

# Germinating Seeds in a Bag: Science Experiment for Kids

Germinating seeds in a bag is a fun way for kids to view how seeds transform into plants. Seeds don't need soil to start germinating, so you can place them in a sunny window and they will start sprouting right away. This allows kids to watch how seeds sprout, which is a process normally hidden by dirt. There is a lot to learn in this experiment, yet it is so simple to do! As long as you have dried beans and some plastic bags, you can make these seed germinating bags.



Materials Needed for the Germinating Seeds in a Bag Experiment:

- Bean seeds
- Small plastic zipper storage bag
- Dried, uncooked beans, peas, or seeds
- Paper towels
- Water
- Tape



Before starting the experiment, soak your bean seeds overnight in water. This will sort of “wake up” the seeds and get them ready to germinate. You’ll get faster results if you pre-soak your bean seeds this way. Drain the seeds before placing them in the bag.

Dampen a paper towel and fold it into the bag.



Place the seeds along one side of the bag, pressing them against the paper towel. Seal the bag tightly and hang in a window using tape.

Make sure the beans are visible on the side of the window where your child will be observing their seeds sprout.

Wait 24 hours. You should be able to see the seeds start to pop open and sprout after this time.



Within 3 days to a week, you'll have fully sprouted seeds



In a few more days, you'll see the leaves start to emerge.



At this point, your beans are ready to move to soil. Plant them in a rainboot garden, or another small planter and watch them continue to grow!

## **Creative Enrichment**

- Record the beans' germination by drawing and measuring them each day. Have your child make a science notebook and use it to record his or her observations.
- What happens if you do the same experiment, but put one bag of beans in a window, and another one in a dark closet?
- Plant more than one type of bean or seed to compare how quickly they grow.

## **- Video: What Are Plants?**

[https://watchandlearn.scholastic.com/videos/animals-and-plants/plants/what-are-plants.html?promo\\_code=6294&magazineName=classroommagazines](https://watchandlearn.scholastic.com/videos/animals-and-plants/plants/what-are-plants.html?promo_code=6294&magazineName=classroommagazines)

## **How Does A Seed Become A Plant?**

<https://www.youtube.com/watch?v=tkFPyue5X3Q>

# Seed Observation Journal



Name \_\_\_\_\_

Type of Seeds Planted \_\_\_\_\_

Date Seeds Planted \_\_\_\_\_

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Draw and record your observations each day.

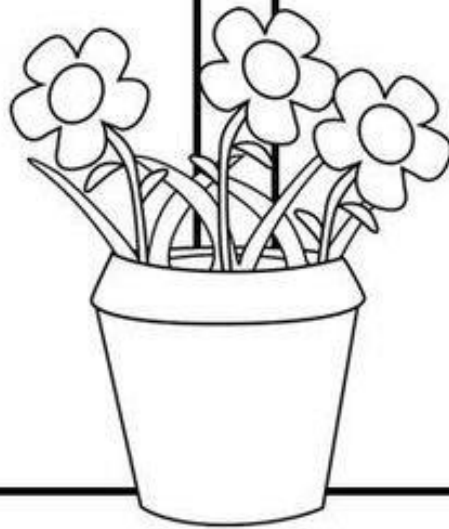
DAY 1	DAY ____	DAY ____
DAY ____	DAY ____	DAY ____

Name \_\_\_\_\_

Sort the words into the correct box.

Plant Parts

Plant Needs



seeds

sunlight

leaves

water

fruit

flower

air

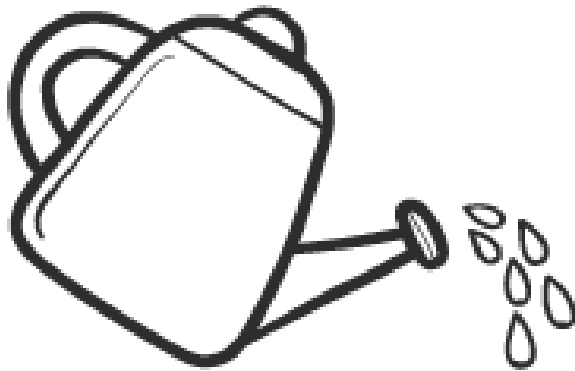
soil

stem

roots

# What do plants need to grow?

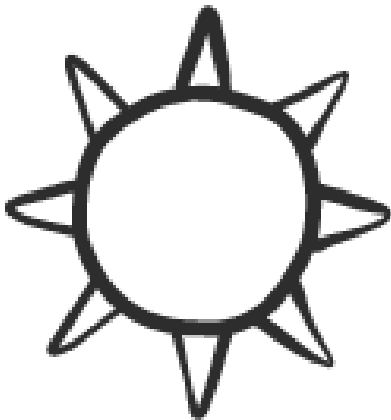
Color the pictures. Match each picture with the correct word



