

Maths

This week we are revising our knowledge of 2D and 3D shapes. By the end of Reception, your child will have been taught the names of some common 2D and 3D shapes, and should be able to describe shapes using language such as corner, point, side, flat, curved etc.

Monday (10-15 minutes)

Quick starter: Watch the PowerPoint about 2D shapes and their descriptions.

Print off or draw the selection of 2D shape cards. Cut out the six cards and place them on the table.

Check your child knows the names of the shapes by saying the name of each shape and asking your child to pick the right card.

Play guess the shape: Describe one of the shapes to your child, for example, 'I have one curved side and no corners. What am I?' Your child has to pick up and name the correct shape card to win a point. Swap roles and ask your child to describe a shape for you to guess. See who can win the most points!

Tuesday (15-20 minutes)

Quick starter: Watch the Powerpoint about 3D shapes and their descriptions.

Show your child the PowerPoint pictures of the sphere, cube, cuboid and cylinder. Set a five-minute timer and ask your child to find an object around the house that matches each shape. If they need help, give them some examples of objects they could choose:

Sphere: a ball or marble

Cube: a dice or building block

Cuboid: a cardboard box or lego brick

Cylinder: a tin can

When your child has finished the hunt, look at each of the shapes and describe them.

How many faces does each shape have? Are any of the faces 2D shapes?

How is the cube similar to the cuboid? What makes them different?

Does your shape have straight or curved edges?

Does your shape have any 'points' or 'vertices'?

Can your shape stand up on its own? Can it roll?

Can your child tell you the difference between 2D and 3D shapes?

Don't worry if your child struggles to use terms such as 'vertices' – it is more important that they can recognise the shape and describe it using everyday language.

Wednesday (10-15 minutes)

Quick starter: Re-cap the names of the 2D shapes from Monday and 3D shapes from yesterday, using the 2D shape cards and real 3D objects your child found.

Hide the 3D objects you found yesterday in a bag. Put your hand in the bag and feel one of the shapes without showing it to your child.

Describe the shape, using words such as 'edge', 'points' (or 'vertices' if they understand the term), 'straight', 'curved' and 'face'. Ask your child to guess the shape.

Swap roles and ask your child to describe shapes for you to guess.

Thursday (10-15 minutes)

Quick starter: Play the 3D shapes song: <https://www.youtube.com/watch?v=2cq-Uc556-Q>

You will need a cardboard box, such as a cereal box, that you don't mind being dismantled!

Show your child the box and ask them if they know what the shape of the box is. How many flat faces does the shape have?

Now tell the children you are going to open up the shape to reveal its **net**. Explain that the net is how the shape looks when it is flattened or becomes a 2-D shape.

Carefully unstick the sides of the box and lay the flat net on the table.

Is the shape 3D now or 2D? Can your child spot any specific 2D shapes in the net, such as squares or rectangles?

Challenge: Ask your child to count and label the 2D shapes they can see on the net.

Friday (15-20 minutes)

Quick starter: Line up the everyday 3D objects your child found. Read each of the shape name labels (see resources) and ask them to put the label next to the correct shape.

Print off the dice net or draw your own version on paper or thin card. (It may be useful to have two copies, so that you can construct your own dice alongside your child and show them how to complete each step).

Ask your child to look at the net. Can they name the 2D faces? What 3D shape do they think it will make?

Ask your child to carefully cut out and make their 3D dice from the nets (support them with this if needed). When finished, ask your child:

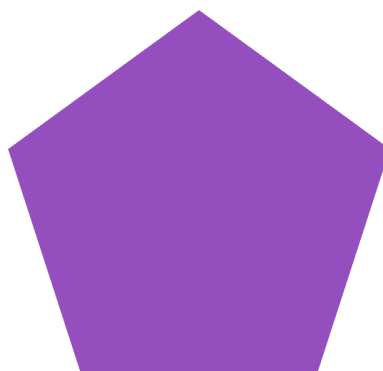
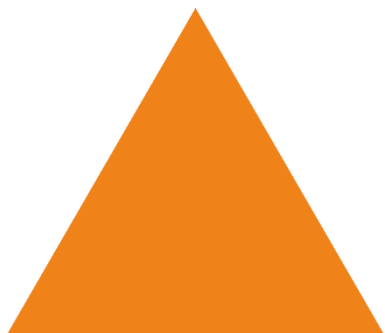
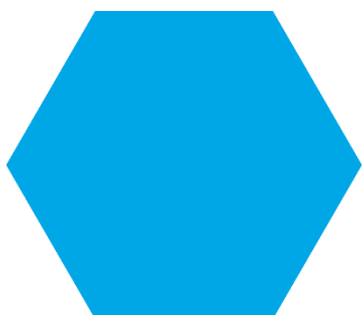
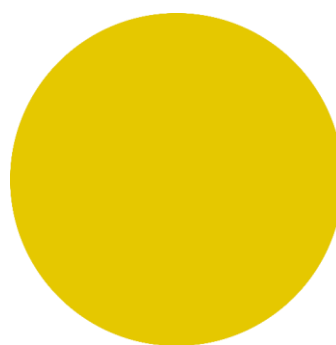
What shape have you made?

How many square faces does it have?

Ask your child to think of a game you can play with their new dice!

Resources

Monday



Friday

sphere	cube
cuboid	cylinder

