

Effects of Chemical and Thermal Pollution Worksheet

Data Table

Temperature and Yeast

Time (min)	Observations			
	Room Temp _____ °C	45 °C	80 °C	45 °C w/ Iron(III) Sulfate
0				
5				
10				
15				
20				
25				
30				

Post-Lab Questions

1. How did the temperature of the solutions affect the yeast cultures?
2. Given the results, describe the relationship among the 80 °C, 45 °C and room temperature solutions. Include the relationship between dissolved oxygen and CO₂ production of the yeast.
3. How did the iron(III) sulfate effect the yeast growth and CO₂ production?
4. What happened when the containers were swirled at each five-minute mark? Why?
5. A dam has just been installed in a local river. How would the dissolved oxygen readings above and below the dam vary?
6. A nuclear power plant with a cooling lake is being installed in your area. The water from the cooling lake is eventually going to be introduced to a local natural water source. What effect would the water from the cooling lake have on aquatic organisms if the water from the power plant was introduced to the natural water source before it completely cooled?
7. Describe two ways pollution could be reduced or prevented in natural water sources in your area.