



Shapes and Patterns Home Information Sheet

First Level (a)



MTH 1-16a I have explored simple 3D objects and 2D shapes and can identify, name and describe their features using appropriate vocabulary.

MTH 1-16b I can explore and discuss how and why different shapes fit together and create a tiling pattern with them.

MTH 1-13a I can continue and devise more involved repeating patterns or designs, using a variety of media.

Over the next few weeks we are going to be learning to:

- Be able to recognise simple 3D objects and 2D shapes in their environment
- Be able to recognise simple 3D objects from 2D pictures
- Identify 2D shapes within 3D objects
- Investigate whether a shape tiles or not
- Identify examples of tiling within the known environment and discuss purpose and practicality
- Be able to copy, continue and describe patterns involving more than one object, shape or colour
- use a variety of media to create their own more complex patterns, *e.g. collage, printing, mosaic tiles etc*
- Explain the rules they have used or observed

Here are some ideas of how you can help me at home!

Robot challenge Ask children to draw a picture of a robot using at least 3 different 2D shapes. Back in class, ask children to name some of the shapes they used.

3D objects at home Ask children to write down five real-life examples of different 3D objects in their home and, if they can, to give the mathematical name of the 3D object, e.g. toilet roll is a cylinder.

Rectangles on 3D objects Ask children to make drawings of 3D objects in the home that have at least one rectangular face, for example, door, TV, picture frame.

Here are some websites that you may find useful to use with me!

Pattern Mania - <http://www.primarygames.com/patterns/question2.htm>

Shape Lab (Medium) -
<http://www.bbc.co.uk/bitesize/ks1/maths/shapes/play/popup.shtml>

0

