

## Junior Flowers

### Supplies Needed

- Notebook
- Something to write with
- Flowers or a paper towel or piece of romaine lettuce
- Cup
- Water
- Food coloring
- Paper
- Scissors
- Stapler
- Tissue paper
- Circular stencils, two sizes (tupperware lids work great!)
- Pipe Cleaners
- Pencil
- Ruler
- Egg cartons
- Paint & paint brush
- Buttons (optional)

## Uncover the science of one flower

### Supplies Needed

- Notebook
- Something to write with

### Activity

#### **Go on a flower hunt**

Botanists are a kind of scientist that tracks the history of different kinds of flowers. As you get ready to dig up flower secrets, transform yourself into a botanist and create a journal to help you navigate your way through this badge. Find a flower outside your house (or search online with adult help) and record or sketch what you see in your botanist notebook.

Can't find many flowers where you live? Take an online tour of the [United States Botanical Garden](#) and see what kind of flowers you can identify.

### Check your Skills

## Look under the petals

### Supplies Needed

- Flowers or a paper towel or piece of romaine lettuce
- Cup
- Water
- Food coloring

### Activity

#### **Dye a flower**

If you don't have any flowers on hand, use a paper towel or a piece of romaine lettuce to show capillary action.

Flowers drink water from their stems, this is what capillary action is. To watch capillary action happen in real time, dip the end of a paper towel strip into colored water or add your piece of lettuce to the colored water. Watch as the color soak up into the strip.

[Here is an online video](#) that shows capillary action of a carnation!

### Check your Skills

Write out in your botanist notebook why stems are important. Draw a picture of what the

stem of the flower looks like underground.

## Find out how flowers help people

Supplies Needed

Activity

### **Flowers are fruits in disguise**

By watching this video and then looking at this worksheet, you can see that flowers and fruits are one in the same! One of the growing stages of an apple is the flowering stage. Can you point out exactly when the flower becomes the fruit?

- [Video of the life cycle of an apple](#)
- [The life cycle of an apple worksheet](#)

Check your Skills

Make a list of any other fruits that start as flowers in your botanist notebook. Draw what the fruit looks like, and what you think the flower would look like. Then, with the help of an adult, go online and look and see if your guesses are correct!

## Have fun with flowers

Supplies Needed

- Paper
- Scissors
- Stapler
- Tissue paper
- Circular stencils, two sizes (tupperware lids work great!)
- Pipe Cleaners
- Pencil
- Ruler
- Egg cartons
- Paint & paint brush
- Buttons (optional)

Activity

### **Fun with flower look-alikes**

Search around your home to see what items you can turn into flower “imposters”. Here are some suggestions:

- Poinsettias out of paper
  - <https://www.youtube.com/watch?v=Vw5EBxdXetU>
- Poppies out of tissue paper
  - <https://www.wikihow.com/Make-Tissue-Paper-Poppies>
- Tulips out of egg cartons
  - <https://www.wikihow.com/Make-Tissue-Paper-Poppies>

Check your Skills

Can you identify which parts of each flower you made? Find out more information on each flower, where it grows and what time of year!

## Send a message in flower code

Supplies Needed

Activity

### **Send a message in flower code**

Flowers are said to be symbols, and that different types of flowers are given to people for different reasons. Write down in your botanist notebook different situations that people give or receive flowers for, and then [review this website that provides information on what the meaning of flowers](#) are to see which flowers you would give at each situation you wrote down.

Check your Skills

Come up with a flower message for a friend or family member based on the information you learned!