| Name | | |
|--|--|---------------------------------|
| Co | ompounds, Percent, and M | loles |
| | , Mixtures type of atom, a compound ha iixture has no set formula (ma | |
| Label each as an | element, compound, or mi | xture (E,C,M) |
| water (H ₂ O) | gold necklace (Au) | salt (NaCl) |
| salad | air | gas in neon sign (Ne) |
| glass (SiO ₂) | lead pipe (Pb) | cake |
| Determine the pe | d percent (move decimal two | - |
| (rounded to | the tenth) | - |
| · | Class (SiO ₂) | Fool's Cold (FoS.) |
| Laughing Gas (N ₂ O) | Glass (SiO ₂) | Fool's Gold (FeS ₂) |
| Laughing Gas (N ₂ O) N | Glass (SiO ₂) Si | Fe |
| Laughing Gas (N ₂ O) | Glass (SiO ₂) | Fe |
| Laughing Gas (N ₂ O) N O | Glass (SiO ₂) Si O | FeS |
| Laughing Gas (N ₂ O) N O | Glass (SiO ₂) Si O | FeSBleach (NaClO) |
| Laughing Gas (N ₂ O) N O Epsom Salts (MgSO ₄) | Glass (SiO ₂) Si O Vinegar* (CH ₃ COOH) | FeSBleach (NaClO) |
| Laughing Gas (N ₂ O) N O Epsom Salts (MgSO ₄) Mg | Glass (SiO ₂) Si O Vinegar* (CH ₃ COOH) C | FeSBleach (NaClO) Na |
| Laughing Gas (N ₂ O) N O ——— Epsom Salts (MgSO ₄) Mg —— S ——— | Si O Vinegar* (CH ₃ COOH) C H | FeSBleach (NaClO) Na |
| Laughing Gas (N2O) N | Si O Vinegar* (CH ₃ COOH) C H O | FeS |

| Moles How many atoms are in a mole (Avogadro's number) | | |
|---|--|--|
| To determine how much a mole of an element weighs, look at the atomic mass. The weight (mass) is in grams. | | |
| Determine the mass of each of the following elements (be sure to write the g.) | | |
| One mole of gold (#79) One mole of zinc (#30) | | |
| 1 mole barium (#56) 1 mole uranium (#92) | | |
| To determine the weight of a compound, add up all of the masses. | | |
| One mole carbon dioxide (CO ₂) | | |
| One mole of Vitamin C ($C_6H_8O_6$) | | |
| One mole of rubbing alcohol* (C ₂ H ₅ OH) | | |
| One mole of baking soda (NaHCO ₃) | | |
| One mole of aspirin ($C_9H_8O_4$) | | |
| How many moles of water are present in 54 grams? (Show your work) | | |
| | | |
| Molarity A one molar solution is made by putting one mole of substance into one liter of water. A five molar solution is five moles of substance in one liter of water. To do this, calculate the weight of the moles and figure how much to add. | | |
| How would you make a 1M solution of table salt? (NaCl) | | |
| How would you make a 5M solution of table salt? (NaCl) | | |
| Ammonia is NH_3 . How would you make a $1M$ solution of ammonia? | | |
| How would you make a 3M solution of ammonia? | | |