

DATA WORKSHEET: GRAPHING AND ANALYZING DISSOLVED OXYGEN LEVELS

1. Describe the ways in which lake water becomes oxygenated.
2. Based on your graph, describe the relationship between dissolved oxygen levels and depth.
3. How deep is your station?

Depth= ___ m

4. What are the minimum and maximum dissolved oxygen levels at your station? (To find this, use the data table. Selecting the drop down menu located above the dissolved oxygen column, then select *Min.* and *Max.*)
5. Do you notice a change in dissolved oxygen levels at your station? If so, at which depth?
6. Based on your graph, do you think the water at your station is mixed or stratified?
7. Does your station fall within the hypoxic zone (<2 mg/l). If yes, at what depth does the hypoxic zone start and why does that occur? Why might there not be a hypoxic zone?
8. Does your station have anoxic conditions (zero dissolved oxygen)?
9. Does your station contain a dead zone?
10. What is the height of your station's dead zone, if one exists? To calculate the height of the dead zone, subtract the maximum water depth from the minimum depth of the hypoxic or anoxic zone.
11. What percent of the water column, if any, is hypoxic at your station? To find this, divide the height of the hypoxic zone by the total depth.
12. How can we use dissolved oxygen levels to help describe the health of aquatic environments?