

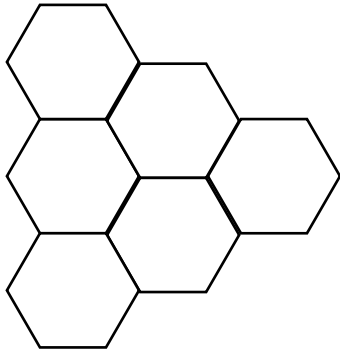


TESSELLATIONS INFORMATION SHEET

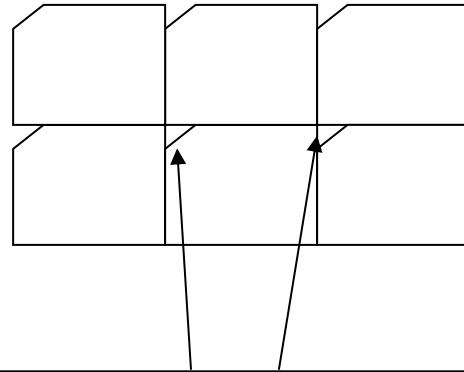
If a shape tessellates, it means that it will fit together with other identical shapes to fill up any 2d space leaving no gaps. Sometimes it is called **tiling**.

There are many different shapes that do tessellate, and also many that do not.

Here is an example of each:



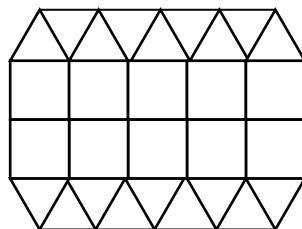
These regular hexagons **do** tessellate because they fit together with no spaces.



These irregular pentagons do not tessellate as they leave a gap in the top left corner of the shape.

A **regular tessellation** is when a regular polygon tessellates. The hexagons above make a regular tessellation. There are only three regular tessellations – can you find the other two?

A **semi regular tessellation** is when you have a tessellation made up of different regular polygons.



This is a semi regular tessellation made up of squares and equilateral triangles.

