

# Periodic Table Hopscotch Laboratory: Dr. Leslie Pierce

## Students' Guide

### Goals

- Visualize the concept of the mole
- Gain experience in calculating grams and moles

### The Activity

In this activity, you will visualize the concept of the mole using a mole of chalk as a model. You will practice calculations of moles and grams, and end up with a better understanding of what a mole is and how chemists use it.

### Materials for Each Group

- Data book and pencil
- A chunk of chalk
- Semi-analytical balance
- Electronic balance, if available
- A table of atomic masses
- A calculator

### SAFETY

No special safety considerations are required.

### Instructions

1. Take a chunk of chalk and measure its mass on the balance: \_\_\_\_\_
2. Go outside and draw something on the sidewalk.
3. Go back in class and weigh the unused chalk: \_\_\_\_\_
4. Based on the initial mass of the chalk and the mass at the end, calculate how many grams of chalk you left out on the sidewalk: \_\_\_\_\_
5. Write down the molecular formula of the chalk: \_\_\_\_\_
6. Get the masses of the atoms: \_\_\_\_\_
7. Calculate the chalk's molar mass: \_\_\_\_\_
8. Using this data, calculate:
  - a. How many moles of chalk did you leave on the sidewalk? \_\_\_\_\_
  - b. How many molecules of chalk did you leave on the sidewalk? \_\_\_\_\_
  - c. How many atoms of calcium did you use? \_\_\_\_\_
  - d. How many atoms of carbon did you use? \_\_\_\_\_
  - e. How many atoms of oxygen did you use? \_\_\_\_\_

# Periodic Table Hopscotch Laboratory Answers

**J Rink**



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