

UNIT 6: THINGS THAT GROW / WEEK 1 Sorting Beans

Enduring Understanding(s):

- Living things need food, water, and proper conditions to survive and thrive.
- Living things are part of interdependent systems.

Essential Question(s):

- How do people impact the environment in positive or negative ways?
- How do living things respond and adapt to their environments?

Materials	Vocabulary		Books
 Zinnia's Flower Garden variety of seeds/dry beans 	attribute: a thing's shape, size, or color		Zinnia's Flower Garden
 small containers for sorting 	 bean: a type of seed garden: an area where fruits, flowers, or vegetables are grown group: things of the same kind or type 	plant: to put seeds in the dirt to grow	
index cards for labelswriting utensilssmall tongs or tweezers		seed: used to make a new plant	
 magnifying glasses images of seeds (see Resource) 		sort: to group by size, shape, or color	

Intro to Centers			
Preparation: Set up materials.			
"In <i>Zinnia's Flower Garden</i> , Zinnia planted seeds in her garden . What do you notice?"	Show illustrations. Children respond.		
"Here are images of seeds . What do you notice?"	Show images. Children respond.		
"The seeds' attributes - their shapes, sizes, and colors - are different."	Show images.		
"Here is a container of beans - a type of seed . What do you notice?"	Show materials. Children respond.		
"How could we sort the beans into groups ?"	Children respond. Model.		
"This group of beans could be labeled because they are the same (size). This other group of beans could be labeled because they are the same (color)."	Model writing labels for the two groups of beans.		
"Today in Science, you can sort beans into groups and create labels for the groups with these materials."	Show materials.		



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Standard Connection: ELA.L.PK4.1e ELA.W.PK4.5 M.CC.PK4.5a M.MD.PK4.3 S.PS.PK4.1 S.T.PK4.2 SS.OW.PK4.1 PD.FM.PK4.2 PD.SHS.PK4.3

During Centers:

Encourage children to collaborate, e.g., one child can sort, another child creates the labels. Encourage children to play Building Blocks Guess My Rule. Encourage children to compare and contrast their groups to the illustrations/images/each other's groups. Encourage children to use their bean groups in Garden Center and Beans.

Guiding Questions During Centers:

- How is sorting beans similar to or different from making collections?
- How is your group of beans similar to or different from your friend's group of seeds/illustrations/images?
- Which group has more/ less beans? How do you know?
- What is _____'s rule for his bean group? How do you know?
- How is using a magnifying glass helpful in sorting beans?

Thinking and Feedback:

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

Documentation:

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

Provocation:

Encourage children to research seeds that are used in food, e.g., chili, trail mix, soup, etc. Encourage families to share dishes that use seeds/beans.

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, strategically partner children for collaboration. Provide larger manipulatives for children to sort if needed for fine motor or sensory challenges.

