





## EXPERIMENT 16: Seeds and Needs

**Challenge:** Find out what mix of sun and water helps make beans sprout!



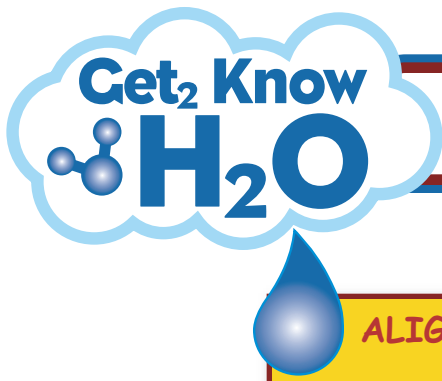
- 8.** Compare the beans in the bags after one week.  
Record your observations.



### QUESTIONS:



- What effect did the amount of water have on seed growth?
- What effect did the amount of sunlight have on seed growth?
- Which combination of sunlight and water helped the seeds grow the most? The least?



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## Instructor's Guide

**ALIGNMENT WITH ILLINOIS STATE BOARD OF EDUCATION GOALS**

<b>State Goal 11:</b> Section A: 2a, 2b, 2c, 2d and 2e Section A: 2a	<b>State Goal 12:</b> Section B: 2a
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**WHAT'S HAPPENING?**  
The water stays sealed in, which is keeping the beans moist and allowing them to sprout. Students will observe how the various combinations of water and sun affect their growth.

**WHAT COULD GO WRONG?**  
Get bean seeds from a reliable source and keep the bags sealed tight.

**LINKS**  
[www.NEED.org](http://www.NEED.org)

**CREDITS**  
The NEED Project PO Box 10101 Manassas, VA 20108  
800-875-5029

**WHAT ELSE CAN KIDS LEARN?**

**Sunny days and nights**  
Have the kids think about whether or not the seeds would grow better if they were in sunlight 24 hours a day.

**But teacher, they looked thirsty**  
Ask the students what might happen if you really soaked the beans with a cup of water.

**The equator equation factor**  
Have the students discuss why grapes grow in California during summer and in Chile during winter?

**YOUR FEEDBACK**  
Were the instructions clear? Did the class stay interested? Email us at [feedback@Get2KnowH2O.org](mailto:feedback@Get2KnowH2O.org) and let us know what you think. We would like to share your suggestions with other teachers and give you credit for your great ideas!