

## Celery Science Experiment – Transpiration

### MATERIALS NEEDED:

Leafy celery stalks (the inner stalks work best)

Food coloring

Water

4 small jars

### WHAT TO DO:

1. Start by filling four small jars about halfway full of water.
2. Add food coloring to each glass of water. (red, orange, blue and black work best)
3. Then add the celery stalks. Cut about an inch off each stalk before placing in water.
4. After 24 hours the leaves will have changed color to match the water.



### WHY THIS HAPPENS:

The celery leaves change color because the tiny tubes (xylem) in the plant drink up the water just like a straw. This process of water moving through a plant to its leaves, stems and flowers is called transpiration. If you look at the capillaries you will see they now match the color of the water, they were in. So cool! 👍