

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

Michael Seilmaier



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web hydrogen will be left slightly positive so this is a polar molecule i represent this as a couple of different animals here got
a bear and it s got the five valence electrons and it shares the single electrons with its penguin friend the penguins each have
one valence electron to be shared with from the bear

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web what does the crossed arrow represent in the comic strip 11 what are two of the definitions of dipole given in the comic
strip 12 making sense 13 if you finish early what does electronegativity have to do with polarity using polar bears and
penguins create an illustration showing a hydrogen sulfide molecule h₂s

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web each dipole represents one polar bond the molecule is nonpolar 10 describe what you think is happening to the penguins
in the illustration of h₂o on page 4 they are being pulled towards the stronger polar bear he s more electronegative 11
explain what you think the crossed arrow represents in the comic book polar bonds perhaps 12

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chemistry which includes studying the kinds of compounds that are essential for living organisms answer the following
question cexamine the following molecules what patterns do you see in the bonding of

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web the two polar bears or penguins are equal in electronegativity therefore they pull electrons equally as hard and neither one will end up with more electrons more of the time 4 a what 3 types of bonds are represented on the third page of the comic book nonpolar covalent polar covalent and ionic b

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web iceberg periodic table polar bears more electronegative atoms the larger the polar bears the more electronegative penguins less electronegative atoms the smaller the penguins the less electronegative 4

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web answer because the two polar bears or penguins have equal electronegativity they will pull electrons equally hard and in most cases neither will end up with more electrons each polar bear and penguin has an electronegativity of the same value a non polar bond is formed when two polar bears or two penguins are bonded together

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web why does the polar bear tell the penguin to try to be more positive the polar bear benefits more when the penguin is more positive the more the polar bear attracts the shared pair of electrons the more positive the partial charge on the penguin

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web answer the following questions consider the following illustration draw the lewis dot structure for hcl if the penguin represents a hydrogen atom and the polar bear represents a chlorine atom what does the ice cream represent in the drawing what do you think the picture is trying to illustrate would hcl be attracted to the charged wand

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web to answer this question you will examine 1 electronegativity 2 nonpolar vs polar molecules 3 electronegativity and bonding electronegativity the h atom and the cl atom in hydrogen chloride

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web 1 how does the comic strip define a polar molecule 2 define electronegativity as you understand it after reading the first two pages of the comic strip 3 what is the artist trying to represent by two polar bears arm wrestling or two penguins arm wrestling 4 what three types of bonds are represented on the third page of the comic strip

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