

## Challenge # 6 : Flower Design



A pattern or a template is a 2-Dimensional, flat tool that helps you to create a 3-Dimensional object that has volume. It is especially useful when you want to produce many copies of the object. Patterns are used for making clothing, packaging such as boxes, or furniture.

**Part 1 - Design Challenge:** Create a pattern for three different flower petals on graph paper that will be used to create a paper flower. **The first petal** should be no longer than 15 cm and no wider than 5 cm. **The second petal** should be  $\frac{3}{4}$  the length of the first, and **the third petal** should be  $\frac{1}{2}$  the length of the first.

**Part 2 - Paper Engineering Challenge:** You are going to use the pattern made by a classmate to construct your paper flower. Choose a colour scheme of 3 colours for your flower and then cut out copies of the 3 flower petals in the different tissue paper colours. Construct your flower by weaving the petals into the plastic base.

### Materials

Design: Graph paper, ruler, pencil

Construction: Scissors, tissue paper, plastic base

### Resources:

Colour wheel

Flower catalogue

### Question:

Were you able to imagine what the finished 3-D flower would look like by looking at the 2-D pattern?

