

# Flower Power: Become a Junior Botanist!

## Materials Needed:

- 3-4 different types of fresh flowers (daisies, tulips, carnations, or lilies work well)
- Magnifying glass
- Plain white paper or a notebook
- Crayons, colored pencils, or markers
- A paper plate or tray to work on
- Child-safe tweezers (optional, but fun for dissection)
- A small cup of water for the flowers

## Learning Objectives:

By the end of this lesson, the student will be able to:

- Identify and name at least three basic parts of a flower (petals, stem, leaves).
- Observe and describe the similarities and differences between various flowers.
- Create an original piece of art to demonstrate understanding of a flower's structure.
- Explain one reason why flowers are important to the environment (e.g., for bees).

## Lesson Activities

### 1. Warm-Up: The Flower Hunt (5 Minutes)

**Goal:** To spark curiosity and practice observation skills.

1. Place the different flowers around the room before the lesson begins.
2. Tell the student they are going on a "Flower Hunt." Their mission is to find all the different flowers you have hidden.
3. As they find each flower, have them describe it using their senses. Ask questions like:
  - "What colors do you see on this one?"
  - "How does it smell? Does it have a strong smell or a soft one?"
  - "How do the petals feel? Are they smooth, soft, or waxy?"
4. Gather all the flowers together at your workspace.

### 2. Activity 1: The Flower Scientist (15 Minutes)

**Goal:** To closely observe and document a flower's external parts.

1. Ask the student to choose their favorite flower from the collection. This will be their "specimen."
2. Provide them with a piece of paper, drawing tools, and a magnifying glass.
3. **Instruction:** "You are now a flower scientist, also known as a botanist! Your job is to draw your flower specimen as accurately as you can. Use your magnifying glass to look at all the tiny details."
4. As they draw, guide them to identify and label the main parts. Help them find and write the words

for:

- **Petals:** The colorful parts that attract bees and butterflies.
- **Stem:** The long green stalk that holds the flower up and acts like a straw for water.
- **Leaves:** The green parts on the stem that soak up sunlight to make food.

### 3. Activity 2: Inside a Flower! (Dissection Fun) (10 Minutes)

**Goal:** To explore the inner structure of a flower in a hands-on way.

1. Place a flower (a lily or tulip is great for this) on the paper plate or tray.
2. **Instruction:** "We saw the outside, but now let's carefully see what's on the inside! We are going to perform a gentle flower dissection."
3. Guide the student to carefully pull off the parts one by one. Use fingers or child-safe tweezers. Arrange them on the plate.
  - First, gently remove the **petals**. Have them count how many there are.
  - Next, look for the parts in the very center. Point out the dusty parts (pollen) and explain that this is what bees collect to help make new flowers grow.
  - Finally, look at the **stem** and see how it connects to the flower head.
4. There is no right or wrong way to do this; the goal is exploration and discovery.

### 4. Creative Project: Design Your Own Super Flower! (15 Minutes)

**Goal:** To apply learning creatively and think critically.

1. Provide a fresh sheet of paper and drawing tools.
2. **Instruction:** "You've learned so much about how flowers work. Now it's your turn to invent a brand new, never-before-seen Super Flower!"
3. Encourage them to think about these questions as they design their flower:
  - What is your flower's name?
  - What color are its petals? Are they big or small? Do they have a pattern?
  - Does it have a special superpower? (e.g., Glows in the dark, smells like chocolate, changes colors with the weather).
  - What kind of animal would love to visit your flower? (A super-fast hummingbird? A tiny ladybug?)
4. Have them draw their Super Flower and be ready to share its story. This is the main assessment of their creative application of the lesson.

### 5. Wrap-Up: Flower Show and Tell (5 Minutes)

**Goal:** To share creations and reinforce the importance of flowers.

1. Ask the student to present their "Super Flower" drawing. Let them explain its name, its parts, and its special superpower.
2. Ask a concluding question: "Based on everything we learned, why do you think flowers are important?" Guide the conversation toward their role in nature (food for insects, making seeds, making the world beautiful).
3. You can display their Flower Scientist drawing and their Super Flower art side-by-side.

## Differentiation and Inclusivity

- **For Extra Support:** Focus only on identifying colors and counting petals. Pre-write the labels (petal, stem, leaf) for them to trace on their drawing. Use a flower with very large, simple parts like a sunflower.
- **For an Advanced Challenge:** Introduce more advanced parts during the dissection, such as the **pistil** (the very center part) and the **stamen** (the parts with the dusty pollen). Challenge them to write a short story about their Super Flower and the animal that visits it.
- **Kinesthetic Focus:** Spend more time on the dissection and less on the drawing. Have them sort the flower parts into piles (all petals together, all leaves together).