
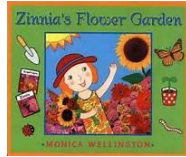


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| <p>Unit 5</p>  <p>Week 4</p> | <p><b>Outdoor Learning Opportunities:</b></p> <p>Spring Wildflowers – Water or Sunlight</p> | <p><b>Standards:</b><br/> <b>S.LS.PS.3</b><br/> <b>SED.SD.BRC.PS.1</b><br/> <b>ALT.RPS.PS.2-3</b></p> |
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| <p><b>Materials:</b></p> <ul style="list-style-type: none"> <li>● Seeds</li> <li>● Pots</li> <li>● Soil</li> <li>● Water</li> <li>● Sunlight</li> <li>● Ruler</li> <li>● Notebook</li> <li>● Pencils</li> <li>● Chart paper</li> <li>● Book: Zinnia's Flower Garden</li> </ul> | <p><b>Vocabulary:</b></p> <ul style="list-style-type: none"> <li>● Experiment</li> <li>● Sunlight</li> <li>● Wildflower</li> <li>● Seeds</li> </ul> |
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Spring wildflowers emerge before the trees' leaves have burst out. They grow on the forest floor and need the sunlight that comes through because the trees' leaves have not come out yet. To better understand what plants need to grow, the following experiment can be conducted.

As a class the children will create a controlled experiment to see what plants need to grow. Three groups will plant seeds in soil with the following differences. One group will have a plant that has access to water, but no sunlight. Another group will have a plant that has access to sunlight, but no water. A third group will have a plant that has access to sunlight and water. The children will collect data regarding the plants' growth each day for a month. After collecting data, the children can discuss why their plant grew or did not grow.

Extension: Use a wildflower guide and take the children on a hike to find wildflowers. There are many stories associated with these flowers. Children can design their own wildflower and decide what it needs to grow, therefore determining where it will need to live. They can make up their own story about their wildflower and draw a picture of it. Then make a class book.

**Guiding Questions:**

- What do plants need to grow?

- Can a plant grow if it does not have everything it needs?
- What does it mean to conduct an experiment?
- What are wildflowers and where can we find them? What do wildflowers need to grow?
- Why do wildflowers emerge before the trees' leaves are out?