



WINDOW GREENHOUSE

MATERIALS:

Pinto Bean
Lima Bean
Northern Bean
Zip Loc Sandwich Bag
Tape
Plant Journal

Paper Towel
Water
Greenhouse Template
Scissors
Bowl

VOCABULARY:

Plant
Sun
Leaves
Air
Oxygen

Seed
Sunlight
Germination
Cells

Bean
Water
Species
Cellulose

Sprout
Soil
Photosynthesis
Carbon Dioxide

DIRECTIONS:

1. Gather your materials.
2. Cover the beans with water in a bowl. Soak them overnight. (Soaking the beans will help them sprout faster.)
3. Fold the paper towel in half and cut it so that it fits in the zippered sandwich bag.
4. Dampen the towel. Gently wring it out so that it's still damp but not dripping.
5. Place the damp towel inside the bag.
6. Place the beans on the paper towel inside the bag, an inch or two from the bottom.
7. Cut out the house shape, then cut out the window for the bag to peek through. Make sure the window is large enough to see all your beans, with room to grow! If you want, draw on the greenhouse with markers or decorate it with paper cut-outs.
8. Tape the bag to the bag of the frame. Then tape the frame to a window, with the seeds facing inside so that you can see them sprout. Keep track of how your seeds grow with your Plant Journal.

THE STEAM BEHIND THE EXPERIMENT:

Beans and peas are seeds that contain dormant (sleeping) baby plants.

These tiny plants need signals to make them "wake up" and emerge from the seed. These signals include adding water, sunlight, air and soil. Germination is the name for the processes the plant goes through in order to sprout from the seed and form leaves.

Hundreds of thousands of different species, or kinds, of plant grow on Earth. Some plants are so tiny that people can hardly see them. Others are trees that grow as tall as skyscrapers.

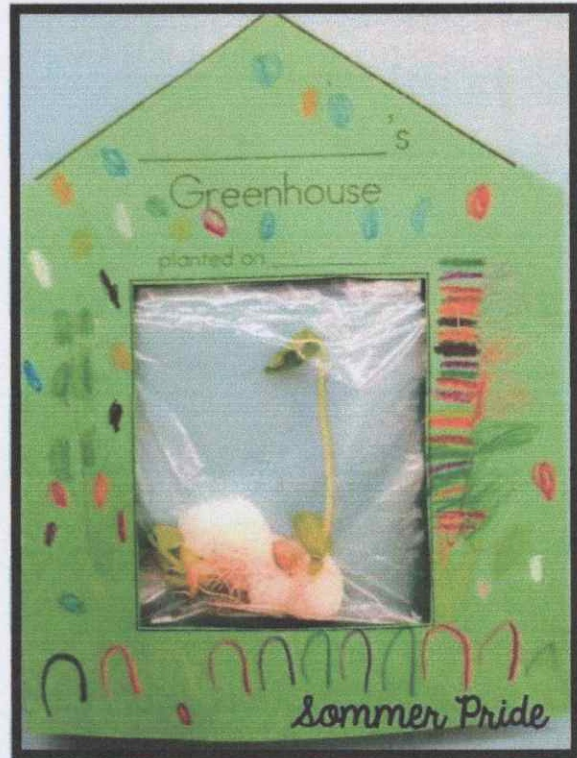
Most plants have several things in common. They need sunshine, water, and air to grow. They are not able to move around. Their cells have stiff walls made of a tough material called cellulose. All green plants use the Sun's energy, water, and a gas called carbon dioxide to make their own food. This process is called photosynthesis.

MAKE IT AWESOME:

Once your beans have sprouted, plant them in pots with soil to grow your plants.

EXTENSIONS:

1. Try the experiment again with different seeds or beans.
2. Try the experiment again but place the greenhouses in different places with different amounts of sunlight.
3. What other changes can you come up with for this experiment?



WEBSITES AND VIDEOS:

1. Window Baggie Greenhouse: <https://ziploc.com/en/Inspiration/Stem-Activities/Ages-5-8/Window-Greenhouse>
2. Plastic Cup Greenhouse: <https://www.thehandmadehome.net/simple-greenhouse-for-kids/>
3. Video: Make a Window Greenhouse: <https://youtu.be/TNe0WRfIQOk>

