

Dear Educator,

During these uncertain times, Nutrients for Life Foundation wants to help you reach your students with engaging and relevant resources. These resources meet standards for K-2nd grade levels. Search state standards here: https://nutrientsforlife.org/forteachers/educator-resources/

K-2 Resources Available:

Fun with the Plant Nutrient Team Book 1 (Grades K,1)
Fun with the Plant Nutrient Team Book 2 (Grades 2,3)
Under Your Feet Exploring Soil Science Reader (Grades 1, 2)

Mini-Lessons Overview:

Plants Need: Plants all need sunlight, water and soil to grow. Students will learn these concepts through, reading, drawing, coloring, circling, and doing an art project. Have students do activity 1, 2 and make activity with worksheets 3.

Be a Soil Detective: Not all soil is the same. It can look different and have different nutrients. Children will watch a video on living vs. nonliving, examine a spoonful of soil and sort out living and nonliving objects, and sing a fun song to help young minds remember!

Watch and explore: https://www.generationgenius.com/videolessons/living-vs-non-living-things-video-for-kids/

Do activity sheet 4 and sing activity 5.

Seed Sort: Seeds come in all different shapes, colors and sizes.

Watch this video describing different types of seeds on how they differ and how they are alike: https://youtu.be/I agr-F38tQ. Then, sort seeds that you have around the house, in your garden, or seed packets. Have students draw a picture of the different seeds, noticing their similarities and differences. Next, start to germinate seeds and watch them grow using activity 6.

Root Review: Roots are vital to a plant's health. Ask students to examine some roots from either seedlings planted, a house plant, or outside plant. Ask student to draw a picture of the roots. Why might a plant have roots?

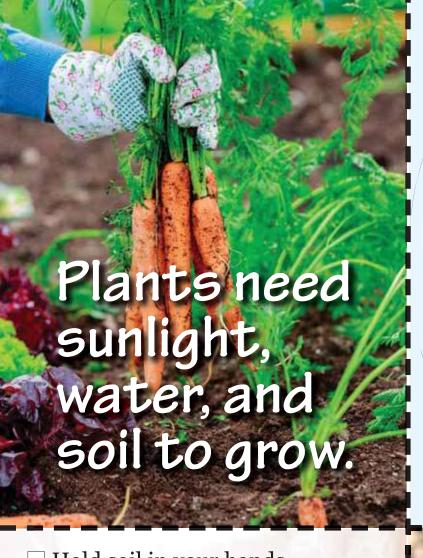
Then watch: https://youtu.be/jHde1styKR8

After watching the video, complete the attached celery investigation (activity sheet 7) to investigate how roots take up nutrients from the soil.

Summary: Give students activity sheets 8 to read and 9 to color. Then have them write why soil is important on activity sheet 10.

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CIRCLE THE RIGHT ANSWERS PLANTS NEED: LIGHT WATER LITTLE NUTRIENTS SWEATERS PLANT NUTRIENTS ARE IMPORTANT FOR PLANTS TO GROW. PLANTS GET NUTRIENTS FROM SOIL.



☐ Draw a picture of a raindrop.





