Extension Worksheet 1

Name: _____ Class: _____ Date: _____

1. To understand the function of roots, a researcher put two plants in containers and put 100 ml of water in each, labeling them **A** and **B**. Then he cut the roots of the plant in container **B** and left the plant in container **A** intact. According to this experiment, answer the questions.

a. Which set of results do you expect the researcher to get? Explain.

Results 1

Day	Amount of water in container A (ml)	Amount of water in container B (ml)
1	101	100
2	107	100
3	111	100
4	113	100

Results 2

Day	Amount of water in container A (ml)	Amount of water in container B (ml)
1	99	100
2	95	100
3	90	100
4	84	100

_____

_____

b. Considering the results, what happens to the amount of water in each container over the four days?

_____

_____

c. What do you expect will happen with container **A** over the next few days?

_____

_____

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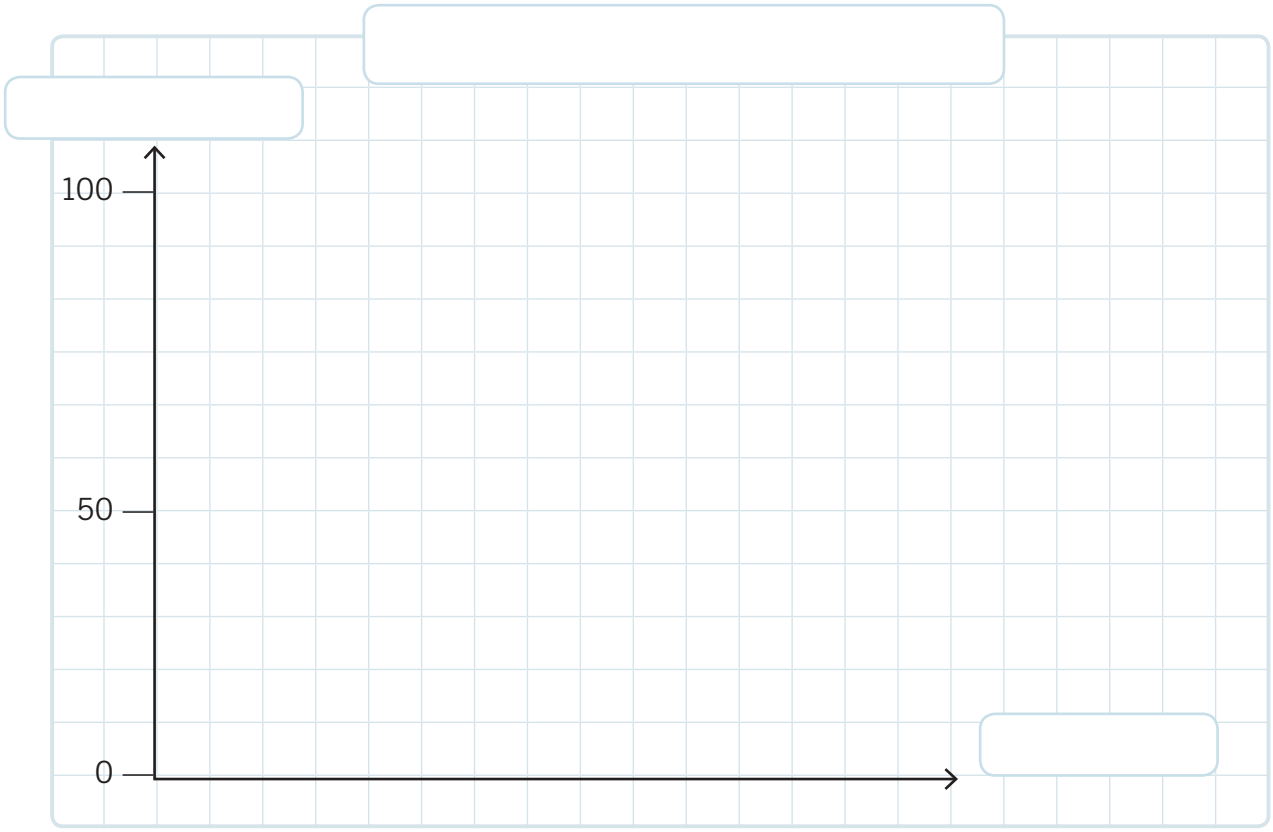
d. Using results from the table, make a bar graph with the data from container **A**.



e. According to the experiment, what is the function of a plant's roots?

f. Oxygen is a product of photosynthesis. Which plant structure should be manipulated experimentally to affect oxygen production? Explain.

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Extension Worksheet 2

Name: _____ Class: _____ Date: _____

1. Enzo, Patricia, Lucy, Graham and Elizabeth planted lentil seeds, and each kept theirs at a different temperature for a week. This table shows the results.

Student	Enzo	Patricia	Lucy	Graham	Elizabeth
Average temperature (ºC)	0	10	15	20	25
Result after a week					

a. What process did they want to study with this experiment?

_____

_____

b. Which seeds did not germinate?

_____

c. What is an adequate temperature for seed germination?

_____

d. According to the experiment, is it possible to affirm that only one temperature is right for germination? Why or why not?

_____

_____

e. What would have happened if Enzo's and Elizabeth's plants had been kept at 15 ºC?

_____

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2. What occurs after pollination in the life cycle of plants?

3. The ladybug feeds on grass, and the lizard feeds on the ladybug in order to obtain its energy.

Using this information and the images above, answer the questions.

a. If the grass disappeared, what would happen to the ladybug?

b. How would the disappearance of the grass affect the lizard?

c. How would the disappearance of plants affect human beings?

d. Why else are plants important for living things?

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