bitesize/topics/zjbg87h/articles/zwqt6fr

Main activities: Complete the worksheet, finding the perimeter of the different rooms in Prospero's House, record your answers on the separate answer sheet.
 Remember to show your calculations (your workings out!).
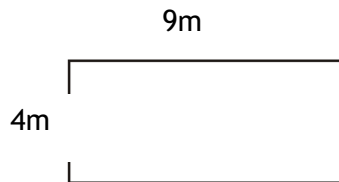
Challenges:
        Once you've completed the worksheets, try and complete both the challenges below.
1. Draw the living room, which is triangular in shape. Each side measures 8m. Use a ruler, 1m = 1cm.
        Prospero's library, where he practises his magic has an area of 12m2 . It could be square or rectangular. Draw all of the possibilities…

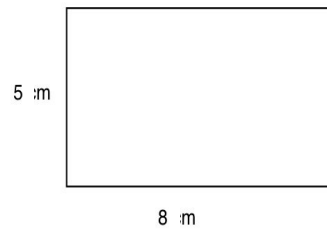## Bedroom:
Calculate the perimeter

9m

4m

The room is 3m by 4m. Using a ruler draw the room. 1m = 1cm.

Entrance way: Calculate the perimeter

5 m

8 m

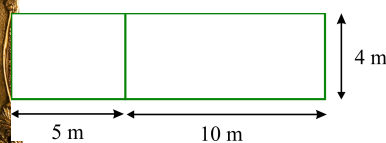## Swimming Pool: Calculate the perimeter

The pool is rectangular. The length is 19m and the width is 23m.

Kitchen : Calculate the perimeter

5 m   10 m

4 m

Hallway

The hallway is 13m long but only 2m wide. What is the area and the perimeter?

Room	Workings out/Calculations	Answer
1. Bedroom:		
2. Entrance Way		
3. Kitchen		
4. Bathroom **Use a ruler to draw the bathroom with the correct dimensions**		
5. Swimming Pool		
6. Hallway		