



Cellular Respiration: Student Activity Sheet

Name: _____

Date: _____

Part 1: Explore Cellular Respiration

Check on your vials. Record your time and observations below. Make sure to include what is happening inside the vial and what is happening to the balloon.

Yeast Vial		Yeast and Sugar Vial	
Time	What's Happening	Time	What's Happening

Look at your data above and compare the two environments _____

Part 2: How Does Temperature Affect Cellular Respiration?

Record your results below.

Room Temperature		Hot	
Start Time	End Time	Start Time	End Time

1. How did water temperature affect cellular respiration? Provide evidence to support your answer.

2. Place the vial in a foam cup half-full of hot tap water. What do you predict will happen? _____

3. Compare your results to your prediction. _____

Part 3: Cellular Respiration - Speed Challenge

Record the information and results of each trial below. For the temperature of water circle cold (C), room temperature (RT), or hot (H).

Trial	Temp of Water	Amount of Water (mL)	Amount of Yeast (cc)	Amount of Sugar (cc)	Start Time	End Time
1	C RT H					
2	C RT H					
3	C RT H					
4	C RT H					

1. Which trial was the quickest? _____

2. What amounts of the ingredients did you use? _____

Part 4: Predict and Test

Record the information and results of each trial below.

Trial	Liquid	Prediction	Result
1			
2			
3			
4			

1. What did you notice? _____

2. What questions do you have? _____