

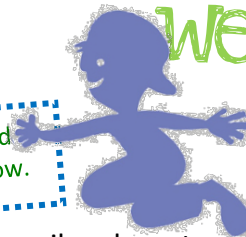
Seeds & Roots

day one

Learn, Grow, Eat & Go!

EARLY CHILDHOOD

week 2



LESSON A: How Do Seeds Grow?

Objectives: Students will be introduced to seeds and learn they need water, soil and sun to grow.

Materials: Seed packet

Time: 10 minutes

Lesson Narrative:

1. Raise your hand if your family grows a garden. Show a picture of a garden.
2. How do all of those plants grow? Pass around a packet of seed. Explain how a seed grows. It needs water, soil and sun for the plants to grow.
3. This week we are going to learn about seeds and watch how they grow. A plant starts to grow because of a seed. Seeds like these give us food to eat so our bodies grow big and strong.
4. This week during our center time, you will be able to explore many different types of seeds.



LESSON B: Seed Dissection



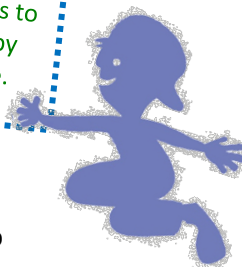
Objectives: Students will explore and separate parts of a softened lima bean

Time: 10 minutes

Materials/Prep:

- Soak seeds overnight in a bowl of water prior to teaching the lesson.
- Have seeds available that are un-soaked
- Paper plates

Explore seeds to find the baby plant inside.



Lesson Narrative:

1. Give each student a paper plate along with a several soaked and an un-soaked lima bean.
2. Look at these seeds. Do you think you can pull your seed apart? The students will try to successfully open the seeds that have been soaked. The soaked seeds have started growing. That is a baby plant starting to grow inside the seed. The seed is a covering to protect the baby plant inside. This is the beginning of germination. Continue to allow the students to play with their seeds and discuss what they see.
3. These seeds will be at the science center for us to explore (and play with) during centers.

PILOT DRAFT

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Seeds & Roots: day one

Learn, Grow, Eat & Go!
EARLY CHILDHOOD

ACTIVITY: Bean See-D

Objective: Students will observe the changes in seeds as they germinate .

Materials/Prep: Small bag of potting soil, clear plastic CD cases* (1 per student), lima beans (2 per student) water, small cup, clear tape (*If CD cases are unavailable, use a zip lock baggie or glass jar.)

- Soak the lima beans in a cup of water the day before the activity.
- Open the CD case and remove the booklet insert. This will leave an opening for watering.
- Lay the CD case on a flat surface and have students add a small amount of dirt and the 2 lima beans inside the case.
- Close the case and tape the bottom and sides.
- Label the CD cases with students' names.
- Place the CD cases near a window and water every day.
- Students will observe the daily growth of the lima bean. The roots should be visible within one day.

plant a lima bean
inside a CD Case!

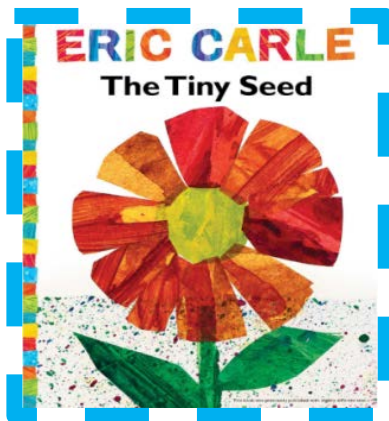


PILOT DRAFT

Lesson Narrative:

1. Today we are going to plant a lima bean. We will watch the seed change and grow in the container. What do you think you will see?
2. What does the seed need to grow? (Listen for answers: Sun, soil, water....)
3. Where in our room should we put the CD cases to get the most sun?
4. Let's estimate how many days it will take to see the seed "sprout". Make a chart with each child's prediction.

Literature Connection:



Use the featured books to do a picture walk or discuss daily during this week. Below are some questions that can be discussed during the read aloud. Pick 1 or 2 questions each time you read or discuss the book.

1. Do you think the tiny seed will grow into a plant?
2. What kind of plant do you think it will grow into?
3. Why can't the seed grow on the ice?
4. Why can't the seed grow in the desert?
5. What does the seed need to grow?
6. What is a weed?
7. Why can't the plant grow after a child breaks it or picks it?
8. What do you think will happen to the flower's tiny seeds that sail away in the wind?

today's garden journal prompt:

Draw a picture of what you think a seed and root look like planted in the ground.

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