Needs: a plant test and a place to make

Names: Class: Date:

Work with a partner. Your teacher will help you set up the plants and read the steps with you.

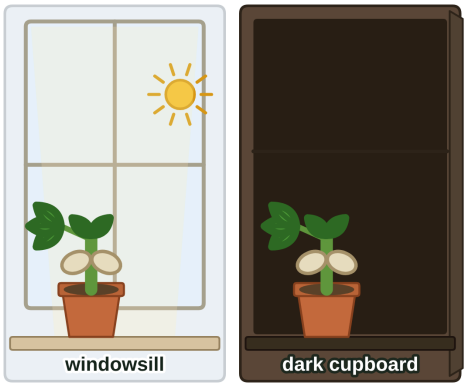
PART 1 Does a plant need light?

Aim: To find out what happens to a bean plant that gets no light.

You need: Two young bean plants in pots, the same size. A sunny windowsill, a dark cupboard and a cup for water.

> **Safety.** Your teacher fills the pots. Don't touch the potting mix, because it can carry germs. Wash your hands with soap and water after you touch the plants, and before you eat.

1. Put one plant on the windowsill and one in the dark cupboard.
2. Predict: what will the plant in the cupboard look like on day 10? Draw it in the box.
3. Give both plants the same amount of water each time, so that their soil stays damp.
4. On day 1, day 4, day 7 and day 10, look at both plants. Draw each one in the table and colour its leaves.
5. After day 10, put the cupboard plant on the windowsill too, so that it gets light.



My prediction: the plant in the cupboard on day 10

Day	Plant on the windowsill	Plant in the dark cupboard
1		
4		
7		
10		

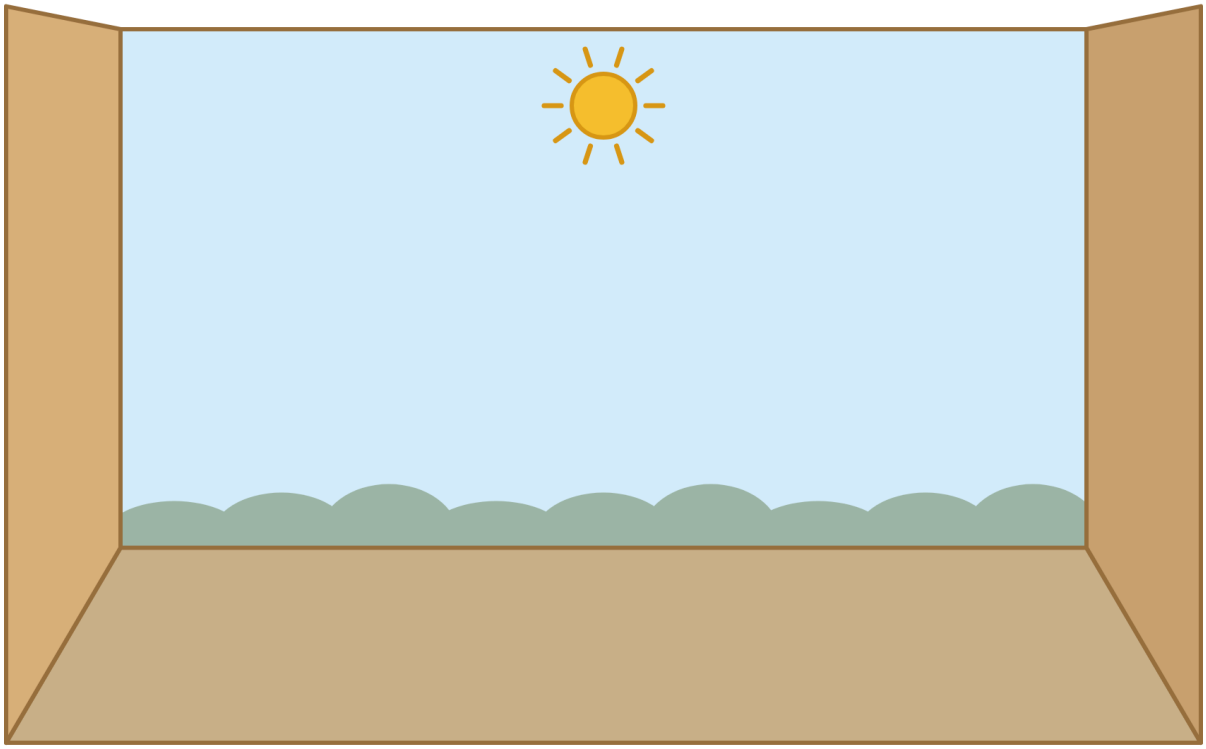
1. How is the plant from the cupboard different?

2. What did both plants get that was the same?

PART 2 Make a place in a box

Choose an animal. Draw a place for it in the box. Draw where it can find air, water, food and shelter.

My animal is _____



What it needs	Where it finds it in my box
Air	
Water	
Food	
Shelter	

Answers (turn the page round). Part 1: the plant in the dark cupboard grows longer and thinner than the plant on the windowsill, and its leaves turn pale yellow; both plants got the same pots, potting mix and water, so the light was the main difference (a sunny windowsill can also be warmer than a cupboard). **Part 2:** answers vary; check that each need has a place in the box, such as air all around, water in a dish or a pond, food such as plants, seeds or small animals, and shelter such as a log, a rock, leaf litter or a hollow.