PLANTS NEED CRAFT

Materials Needed: Worksheets with cutouts

Construction paper or paper

Straw

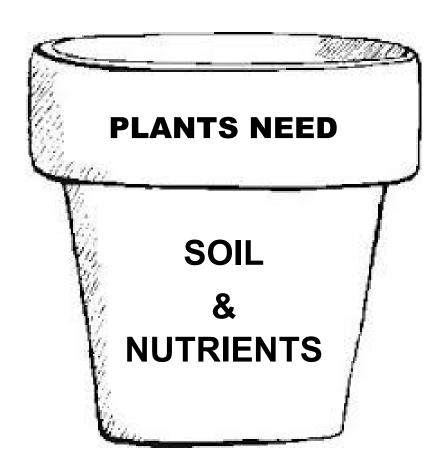
Yarn or string

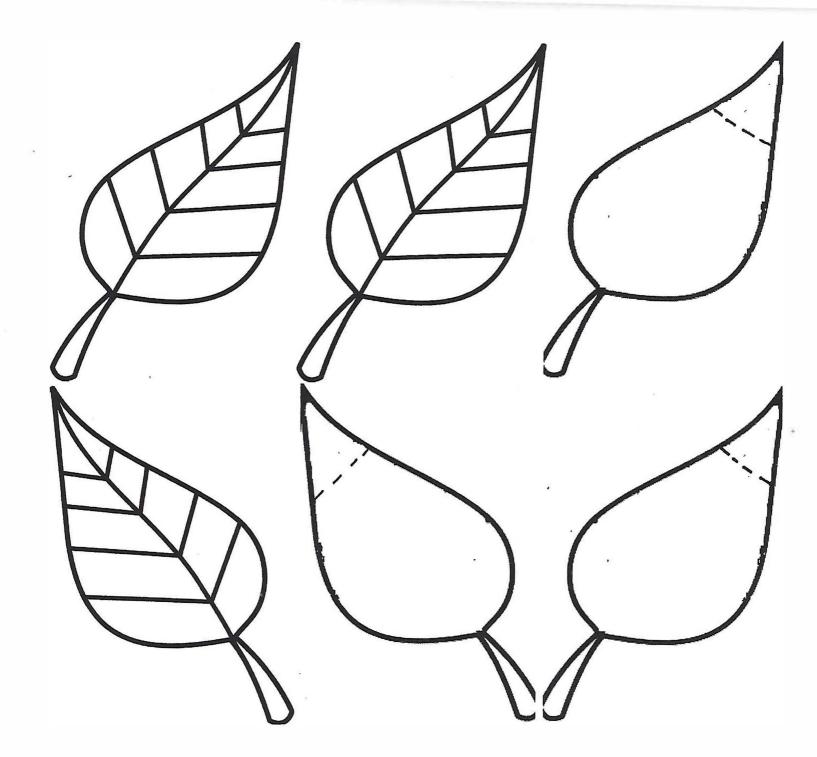
Muffin wrapper

Crayons (optional)



- 1. Cut and color (optional) the soil pot. Glue the outer edges to your 8 ½ X 11 paper so that you may still stick the straw down the middle.
- 2. Cut small pieces of yarn and glue to the bottom of the straw to represent the roots.
- 3. Use a muffin wrapper as the flower and glue to the stop of the straw.
- 4. Have student draw the three other items plants need besides nutrients (water, air, sunlight) on the blank leaves.
- 5. It's optional to color the lined leaf green and glue the top portion to the top of the blank leaf with student's drawing so that the leaf "flips" open.





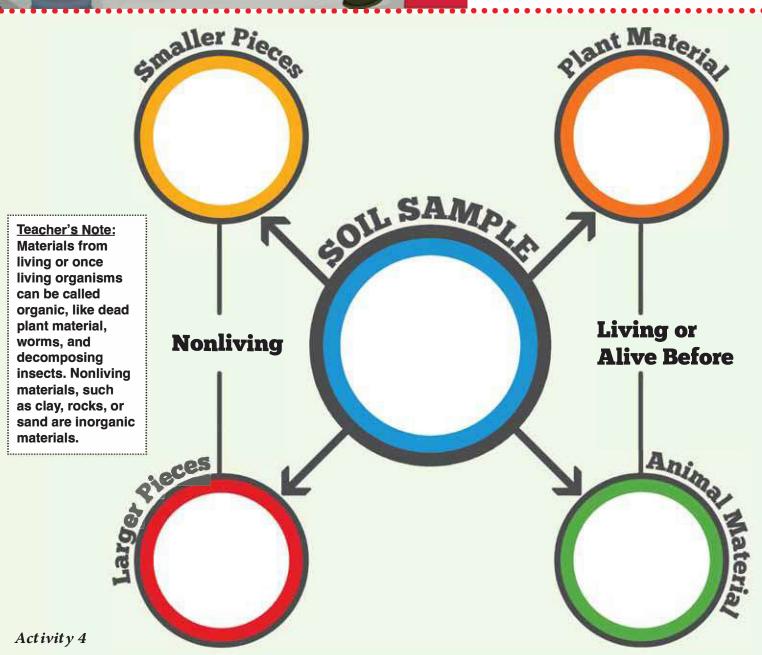


Not all soil is the same. It can look different and have different nutrients.

Try this: Use a magnifying glass to look at different types of soil.

Does soil from a lawn look different than the soil from a garden?

Put a spoonful of soil in the middle circle. Use a magnifying glass to sort the parts of soil into different piles.



The Living Song

(tune-Frere Jacques) (Adapted from "Learner Classroom)

It is living! It is living!

I know why!

I know why!

It eats and breathes and grows.

