



## Shapes and Patterns Home Information Sheet

### First Level (c)



*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:

- Identify and name 2D shapes and 3d objects
- Appreciate that 2D shapes may be regular or irregular
- Sort and classify a range of 2D shapes and 3D objects
- Know vocabulary associated with 2D shapes and 3D objects (e.g. corner, side, angle, face, edge, straight, curved) and use it appropriately in discussions
- Investigate whether a shape tiles or not
- Explain why different shapes can or cannot tile
- Investigate tiling patterns which use more than one shape
- 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!

**Describe the object** Ask children to choose any solid object at home (e.g. kitchen cupboard, TV, book, phone) and record the object's properties. Tell them to use the words flat, curved, face, edge, corner as appropriate.

**Finding shapes** Ask children to think of something at home (or in the street or at the shops) which is approximately a sphere, a cuboid, a cylinder, a prism. They choose one example of each and draw it.

**Create a tiling pattern squared paper** Ask children to create a pattern of tiles for their bathroom on squared paper.

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

**Crazy Pattern Machine** –

[http://funschool.kaboose.com/preschool/learnabcs/games/game\\_crazy\\_pattern\\_machine\\_the.html](http://funschool.kaboose.com/preschool/learnabcs/games/game_crazy_pattern_machine_the.html)

**Tile Puzzles** - <http://www.tilepuzzles.com/>

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

