# 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.

- 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