Chapter Science Investigation

Name _____

Germinating Seeds

What You Need





bean seeds

plastic knife

Find Out

Do this activity to see what seeds need to germinate.

Process Skills
Observing
Predicting
Communicating



hand lens



paper towels



- 35 minutes to get started
- 5–10 minutes every day for two weeks



water



tape



black marker



Wнат то Do

- 1. Soak your bean seeds.
- 2. Split the seeds apart.
- **3. Observe** the inside of the seeds with the hand lens. Find a half that has an embryo. Find a half that has a food supply.
- **4.** Place several halves with the embryo and the food supply on a wet paper towel. Label them A.
- **5.** Place several halves with the food supply, but without the embryo, on another wet paper towel. Label them B.
- **6.** Place the paper towels in a sunny place.
- 7. Based on what you have learned about seeds, predict which seeds will germinate.
- **8. Observe** your seeds every day.
- **9. Record** your observations on the chart.



Circle *YES* if the seeds germinated. Circle *NO* if the seeds did not germinate.

Seeds A	Seeds B
YES	YES
NO	NO

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Conclusions

1.	Which seeds germinated?
2.	Why did some seeds germinate and other
	seeds not germinate?

New Questions

1.	Would all of the seeds germinate if they were
	placed in soil instead of on a paper towel?

2 .	Write a new question you have about how
	plants grow.





Investigating Leaves

Draw a picture of how the leaf looked on Day One and Day Two.

Day One
Ein Sin

Day Two
Sara Jan

Activity Journal

Lesson 1 • Plant Parts

Name	
What Happened How did your leaf change?	
Why do you think that your leaf changed?	
What If	
Predict what would happen if you did this activity with a flower.	

Name ______



Observing Bean Seeds

Draw who	ot vou soo		the soud		
Draw wha	see	e msiae t	ne seed.		
Draw a pi	cture that	t shows	how a se	ed germin	nates.
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Activity Journal

Lesson 2 • Plant Life Cycles

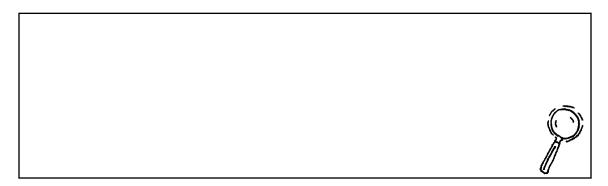
Name	
What Happened	
What did the inside of the seed look like?	
What do you think was in the seed around the embryo?	
What If	
Predict what would happen if you planted half of a seed.	

Name _____



Observing Leaves

Draw what you see through the hand lens.



Write how long the leaves are. Write how wide they are.

How long?	_
How wide?	_

How long?	
How wide?	

How long? _____

How long?	_
How wide?	

Activity Journal

Lesson 3 • Plant Differences

Name	
What Happened What were the differences in size of the leaves you collected?	
How many different shapes of leaves did you find?	
What If What other plant parts could you measure and compare?	