# Classifying 2D and 3D shapes

## Year 1 Maths – Measurement and Geometry

### Australian curriculum Learning objectives

* [ACMMG022](http://www.australiancurriculum.edu.au/Elements/ACMMG022)[[1]](#footnote-1): Recognise and classify familiar two-dimensional shapes and three-dimensional objects using obvious features. Focusing on geometric features and describing shapes and objects.

### Resources required

* [*Learning Shapes for Children.*](http://www.youtube.com/watch?v=IvRL31WRkxY)*[[2]](#footnote-2)* (1.28 minutes.)
* [*3D Shapes*](http://www.youtube.com/watch?v=Uy8JmbFlnfs)[[3]](#footnote-3)(0.44 minutes.)
* Online video with equipment to display video. **NB:** There is no need to activate captions on video, even though they are provided. View as open captions only.
* Cut outs x group set
* Worksheet x class set (two each if being used for homework)

Lesson outcome: students will be able classify 2D and 3D shapes using everyday words such as 'corners', 'edges' and 'faces'.

#### Lesson outline:

1. Introduce the lesson by drawing a few 2D shapes on the board. Class discussion about the name of the shapes and, briefly, how they might be described.
2. Repeat for a few 3D shapes.
3. View both videos to consolidate existing knowledge of 2D and 3D shapes. If required, introduce new shapes to class with definitions.
4. Class discussion around words that can be used to describe shapes: round, curvy, edges, faces, angles, sides.
5. Divide class into smaller groups and hand out sets of shape cut outs. Groups then discuss and sort shapes into 2D and 3D shapes.
6. List all [shape names](#shapenames) on the board. Students complete lesson by filling in worksheet with shape names.

### Homework/extension

For homework, students write down the list of all shapes. They are supplied with a fresh worksheet and must match the shape name to the shape.

### Opportunity for further activity

Students can classify cut outs by a wider range of options: two equal sides, right angles, two parallel sides, no equal sides, symmetry.

## Shape names for listing on board

Sphere

Cube

Cylinder

Cone

Pyramid

Prism

Circle

SquareTriangle

Rectangle

Star

Heart

Diamond

Oval

Trapezoid

Crescent

CrossArrow

Polygon

Pentagon

Hexagon

Heptagon

Octagon

Nonagon

Decagon

1. http://www.australiancurriculum.edu.au/Elements/ACMMG022 [↑](#footnote-ref-1)
2. http://www.youtube.com/watch?v=IvRL31WRkxY [↑](#footnote-ref-2)
3. http://www.youtube.com/watch?v=Uy8JmbFlnfs [↑](#footnote-ref-3)