sun



air

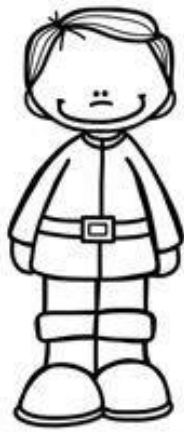


soil



water

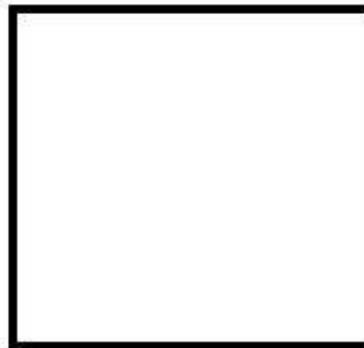
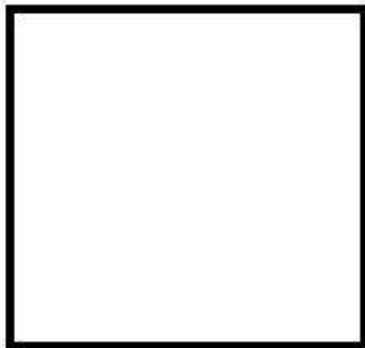
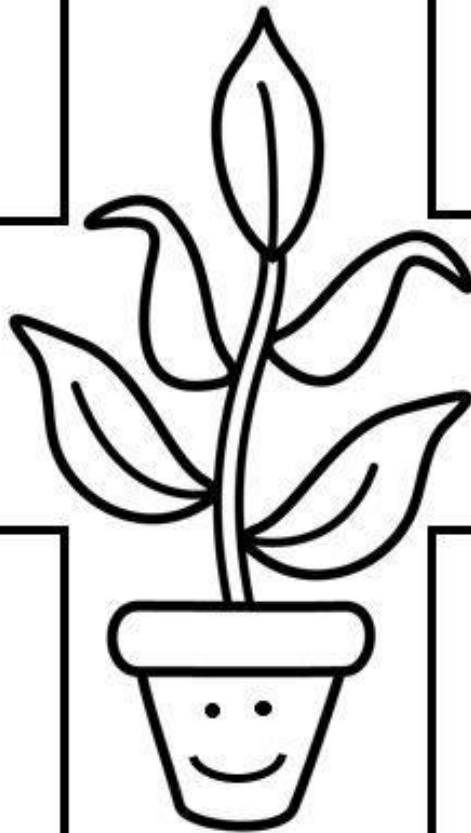
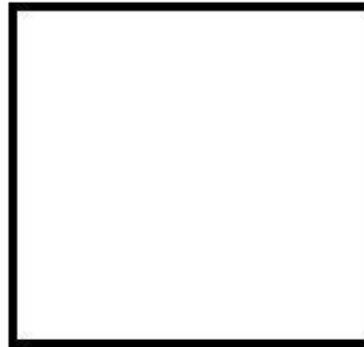
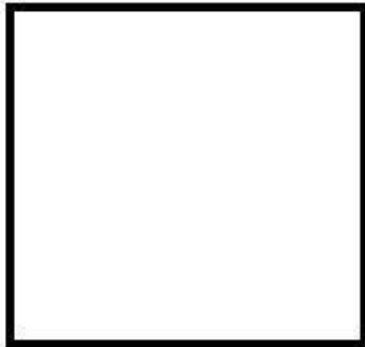
Name \_\_\_\_\_



Name: \_\_\_\_\_

# Plant Needs

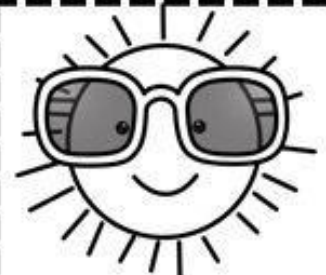
Help Jack decide what a plant needs.  
Cut and paste the items which a plant  
needs to grow around the happy plant.



Cut and paste the items a  
plant doesn't need beside the  
unhappy plant.



toy



sun



Ice-cream



water



soil



air



# What do plants need?

Color the picture. Plants need water, soil, air and sunlight to grow.



Name \_\_\_\_\_