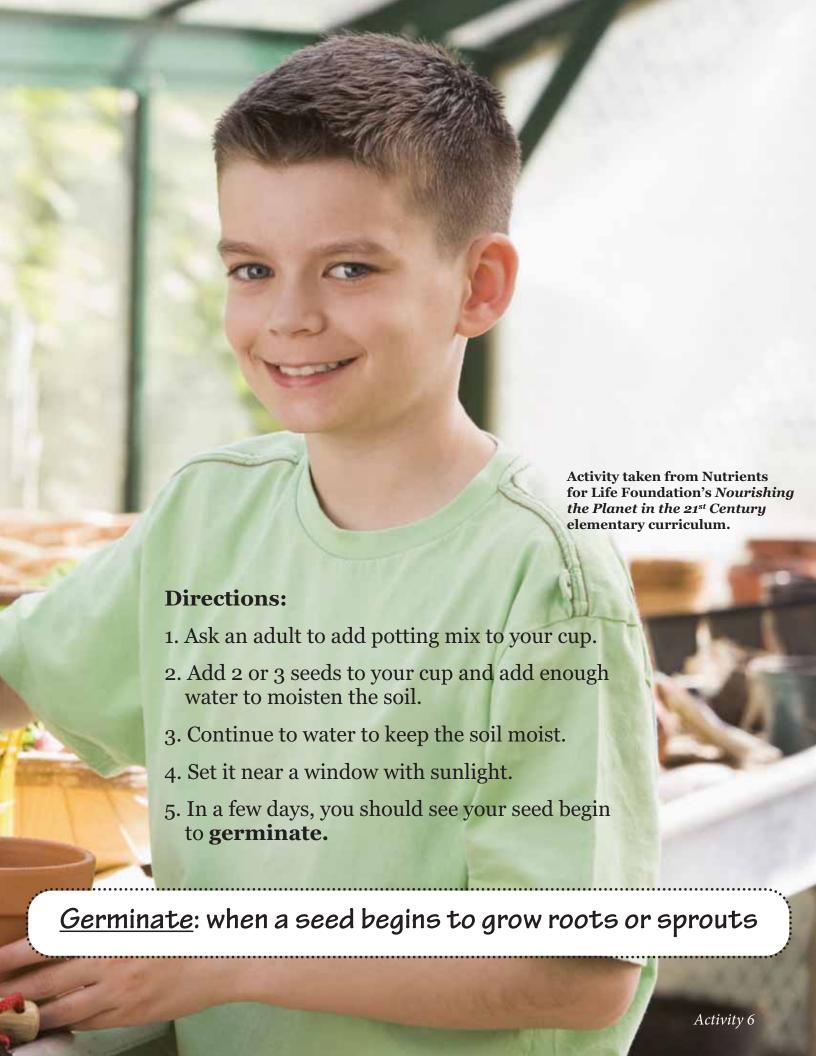
It eats and breathes and grows.

It's alive!

It's alive!

