
Materials: Electronic balances, graduated cylinders, colored water, dropper, beaker of water, overhead projector (OHP), transparencies.

Engage: Review yesterday’s lesson regarding mass. (1 gram is approximately the mass of one large paper clip.)

Key question: What is the mass of 1 mL of water? How can we figure this out?

Explore: Demonstrate procedures for experiment: Do not pour liquids into a beaker or graduated cylinder over the electronic balances. Subtract the mass of the container to find the mass of the water. Conduct experiment completing a Student Record Sheet. Complete a graph.

Explain: Compile class sample of data on OHP. Discuss reasons for the variations. Predict what the next several masses would be if the experiment had continued to mass even larger volumes of water. Ask students: What is the mass of one mL of water? What is the mass of 100mL of water? How did you get those answers?

Evaluate: Complete a graph. Show sample on OHP. Discuss the Y and X axes. Discuss the components of a graph.