

Lesson 6: What Do Cells Do With Sugar?

Activity 6.1

Purpose

In this lab we will give some yeast cells some sugar and see what effects it has on them.

Word Wall Words

Fermentation:_____

Carbon Dioxide:_____

Procedure

Label two sandwich bags carefully with what will be inside, and your group and period number. Prepare the two sandwich bags with the following contents:

- One with 30ml of water and a pinch of yeast.
- One with 30ml of water, one packet of sugar and a pinch of yeast.

Remove as much air as possible from the bags and zip them tightly closed.

Leave them in the designated location overnight and then make your observations.

Data Table

Bag	Observations
Yeast and Water	
Yeast, Sugar and Water	

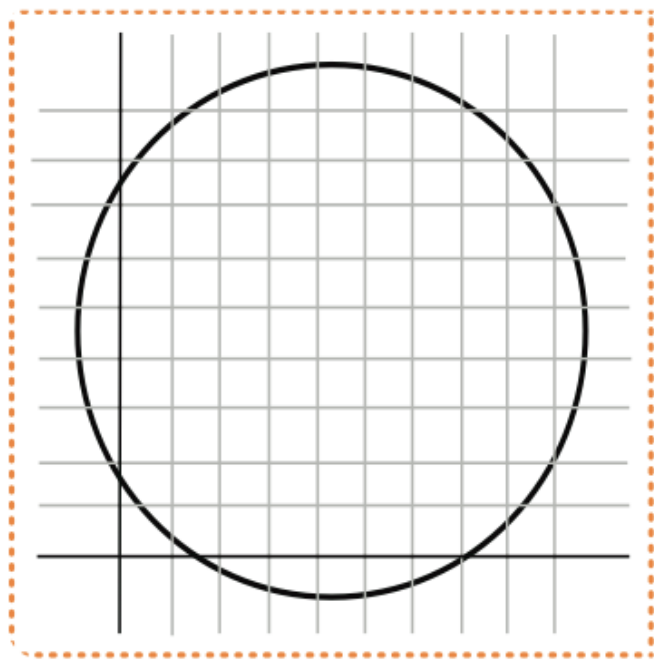
Your Progress:

- Mastery
- Proficient
- Developing
- Beginning

Results Under the Microscope

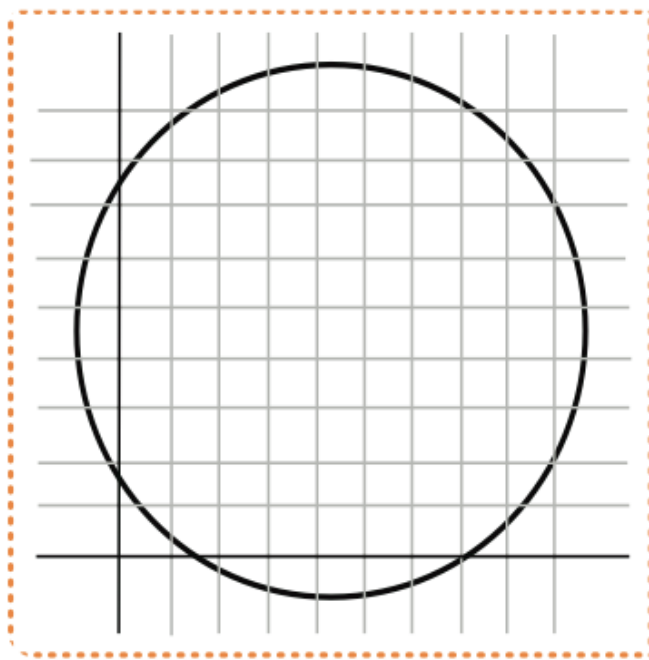
Make a slide of the water from each bag. Choose the magnification that you think best shows the differences between the two slides. Label the magnification and draw each.

Yeast and Water:



Magnification: _____

Yeast, Sugar and Water:



Magnification: _____

Based on what you have observed, what do you think the yeast cells are doing with the sugar?