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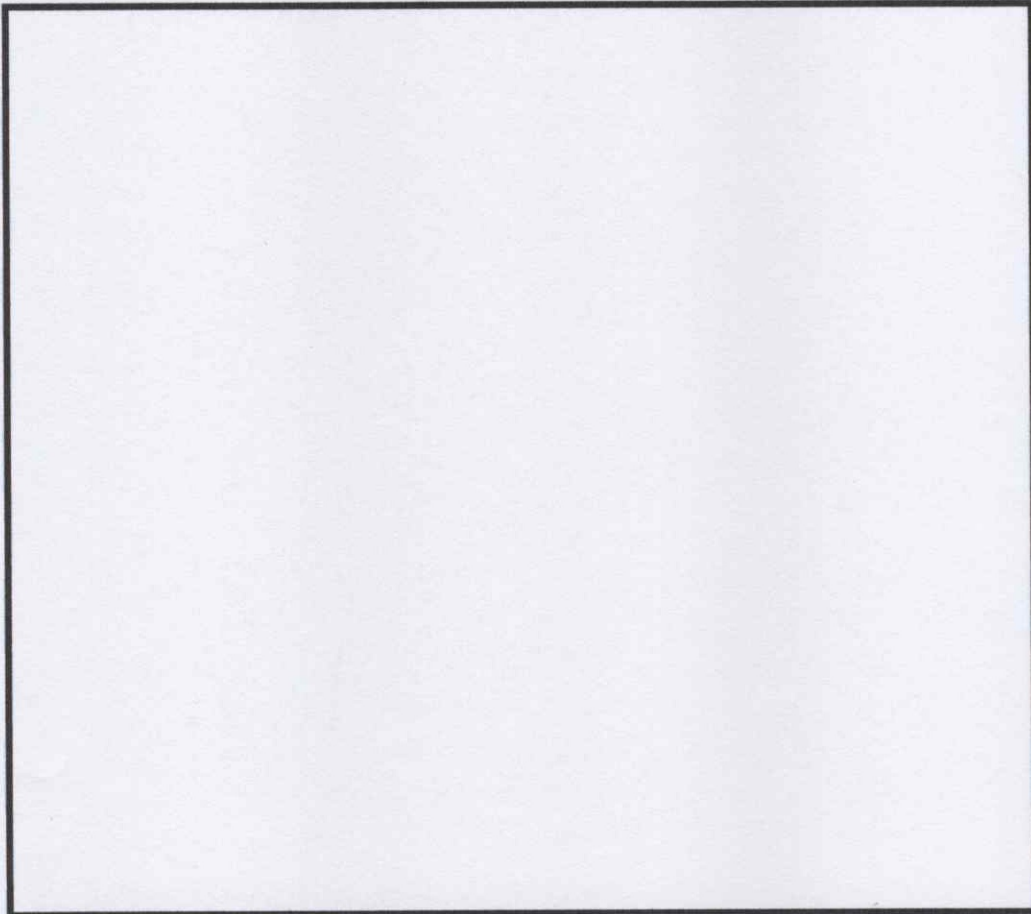


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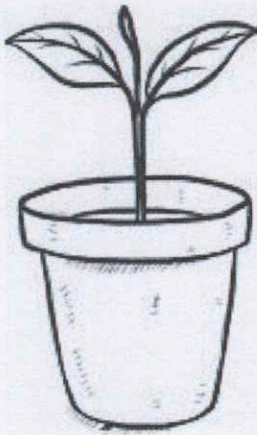
_____ 'S

GREENHOUSE

PLANTED ON: _____



MY PLANT JOURNAL



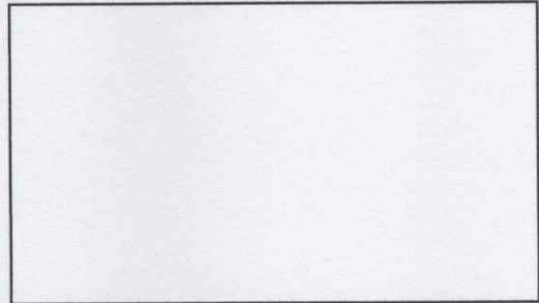
NAME



I PLANTED:

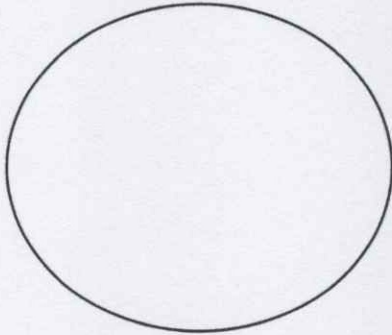
DATE PLANTED:

**WHAT I THINK MY PLANT WILL
LOOK LIKE:**



DAY ___ OBSERVATION

Draw a picture of your plant:



I saw plant growth: ___ Yes ___ No

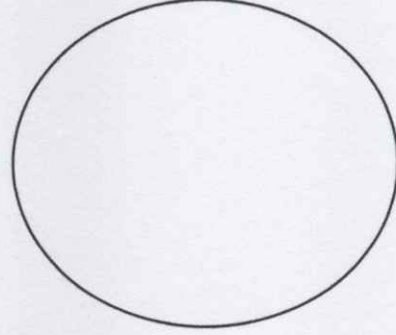
I watered my plant: ___ Yes ___ No

Weather: ___ Sunny ___ Cloudy ___ Rain

I see: _____

DAY ___ OBSERVATION

Draw a picture of your plant:



I saw plant growth: ___ Yes ___ No

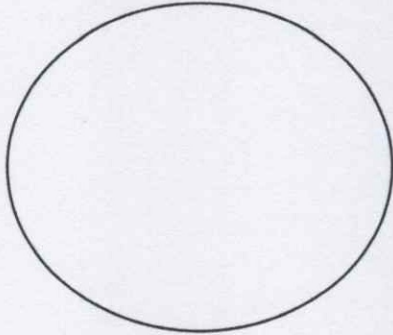
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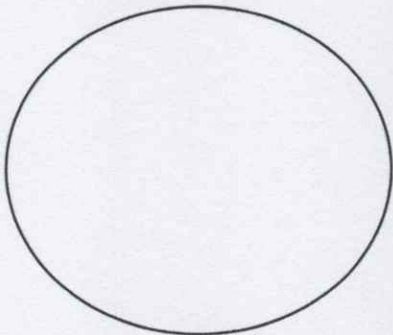
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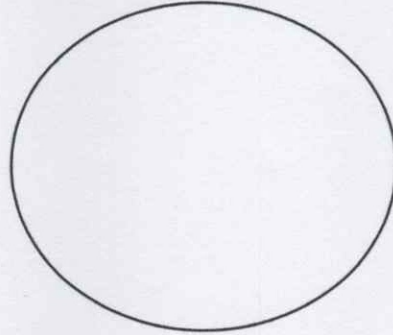
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