



## Plane Figures

This resource was developed as part of a Graphics CPD 2018/2019 workshop which took place during the 2018/2019 school year. All materials used during this workshop can be viewed in the Technologies section of [www.jct.ie](http://www.jct.ie) within the CPD Workshops tile.

Website Link: [https://www.jct.ie/technologies/cpd\\_supports\\_graphics\\_cpd\\_workshops\\_2018\\_2019](https://www.jct.ie/technologies/cpd_supports_graphics_cpd_workshops_2018_2019)

The focus of this workshop was to familiarise teachers with the Graphics specification which was published December 2018. As part of this CPD teachers were introduced to the structure of the specification and the learning outcomes associated with the Graphics specification. This activity was used in the workshop to highlight the importance of action verbs in directing learning and assessment and can be found on slides 30 & 31 of the Graphics CPD 2018/2019 PowerPoint.

The following Learning Outcomes and Key Learning was identified as part of this activity in the workshop.

Learning Outcome: 3.1 – **Recognise** 2D and 3D features in everyday objects and artefacts.

Key Learning – Identify and highlight plane figures in the everyday objects.

Learning Outcome: 1.10 – **Understand** the properties of geometric shapes.

Key Learning – Identify and outline properties of geometric shapes.

**Note:** This is not a unit of learning but a sample activity which would form part of a wider unit of learning. The use within the workshop was to introduce learning outcomes and action verbs and what they could look like in Graphics classroom.

### What is included in this PDF?

#### 1. Plane figures in Everyday Objects

This is an A3 page which explores plane figures through identification within everyday objects. This handout was specifically designed for the CPD 2018/2019 workshop and it is recommended that this resource be tailored to suit your own specific class group and context.

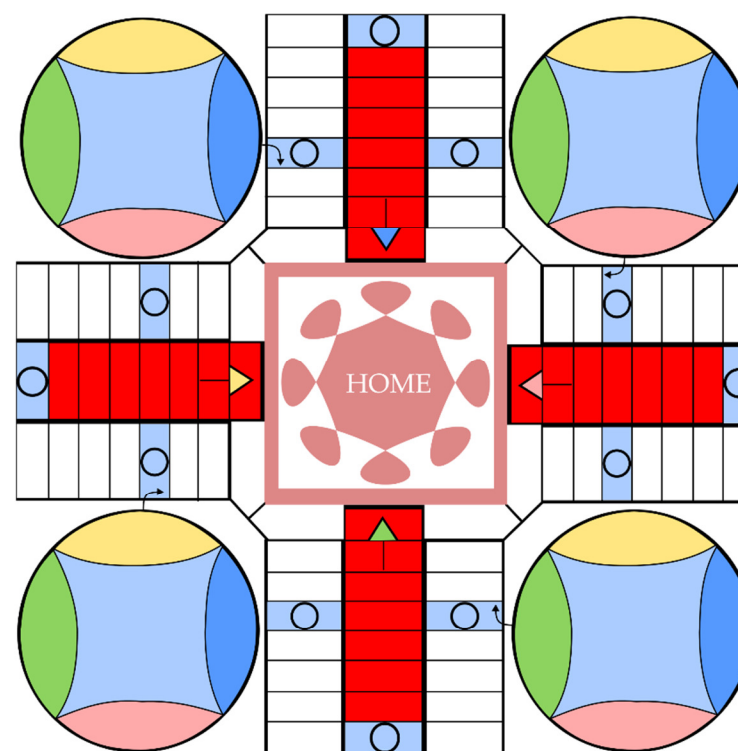
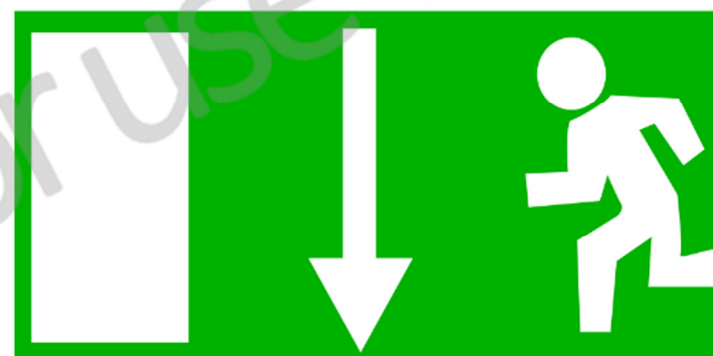


**Note:** It is recommended that you view the CPD workshop materials in conjunction with using this resource to contextualise the resource and develop a better understanding of structure of the specification

# Plane figures in the world around us:

Plane figures are **flat 2-dimensional** shapes which can be made up of straight lines, curves and a combination of both. When we look at everyday objects, we recognise plane figures such as circles, triangles and squares depending on the number of sides the shape has.

Complete the activities shown on the right.



## Identification of shapes

**Identify** how many images contain the following shapes within them.

List the **geometric properties** of that shape.

Circle: \_\_\_\_\_

Properties: \_\_\_\_\_



Triangle: \_\_\_\_\_

Properties: \_\_\_\_\_



Square: \_\_\_\_\_

Properties: \_\_\_\_\_



Rectangle: \_\_\_\_\_

Properties: \_\_\_\_\_



Pentagon: \_\_\_\_\_

Properties: \_\_\_\_\_



Hexagon: \_\_\_\_\_

Properties: \_\_\_\_\_



Octagon: \_\_\_\_\_

Properties: \_\_\_\_\_



Using **tracing paper** sketch the outline of each shape listed above using the provided images.