

Procedure:

- 1) Fill the beaker with 100 mL of warm tap water.
- 2) Add 1 package of yeast to the warm water and stir until it is in solution.
- 3) Carefully pour the yeast solution into the flask.
- 4) Complete the lab according to the group you have been assigned.

Group 1: After pouring your yeast solution into the flask, immediately place the balloon on the top of the flask. Note the time on your lab chart.

Group 2: After pouring your yeast solution into the bottle, add 1 packet of sugar to the mixture and swirl it gently until it dissolves. Then place the balloon on top of the bottle. Note the time on your lab chart.

Group 3: After pouring your yeast solution into the bottle, add 2 packets of sugar to the mixture and swirl it gently until it dissolves. Then place the balloon on top of the bottle. Note the time on your lab chart.

Group 4: After pouring your yeast solution into the bottle, add 3 packets of sugar to the mixture and swirl it gently until it dissolves. Then place the balloon on top of the bottle. Note the time on your lab chart.

Group 5: After pouring your yeast solution into the bottle, add 4 packets of sugar to the mixture and swirl it gently until it dissolves. Then place the balloon on top of the bottle. Note the time on your lab chart.

- 5) Using your string, measure the size of your balloon every 5 minutes. Record the information on your data table.

Results:**SIZE OF BALLOON**

	Start	5 min.	10 min.	15 min.	20 min.	25 min.
Group 1						
Group 2						
Group 3						
Group 4						
Group 5						

Discussion:

- 6) Which of the balloons reached the largest size? What material was collected in the balloons?
- 7) What were the variables in this experiment?
- 8) Which one of the groups was the control? Why was it the control?
- 9) Make a multiline graph of the data. Include a legend.
- 10) What is fermentation? What are the products of fermentation? What caused the balloons to increase in size?

Conclusion:

Yeast is used in making bread. Using the information obtained in this experiment, explain what causes bread to rise and what conditions are necessary for optimum rising?