

# DAY ONE PACKET

Group Member Names:

In *The Conservation Kid* documentary, we learned that Cash loves ocean animals, and that's why he wants to reduce the amount of trash that flows into the ocean from rivers. Pollution of local rivers not only harms animals, but it also harms plants.

## Turn-and-Talk

**What are sources of water pollution?** Record your response below.

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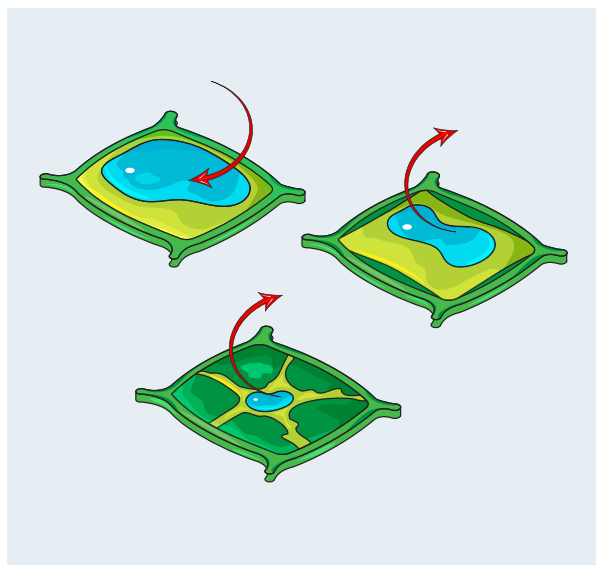
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## Activating Previous Knowledge

Plants need sunlight, nutrients, air, space and water to live and grow. The process by which plant roots absorb water from the soil is called

\_\_\_\_\_.

This is the natural movement of water across a semipermeable membrane from an area of \_\_\_\_\_ concentration to an area of \_\_\_\_\_ concentration.

## Turn-and-Talk

**What happens if a plant’s water source is polluted?**

Record your response below.

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In today’s Water Pollution and Plants Experiment, we will explore what happens if we affect the water source.

## Form a Hypothesis

**What do you think will happen and why?**

If we put food coloring in a plant’s water source, I think

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If we give a plant vinegar instead of water, I think

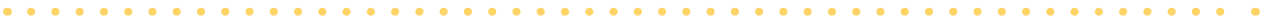
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### Your Group Will Need:

- 4-pack of water-based food coloring
- 6 of the same white flower
- 6 clear containers
- Vinegar
- Water
- Scissors
- Half cup measuring tool
- Ruler

## the CONSERVATION Kid - Grades 6-8

Your teacher will share instructions about how to gather your group's materials. Once your group has all your materials, work together to complete the following steps.



### Step 1

Measure a half cup of water into **four** of your containers.

### Step 2

Place **six drops** of food coloring into each container. Each container should be a different color. Label each container with the appropriate color.

### Step 3

Measure a **half cup of water** into another container. No food coloring will be added to this container. Label this container as "water only."

### Step 4

Measure a **half cup of vinegar** into your last container. No food coloring will be added to this container. Label this container as "vinegar."

### Step 5

Carefully using scissors, cut all six flower stems to the **same length**. Leave about two inches of stem above the top of the container. Carefully remove any extra leaves from the stems. All six flowers should look identical.

### Step 6

Place one flower into each of your six containers.

### Step 7

Let your teacher know you have completed the experiment setup.



**Your teacher will direct you to a designated place to leave your experiment overnight.**

**Tomorrow, we will observe the results!**