Lesson 10 Lab: Mole ID Lab

Parent Set-Up Instructions

1. Find the mass of an empty weigh boat, and record it in your students lab book on the appropriate line. Your child will need this information when completing the lab.
2. After placing an empty weigh boat on the scale, press the zero/tare button so that the scale says 0.00 g and fill the weigh boat with the first sample for your student.
3. Label the weigh boat and write the number of moles in the weigh boat.
4. Put the sample aside and place another weigh boat on the scale; zero/tare the scale, and repeat this process for each of the samples.
5. Use the following table to determine how much of each compound to put in each weigh boat and how to label each sample.

Information for label	Sample 1 0.06 mol	Sample 2 0.02 mol	Sample 3 0.09 mol	Sample 4 0.04 mol	Sample 5 0.03 mol	Sample 6 0.08 mol	Sample 7 0.09 mol
Compound	Sodium chloride (table salt)	Copper (II) chloride (cupric chloride)	Sulfur	Calcium chloride	Strontium chloride	Zinc	Lithium chloride
Amount to weigh:	3.50 g	2.75 g	3.00 g	4.50 g	5.25 g	5.00 g	4.00 g

6. Put the samples in order. Make sure the original bottles of chemicals are out of sight. These substances should be unknowns for the student so they can use the masses to determine the identity of the substances.
7. Samples of each compound will be kept in separate weigh boats. After the students use them for this lab, they may carefully add them back to the correct bottle for re-use at a later time.