$\qquad$ Date: $\qquad$

## Shape and space resources: 2D and 3D shapes

## Main Curriculum Elements

## Functional Mathematics

Entry Level 1 - recognise and name common 2D and 3D shapes
Entry Level 2 - know properties of simple 2D and 3D shapes
Entry Level 3 - recognise and name simple 2D and 3D shapes and their properties
Level 1 - Construct geometric diagrams, models and shapes
Level 2 - Recognise and use 2D representations of 3D objects
MSS2/E1.1 Recognise and name simple 2D and 3D shapes
(a) know the names of common 2D shapes e.g. rectangle, square, circle
(b) know the names of common 3D shapes e.g. cube
(c) understand that shape is independent of size
(d) understand that shape is independent of orientation (i.e. shape is not fixed in space) and recognise shapes in different orientations
(e) understand the difference between 2d e.g. flat and 3D (e.g. solid, or a container) shapes

MSS2/E2.1 Recognise and name common 2-D and 3-D shapes
(a) know the names of 2-D common shapes, e.g. rectangle, square, circle, triangle
(b) know the names of 3-D common shapes, e.g. pyramid, cylinder
(c) understand that shape is independent of size, proportion and orientation e.g. a
cylinder can be flat like a table mat or tall like a tin of baked beans (amended in 2009 update)

MSS2/E2.2 Describe the properties of common 2-D and 3-D shapes
(a) Know the relevant vocabulary for describing 2-D and 3-D shapes, e.g. corner, angle, face, side This sub-element amended in the 2009 curriculum update

MSS2/E3.1 sort 2-D and 3-D shapes to solve practical problems using properties (e.g. lines of symmetry, side length, angles)
(a) Recognise and name common regular polygons New sub-element added in the 2009 curriculum update
(b) Identify lines of symmetry New sub-element added in the 2009 curriculum update
(c) Identify right angles in 2-D shapes and in the environment New sub-element added in the 2009 curriculum update

MSS2/L1.2 draw 2-D shapes in different orientations using grids (e.g. in diagrams or plans)
(a) recognise and name a range of mathematical 2-D and 3-D shapes This new subelement added in the 2009 curriculum update
(b) know the properties of regular 2-D shapes

MSS2/L2.1 Recognise and name a range of mathematical 2-D representations of 3D objects, e.g. in maps and plans
(a) Know the accepted conventions for representing 3-D objects, e.g. contour lines, representation of a cuboid.
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## 2 Dimensional (2D) Shapes



## square

4 sides, all the same length

circle
completely round


## rectangle

4 sides

oval
rounded, but
flatter than a circle.


## triangle

3 sides

## E1-2

Information sheet or cut up and use as a matching game (column 3 can be omitted for Entry 1)
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## 2 Dimensional (2D) Shapes

Complete the table

| Shape | Number of <br> sides | Number of <br> corners |
| :---: | :---: | :---: |
| square | 4 | 4 |
| circle |  |  |
| rectangle |  | 0 |
| oval |  |  |
| triangle |  |  |

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## 2 Dimensional Shapes

Write the name inside each of the shapes below.


## E1-E3

$\qquad$
$\qquad$

## 2 Dimensional (2D) Shapes



5 sides

regular
hexagon
6 sides

regular octagon

8 sides


## parallelogram

4 sides opposite sides are parallel

trapezium:
4 sides with only one pair of sides parallel

## E3

## Drawing 2 Dimensional (2D) shapes

Using the drawing package in Microsoft Word (autoshapes), draw the following shapes with specific measurements.


| red | each side to |
| :---: | :--- |
| square | measure 5 cm |



## yellow rectangle shorter sides to <br> measure 7 cm .



## pink <br> triangle

: each side to
measure 4cm


## green <br> triangle

:2 sides to measure $6 \mathrm{~cm}, 1$ side to measure 4 cm
$\qquad$

## 3 Dimensional (3D) Shapes



## cube

6 faces - all are squares

cuboid
6 faces that are
squares or rectangles

cylinder
2 flat faces are both circles one curved face


## sphere

1 square face and 4 triangular faces

## E1-3

Information sheet or cut up and use as a matching game (column 3 can be omitted for Entry 1)
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## 3 Dimensional (3D) Shapes

Complete the table.

| Shape | Number of <br> edges | Number of <br> corners | Number <br> of faces |
| :---: | :---: | :---: | :---: |
| cube | 12 |  | 6 |
| cuboid |  | 8 |  |
| cylinder |  |  |  |
| square based <br> pyramid |  |  | 1 |
| sphere |  |  |  |
| cone |  |  |  |

## E3-L2

$\qquad$

## 3 Dimensional (3D) Shapes

## Write the name inside each of the shapes below.



E3-L2
$\qquad$

| I have 4 sides that are all the same length <br> and 4 corners. I am flat. What shape am I? |  | Square |
| :--- | :--- | :---: |
| I am a flat shape with no sides and no <br> corners. What shape am I? |  | Circle |
| I have 4 sides. 2 sides are long and 2 <br> sides are short. I am flat. What shape am <br> I? |  | Rectangle |
| I am a flat shape and look like an egg. <br> What shape am I? |  | Oval |
| I have 3 sides and 3 corners. I look like the <br> end of a Toblerone box. What shape am I? |  | Triangle |


| I have 5 sides and I am flat. There is a |
| :--- | :---: | :---: |
| building in America that shares my name. |
| What shape am I? | Pentagon


| I am a solid shape and I look like a dice. |
| :--- | :--- | :--- |
| What shape am I? | Cube

[^0]
[^0]:    E3-L2 Use as a matching game or paired card game. Use all three columns or any combination of two columns.

