UNDER YOUR JOUR FEEDET Exploring Soil Science

Grades 1 to 2



orange

pear



watermelon





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Where do fruits and vegetables come from?

Fruits and vegetables come from plants. These plants can grow in many places.

Soil Reader 2

Something to try

Grow your own vegetable! What does your plant need to grow?

Draw each material:

Vegetable seeds, like peas, radishes, or carrots **Cup or Pot**

Potting Mix (Soil)

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Activity taken from Nutrients for Life Foundation's *Nourishing the Planet in the* 21st Century elementary curriculum.

Directions:

- 1. Ask an adult to add potting mix to your cup.
- 2. Add 2 or 3 seeds to your cup and add enough water to moisten the soil.
- 3. Continue to water to keep the soil moist.
- 4. Set it near a window with sunlight.
- 5. In a few days, you should see your seed begin to **germinate.**

<u>Germinate</u>: when a seed begins to grow roots or sprouts

Important words!

Plant nutrients are important for plants to grow. Nutrients are found in the soil.

Dear Farmer Melissa,

Why is soil important to grow fruits and vegetables? How do fruits and vegetables get to the grocery store?

Sincerely, Jake First Grader at North Park Elementary Weeping Water, Nebraska

Dear Jake,

Most of the food you eat comes from farms. The farmers work hard to grow healthy plants. They sell the fruits or vegetables from the plants to grocery stores. Most fruits only grow in the warm months of spring and summer.

Soil gives plants the nutrients that they need to grow. Just like you need to eat healthy to grow, nutrients help plants grow.

Soil also helps the roots hold up the plant.

Sincerely, Farm<mark>er</mark> Melissa

Plants need sunlight, water, and soil to grow.

Hold soil in your hands. What does the soil feel like? Soil provides nutrients for plants. Draw a picture of a raindrop.

Stand in the sun. Does this make you feel warm or cold?



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.





Experiment

Does Soil Contain Water?



•Was your guess correct?

• Which paper had the largest wet mark? What did the paper placed over no soil look like?

• Why is water important in soil?



In your own words!

Why is soil important?



For more soil science and crop nutrient resources:



Info@NutrientsForLife.org Nutrients for Life Foundation 425 Third Street, S.W., Suite 950 Washington, D.C. 20024 Phone: (800) 962-9065 @Nutrients4Life www.nutrientsforlife.org



Check out these fun family activities. Available in both English and Spanish, these activities range from family farm trips to tips for growing a garden.

