

UNIT 6: THINGS THAT GROW / WEEK 1

**Above and Below Garden Soil** 

# Enduring Understanding(s):

• Living things are part of interdependent systems.

# **Essential Question(s):**

• What do systems need in order to function successfully?

ELA.SL.PK4.1a ELA.W.PK4.5 M.MD.PK4.1 M.G.PK4.2 S.LS.PK4.2a S.LS.PK4.2a S.LS.PK4.4c SS.OW.PK4.5 PD.FM.PK4.3 PD.SHS.PK4.6 VA.CR1a.2.PK VA.CN10.1.PK

Standard Connection:

Materials	Vocabulary		Books
<ul> <li>Zinnia's Flower Garden</li> <li>The Ugly Vegetables</li> <li>variety of paper</li> </ul>	<b>above:</b> in a higher place <b>below:</b> in a lower	roots: the underground part of a plant	Zinnia's Flower Garden
Beautiful Stuff	place	<b>seed:</b> used to make a new plant	
<ul> <li>paint</li> <li>paintbrushes</li> <li>writing and drawing</li> </ul>	<b>garden:</b> an area where fruits, flowers, or	sign: a written label or direction	The Ugly Vegetables
utensils <ul> <li>images of above and</li> </ul>	vegetables are grown	<b>soil:</b> dirt for growing plants	by Grace Lin
<ul><li>below garden soil (see Resources)</li><li>adhesives</li></ul>	<b>insect:</b> a small animal with 6 legs and two wings	<b>stem:</b> the supportive part of a plant	

Intro to Centers			
Preparation: Set up materials.			
"In <i>Zinnia's Flower Garden</i> and in <i>The Ugly Vegetables</i> , Zinnia, the girl, and her mother planted <b>gardens</b> . What do you notice?"	Show illustrations. Children respond.		
"Here are images of gardens. What do you notice?"	Show images. Children respond.		
"The <b>gardens</b> are built on <b>soil</b> . What do you notice?"	Trace your finger across, above, and below the soil line. Children respond.		
"The <b>stems</b> , leaves, <b>garden signs</b> , and animals are <b>above</b> the <b>soil</b> . <b>Seeds</b> , <b>roots</b> , <b>insects</b> , and animals are <b>below</b> the soil."	Point above and below the soil line.		
"Today in Creative Arts, you can create a <b>garden</b> with these materials. Show <b>above</b> and <b>below</b> the <b>garden soil</b> ."	Show materials. Draw a horizontal line for soil. Model.		



# **During Centers:**

Encourage children to collaborate, e.g., one child depicts above the soil, another child depicts below the soil. Compare and contrast children's gardens to illustrations/images/each other's designs. Encourage children to create labels for/write descriptions of above/below their garden soil. Compare and contrast underground insects to nocturnal animals. Encourage children to create maps of above and below garden soil.

## **Guiding Questions During Centers:**

- How are underground insects/animals similar to or different from nocturnal animals?
- How are above-ground insects/ animals similar to or different from underground insects/animals?
- How is a map of above/below your garden soil helpful?
- How did you use Beautiful Stuff to create above and below your garden?

## Thinking and Feedback:

Invite children to share their processes. Encourage children to describe any challenges they might have encountered.

### Documentation:

Collect samples of the children's work as well as photographs of their process; use the documentation to launch a discussion during Thinking and Feedback.

### **Provocation:**

Encourage children to create a collaborative collage of above and below garden soil. Plant lima beans from Planting Seeds in clear containers for children to observe plant growth above and below the soil.

Encourage children to make other above/underground connections- trains/subways, bridges/ tunnels, etc.

### **Differentiation/Accommodation:**

For Intro to Centers, children with limited verbal skills can use a pre-programmed voice output device to answer questions about the story. (Keep in mind these will likely be closed-ended questions, as those are easiest to program into devices.) This can also be used to help students answer Guiding Questions. During Centers, provide a variety of materials to meet the children's fine motor and sensory needs. Strategically partner children together for collaboration.

