Cross Curricular Activity: Science

Lesson: How Do Stems Work?

Grade Level: 1-3

Overview: The exercise uses food coloring and plants to explain the function of a stem.

Approximate Duration: This exercise will use 20 minutes of class time for 2 consecutive days.

National Social Studies Standards: NS.K-4.3 Life Science

http://www.educationworld.com/standards/national/science/k 4.shtml

Objective: Students will learn how plants use their stems to transport water and nutrients to the rest of the plant.

Procedure:

Materials:

- 1. Straws
- 2. Paper cups
- 3. Water
- **4.** Stalk of celery
- **5.** Food coloring
- **6.** Paper
- **7.** Crayons
- Hand each student a straw and a paper cup.
- Pour a small portion of water into each cup.
- Tell the students that they are the plants and that their straw is the stem. Have the students drink the water in their cup through the straw.
- To further show the students how stems work take the celery and cut approximately one inch off the end, leaving the leaves. Place the stalk of celery into a glass of colored water with the leaves facing up. Tell the students that you are placing the celery in the colored water to see what happens overnight.
- Have the students draw what the celery looks like before the water has begun to travel up the stem.
- Wait one day and have the students examine the celery.

Assessment:

- Have the students draw what the celery looks like after one day of sitting in the colored water.
- Have students discuss what took place.

Inspired by: http://www.eduref.org/cgi-bin/printlessons.cgi/Virtual/Lessons/Science/