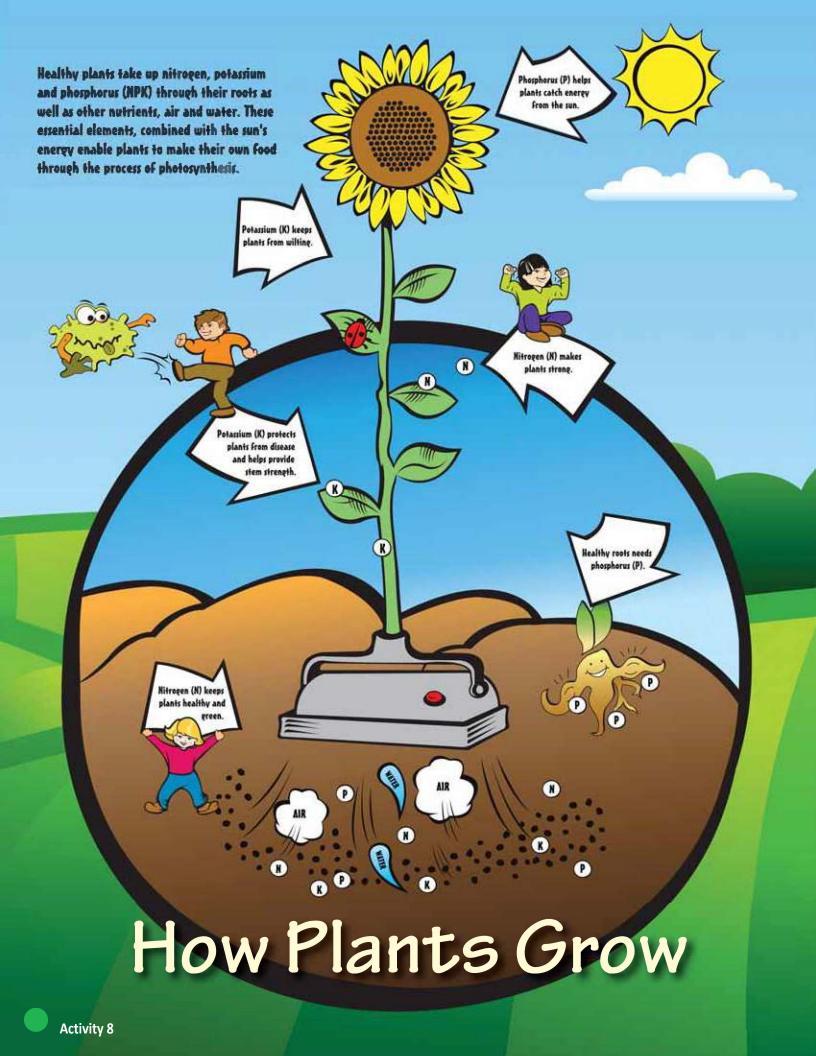
Activity 5

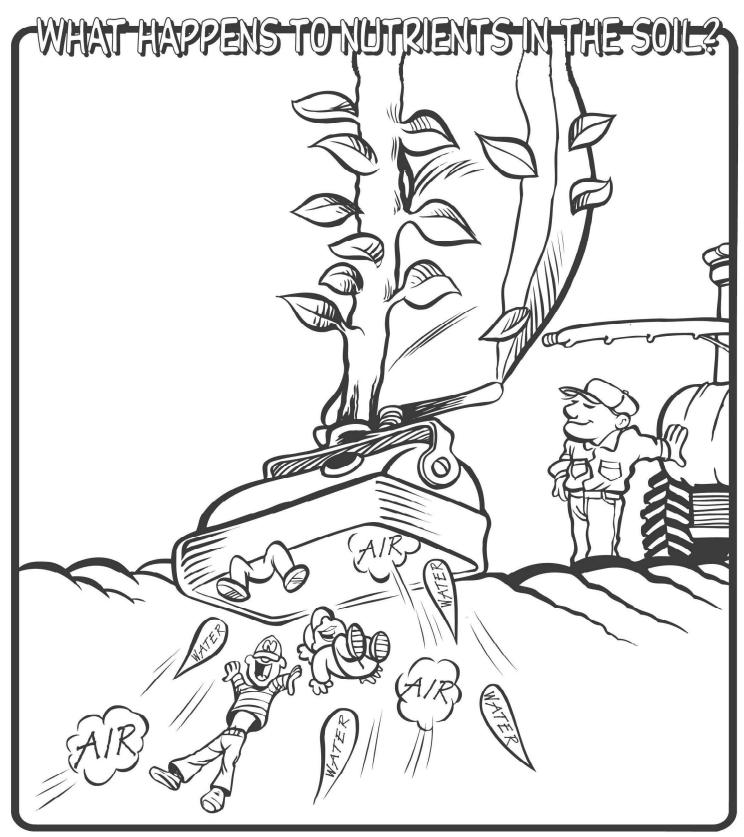




Celery Investigation

		Have an adult help you use a sharp knife to cut celery stalks into pieces approximately two inches long. Make sure that the cut surfaces are flat and will allow the celery to rest upright when placed into the paper cup. Pour food coloring into the cup. What do you think will happen to the celery and the food coloring when you put the celery in the cup? Write your prediction.
	3.)	Put the piece of celery into the cup so that one end of the celery is sitting in the food coloring Start timing when you put the celery in the cup.
		Write the time that you put the celery in the food coloring.
		GETTING WATER AND NUTRIENTS TO THE PLANT
	4.)	Leave the celery in the cup for 5 to 10 minutes. Do not move the cup or the celery during this time. Write your observations below.
		Write your observations after the celery has been in the food coloring for 5 minutes.
		Write your observations after the celery has been in the food coloring for 10 minutes. Draw a picture of what you see.





AS PLANTS GROW, THEIR ROOTS TAKE UP NUTRIENTS FROM THE SOIL. THAT'S WHY FARMERS NEED TO ADD MORE NUTRIENTS BACK INTO THE SOIL.

In your own words!

Why is soil important?

