



Seeds Soil & Surprises

SECTION 1:

What are the Parts of a Plant?

Teaching Resource for Grades K-2



Quick Guide



Time to Complete



Preparation Time: Up to 10 minutes



Preparation Time: Up to 30 minutes



Key Question

What are the parts of a plant?



Key Take Away

The parts of a plant are the seed, roots, stems, and leaves.



Key Task

Use the presentation to encourage inquiry as to the appearance and function of plant parts, and to Observe & Interpret the similarities and differences of the same parts between plants.

PART 1: Seeds



Start Presentation

PAUSE ON SLIDE #7



Things to Point Out

Like us, they start small, as seeds.





Observe & Interpret

- What do you notice about these seeds?
- Do they look the same or different?
- What colors, shapes, and sizes are they?
- How do you think seeds get from one place to another?
- What do you think is inside the seed?



Continue Presentation

PAUSE ON SLIDE #8



Things to Point Out

- Seeds find homes to grow in many different ways.
- Sometimes it depends on the environment, sometimes it depends on the qualities of the seed. For instance, a small seed may be blown by the wind to a certain location.
- A seed that grows in a wet area and has the ability to float may travel by water, such as via a stream.
- And finally, people transport seeds from one place to another to grow certain kinds of plants!



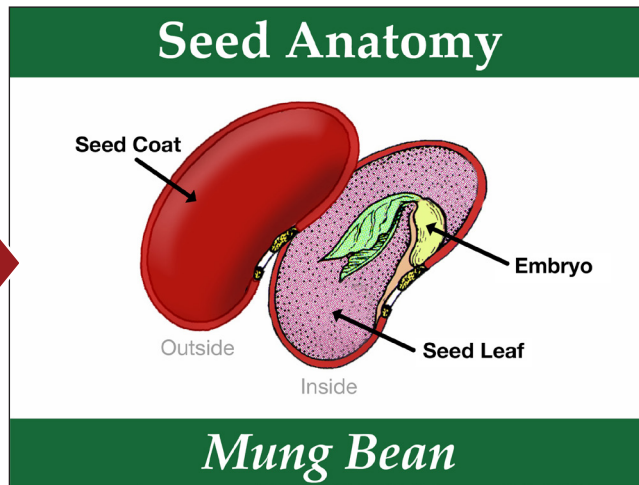
Reinforce

These are some ways seeds travel.
But what is a seed itself, and what does it look like inside?



Continue
Presentation

PAUSE ON SLIDE #9



Things to
Point Out

- A seed is actually a baby plant protected by an outer shell called a coat.
- Inside of the coat, there is the tiny baby plant [embryo], plus a food supply to help the baby plant grow [endosperm].
- When the baby plant has had enough nourishment, it may start to come out of the seed coat and develop certain parts of the plant.

PART 2: Roots

Continue
Presentation

PAUSE ON SLIDE #13





Things to Point Out

The first parts that grow from the seed are the roots.



Observe & Interpret

- What do you think the roots do for the plant?
- Why might they be important?
- Do all these roots look the same?

PART 3: Stems



Advance Presentation

PAUSE ON SLIDE #17



Things to Point Out

Once the roots start to grow down, the plant sends up a stem.



Encourage Careful Looking

- What do you think the stem does for the plant?
- Why might it be important?
- Do all these stems look the same?



PART 4: Leaves

Advance Presentation

PAUSE ON SLIDE #21



Things to Point Out

The plant then grows leaves from the stem.

Observe & Interpret

- What do you notice about these leaves?
- Do they look the same or different?
- What colors, shapes, and sizes are they?
- Why might leaves be important for the plant?

Conclude Presentation

END ON SLIDE #23

