

# Discussion Problems

## Step 1: 3D Shapes

Teaching note: For Q2, an A3 copy and and scissors may be necessary.

### National Curriculum Objectives:

Mathematics Year 1: (1G1b) [Recognise and name common 3-D shapes \[for example, cuboids \(including cubes\), pyramids and spheres\]](#)

### About this resource:

As this resource is aimed at Year 1, we recommend that an adult reads the problem to children who cannot yet access it for themselves.

This resource has been designed for pupils who understand the concepts within [this step](#). It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More [Year 1 Shape](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

# 3D Shapes

1. Name the 3D shapes shown below. Explore how many other objects you can name which are the same 3D shape.



cube

sphere

cuboid

square-  
based  
pyramid

cylinder

cone

DP

2. Cut out the cards below with a partner and place them face down. Take it in turns to choose two cards to try and match the 3D shape with its name. If they match you can keep the pair.

cube

sphere

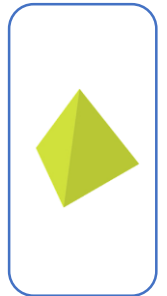
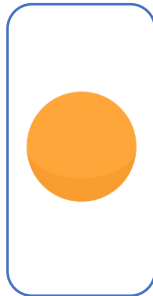
cuboid

cylinder

cone

square-based  
pyramid

triangular-  
based  
pyramid



The person with the most pairs wins.

DP

# 3D Shapes

1. Name the 3D shapes shown below. Explore how many other objects you can name which are the same 3D shape.

**Various answers, for example: cone – traffic cone.**



cone



sphere



cuboid



cylinder



cube



square-based pyramid

cube

sphere

cuboid

square-based pyramid

cylinder

cone

DP

2. Cut out the cards below with a partner and place them face down. Take it in turns to choose two cards to try and match the 3D shape with its name. If they match you can keep the pair.

cube

sphere

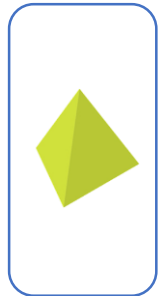
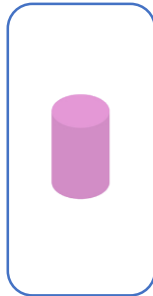
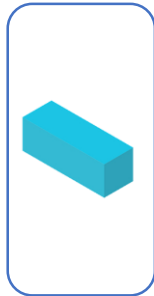
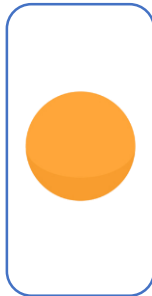
cuboid

cylinder

cone

square-based pyramid

triangular-based pyramid



The person with the most pairs wins.

**Matching pairs as above.**

DP