



WEEK 4 Day

Discovery:
Planting a Different Way
 Children germinate bean seeds in a bag.

Big Ideas	Plants grow and change over time. They need light, water, and air to live and grow.
Guiding Question	How do plants grow and change over time? What do plants need to survive?
Vocabulary	germinate: when a seed starts to grow
Materials and Preparation	<ul style="list-style-type: none"> ● <i>From Seed to Plant</i>, Gail Gibbons ● <i>Dirt, the Scoop on Soil</i>, Natalie Rosinsky Place the texts nearby for children to reference. ● dried, uncooked beans/seeds, 3-4 per child Place the seeds in a shallow dish or tray. ● plastic ziplock bags, 1 per child ● paper towels, 1-2 pieces per child ● bowl of water ● thin markers, 1 per small group ● tape (masking or painters tape might work best to not leave sticky residue behind) ● blank white paper ● writing and drawing tools <p>Decide the best place to hang the plants. Identify a window with adequate sunlight and an area that is low enough for children to see their plants. Children will be writing/drawing in their Planting Journals, therefore, provide additional writing space such as another table, shelf top, or clipboards.</p>

	<p>Bring the following to the whole group meeting area for the Intro to Centers: 1 seed, 1 bag, 1 paper towel, bowl with water, 1 Planting Notebook</p>
<p>Intro to centers</p>	<p><i>A few weeks back, we read From Seed to Plant by Gail Gibbons. She provided us with so much information about how plants grow. We observed different kinds of seeds. We planted our own seeds. Do you remember what plants need to grow?</i></p> <p>Invite 2-3 responses.</p> <p><i>This week, we will plant again in the Discovery Center. This time, we will plan a little differently. We have beans. What do you notice about these beans?</i></p> <p>Pass around the seeds. Prompt children to describe the color, shape, size, and other observations.</p> <p><i>We will germinate these seeds in a different way than we did with the lettuce seeds. This time, we will not use soil, but instead use a ziplock bag and paper towel.</i></p> <p>Model putting the towel in the bowl of water, squeezing out the excess water, placing the beans in the towel, folding the towel, and then placing the towel in the ziplock bag. Show how to remove the access air and how to seal the bag tightly.</p> <p><i>We talked about what seeds need to grow. Where should we place these bags?</i></p> <p>Provide time for children to respond.</p> <p><i>Yes, I agree! These seeds need sunlight. So let's hang them on the window. After you write your name on your bag, you can tape it to this window.</i></p> <p><i>Remember that as scientists, we collect data.</i></p> <p>Model drawing a quick sketch of the seeds in the paper towels.</p>
<p>During Centers</p>	<p>Children will create their own bean bags. Individually, children will dip 1-2 pieces of paper towel in the bowl of water, squeeze out the excess water, place the beans in the towel, fold the towel, and then place the towel in the ziplock bag.</p> <p>Children label the bag with their name and tape it to the window.</p> <p>Then they sketch their observations on the blank paper.</p> <p>In the subsequent days. Encourage children to observe their beans and record their observations in their Planting Journals.</p>

Facilitation	<ul style="list-style-type: none">● What do you notice about these seeds?● What do these seeds need to survive and grow?● Why is it important to tape the seeds on this window?● How do these plants grow, in comparison to the lettuce seeds?● What do you think will happen to the seeds?
Standards	<p>SL.1.K.a Participate in collaborative conversations about kindergarten topics and texts with peers, and adults in small and larger groups.</p> <p>SL.3.K.b Add drawings or other visual displays to descriptions as desired to provide additional detail.</p> <p>VA.K.V.Cr.01. BOSTON Generate and conceptualize artistic ideas and work. Experiment with a wide variety of both two- and three-dimensional materials, including recycled/repurposed ones after looking at images from several artists who use those materials.</p>

Notes
