

LIMNIC ERUPTIONS STATION #2A

KWLA Question: How would CO₂ affect the water in Lake Nyos?

Investigation: How does the dissolving of CO₂ in the lake affect the conductivity of the lake water?

Materials:

- Beaker or cup
- Distilled Water
- Dry Ice
- Vernier LabQuest⁹
- Vernier Conductivity probe⁹

Procedure:

1. Obtain a beaker of distilled water.
2. Connect the Conductivity Probe to CH 1 of the LabQuest. (**CAUTION: Do not immerse the Conductivity probe in the water past the top of the probe. Do not place the conductivity probe in the same container with any other probe.**)
3. Set the switch on the conductivity probe box to the 0-200 μ S range (2000 μ S = 1000 mg/L TDS).
4. Turn on the LabQuest. You should see the red meter screen.
5. Place the conductivity probe in the water and allow the reading to stabilize.
6. Press the **Start** button to begin data collection.
7. After you see the first 2-3 points of the graph, drop a piece of dry ice into the water.
8. When finished the graph will autoscale. Sketch graph.

Outcome: (Analyze in your Limnologist's Journal.)

*See Sources page for footnote references.