

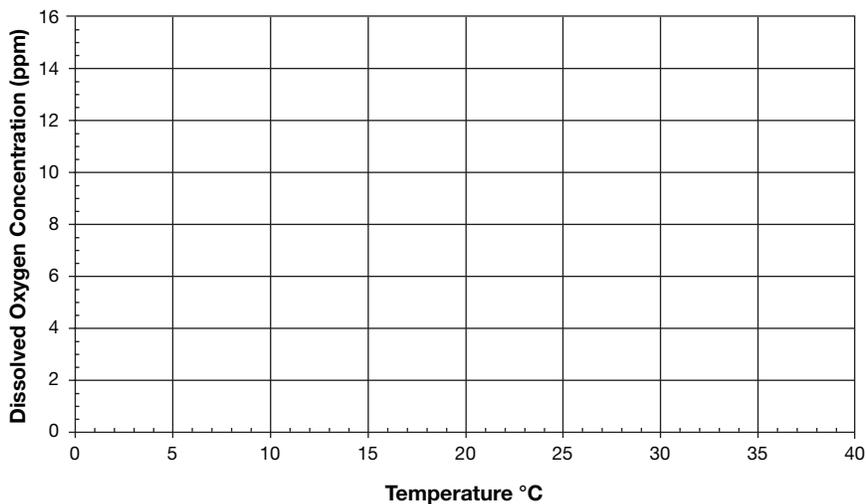
Dissolved Oxygen and Temperature

Water Temperature	Sodium Thiosulfate (Initial Volume)	Sodium Thiosulfate (Final Volume)	Dissolved Oxygen Level	Volume of Sodium Thiosulfate Added

Post-Lab Questions

- Graph the class results for the effect of temperature on the amount of dissolved oxygen in water.

Effect of Temperature on Dissolved Oxygen



- Propose a simple explanation based on chemical or physical principles for why the solubility of oxygen and other gases in water decreases as the temperature is raised.
- Explain why the amount of dissolved oxygen in a lake or stream increases during the day and then decreases at night.
- How does the amount of oxygen dissolved in water (9–0 mg/L) compare with the amount of oxygen dissolved in air? Given that air contains 21 mole percent oxygen, calculate the concentration of oxygen (milligrams of oxygen per liter of air) at STP.