



Young
Audiences
Arts for
Learning
Massachusetts

Andrea & Liz: Butterflies, Frogs, and Flowers, Oh My!: Songs and Stories for Science Learning [Plants & Seeds]

For Educators

About the Performance

Plants and Seeds: Join Andrea & Liz to learn, through interactive stories and songs, about how seeds grow into plants, flowers, and trees. Students will act out the life cycle of a plant from seed to tree, and brainstorm the many things a seed can become. They'll also learn about caring for plants by providing rich soil, water and sun, and other tips for good stewardship of the Earth. Folk tales will add dimension about the importance of seeds and plants to several different cultures.

Program Learning Goals

1. Students will understand that the life cycles of creatures and plants follow a logical sequence, with a beginning, middle and end.
2. Students will learn about different types of plants that grow from seeds, and what's required for seeds to grow.
3. Students will make connections between science content and folk tales and songs from American and world cultures (STEAM).

Essential Questions

1. How do plants change as they grow?
2. What is our responsibility to care for the plants and animals around us?
3. Why is it important to respect and care for the earth and living creatures?

Important Vocabulary

Life Cycle: The series of changes in the life of an organism

Environment: The surroundings or conditions in which a person, animal, or plant lives

Earth: The planet on which we live; the world

Seed: The "egg" of a plant; the part of the flower or fruit of a plant that grows into a new plant

ALSO: *Seedling, roots, stem, leaf, petal, nectar, proboscis* (see attached diagram)

Post-Performance Discussion Questions

1. What are the different stages in the life cycle of a plant?
2. Do humans have a life cycle? How do we change as we grow?
3. How can we help plants, flowers and trees grow up to be healthy and strong?

Post-Performance Discussion Questions

BOOK LIST: [Children's Books About Plants and Seeds \[Hyper Link\]](#)



About the Program

Join Andrea & Liz to learn about how seeds grow into plants, flowers, and trees. Together we will act out the life cycle of a plant from seed to tree, and brainstorm the many things a seed can become. We'll also learn about caring for plants by providing rich soil, water and sun, and hear stories about plants and seeds from different cultures.

Pre-Show Activity: The Tiny Seed

Read or watch the story *The Tiny Seed* written and illustrated by Eric Carle with a grown up or friend and talk about these questions:



[Click here to watch *The Tiny Seed* Read Aloud Video](#)

1. Why do you think the seeds that landed on the snowy mountain, in the ocean, and in the hot, dry desert never grew?
2. How did the tiny seed change throughout the story?
3. What did the seed need to grow into a flower?
4. Have you ever planted a seed? What kind of plant did it grow into?



Seeds



Sprouts



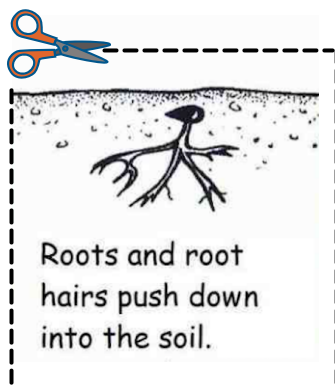
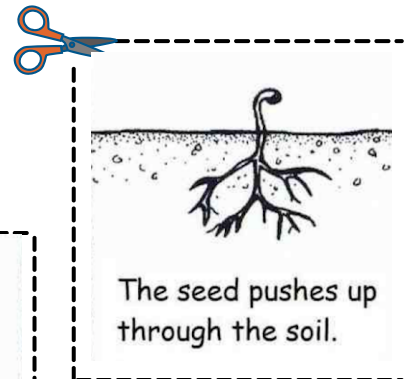
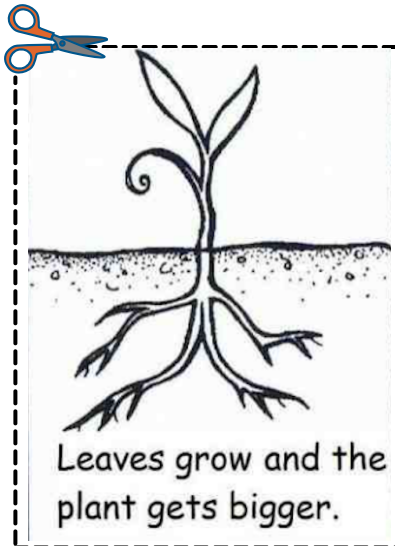
Seedlings

Post-Show Activity: Sequencing the Life Cycle of a Plant

- Watch the video about "How Does a Seed Become a Plant?"

[Click here to watch the video "How Does a Seed Become a Plant?"](#)

- Cut out the pictures below. You can color them in if you like.
- Can you put the pictures in order? What comes first? What comes next? What comes last?



- Using your pictures, can you tell a parent, your teacher, a sibling or a friend, the story of the life cycle of a plant?
- Think about your own life cycle. How have you changed as you got older? Can you draw or write the story of your life cycle?