

MOLAR CONVERSIONS LAB

Many everyday items are counted in groups in order to make them more manageable. Eggs are counted in dozens; sheets of paper are counted in reams. Since atoms and molecules are so minuscule, it is necessary to count them in groups much larger than 12 or 500. Instead, they are counted in groups called moles. The mole is a group of 6.02×10^{23} particles, or Avogadro's number (N_A) of particles.

Counting the individual items in a group as large as the mole is impossible. As a result, a different method is used to count a mole of particles – counting by weighing. The same process is used to count aluminum cans when you take a bag to the recycling center. A conversion factor (weight per can) is used to convert the weight of the bag into the number of cans in the bag. In the same way, the molar mass of an element or compound is used to convert the mass of a sample into the number of atoms or particles in that sample.

In this lab, you will perform molar conversions for small samples of two everyday substances, water and chalk.

PROCEDURE

1. Fill a paper cup with water and measure its mass.
2. Drink one mouthful of water and find the new mass of the paper cup.
3. Record the initial and final masses in your data table.
4. Obtain a piece of chalk (calcium carbonate). Wipe it free of dust particles and measure its mass.
5. Write your full name with the chalk and find its new mass.
6. Record the initial and final masses in your data table.

DATA – Molar Conversions Data Table

| | Water | Chalk |
|-------------------|-------|-------|
| Initial Mass (g) | | |
| Final Mass (g) | | |
| Mass consumed (g) | | |

ANALYSIS – Information for Each Substance (show work on the back of this sheet)

| | Water | Chalk |
|---------------------------|-------|-------|
| Chemical Formula | | |
| Molar Mass | | |
| Particles Consumed in Lab | | |

QUESTIONS – Answer on the back of this sheet

1. Identify the two conversion factors you used and specify how you used them.
2. If you consume 5 grams each of water and chalk, will you consume more water particles or more chalk particles? Explain.
3. If you consume 5 moles each of water and chalk, will you consume more water particles or more chalk particles? Explain.

Moles Of Chalk Lab Answers

RD Boyd



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