My Seed Picture

Draw and label the parts of a seed.
Use the diagram on page 1 to help you.

Write one fact you learned about the life cycle of a flowering plant.

by ________________________________
It's All in the Seed

A plant's life begins with its seed. The seed contains everything a plant needs to grow. The seed has an embryo, which grows into a new plant. It also contains food for the embryo to use as it grows.

Pollination.

How do each of the following help plants grow?

Insects:

Animals:

Pollen sticks to other blossoms. The pollen fertilizes eggs in other blossoms. This is called pollination. Pollen sticks to the insects, which carry it to other flowers. The pollen fertilizes eggs in other blossoms. This is also called pollination.

A plant's life begins with its seed. The seed contains everything the plant needs to grow.
A coat protects us from the cold. Why do you think seeds have coats?

Why do you think seeds have their own food storage?


Life Cycle of a Flowering Plant
What happens to a seed after you plant it?

1. The seed becomes soaked with water. This is called germination.

2. The shoots grow deep into the soil. The roots grow deep into the soil. The seed becomes soaked with water. The shoot breaks through the soil. The shoot breaks through the soil. The embryo breaks through the seed coat.

3. The root grows into the soil. The shoot is now a stem. More leaves grow from the stem. The shoot breaks through the soil. Leaves grow from the shoot. The shoot is now a stem.


Follow the steps to find out!
Extension Activity

Life Cycle of a Flowering Plant

Point out that animals sometimes play a role in spreading seeds to other places. Then ask: What are some other ways that seeds might get spread around? After sharing their ideas, have students work in pairs to research different ways seeds travel. Discuss students’ findings, then ask each student to write a first person account of a seed that left its plant to travel to other places. How did it travel? What happened to it along the way? Did it get planted? What kind of plant did it grow into? Did its own seeds leave and travel elsewhere? Encourage students to tell a complete story about their travels and life as a plant. When finished, invite them to illustrate their stories and then share them with the class.

How to Use The Booklet

This booklet can be completed as homework or during class. Before students begin, walk them through each page so that they clearly understand the writing prompts and any challenges in the text, such as charts or diagrams. If students need additional support, guide them as they work on each section of the booklet. You might have students complete the booklet over the course of several days, working on a few pages at a time.

How to Assemble the Booklet

It works well to assemble the booklets together as a class. You might make one in advance to use as a model when introducing the booklet to students.

Directions:

1. Print the booklet.
2. Make double-sided copies of each page on standard 8 1/2-by 11-inch paper.
3. Fold each page in half along the solid line.
4. Place the pages in numerical order and staple along the spine.

Tip: You may want to have students fill in their booklets before stapling them. This way the center pages will lie flat while they write in their responses.

Activate Prior Knowledge: Introduce the booklet with a discussion that activates students’ prior knowledge. Ask what they know about the topic, what they think they’ll learn when they complete the booklet, and what they would like to learn about the topic.

Walk Through the Booklet: After introducing the booklet and discussing the topic, walk through the pages together to satisfy children’s curiosity and to clarify the instructions. Point out the writing and drawing prompts and explain to students that although everyone is starting with the same booklet, they will each have a unique book when they are finished.

Read, Write, and Learn!: Read and discuss the text together, pointing out vocabulary words and raising questions. Then move on to the accompanying writing prompts. Generate possible answers with students. Encourage students to write in complete sentences. Talk about what they learned from a particular section. Were they surprised about something they learned? Do they want to know more about a particular topic or piece of information?

Share: At various points in the bookmaking process, have students share their written responses with their classmates. Draw attention to the similarities and differences in the responses.