| 1. a. How many atoms does one mole of the element Na contain |
|--|
| b. How much does one atom of the element weigh amu |
| c. How much does one mole of the element weigh grams |
| |
| 2. If you have 78.2 grams of the element Na, (8 pts, 4 pts per letter) |
| a. How many moles do you have ? show work. |
| |
| |
| b. How many atoms do you have in that many grams ? (show work). $(N_A = 6.022 \text{ x } 10^{23})$ |
| |
| · |
| |
| 1. a. How many atoms does one mole of the element Na contain 6,022 X/O atoms |
| b. How much does one atom of the element weigh 22,99 amu |
| c. How much does one mole of the element weigh 22.99 grams |
| |
| 2. If you have 78.2 grams of the element Na, (8 pts, 4 pts per letter) |
| 3. How many moles do you have ? show work. |
| 18,29 Nax I mol Na = 3,40 mil Na 22,999 Na |
| |
| show work). (144 - 0.022 x 10) |
| 3,40 mol Na x 6.022 × 10 ²³ atoms = 2,05 × 10 ²⁴ |
| Mod Nu atoms |
| 78.29 Na x Inol Na x 6.022 × 10 23 atm) 22.99 g Na x 1 mal na |
| LLigggna I mal ha |

elements to know Symbol + name (Spelling ervor in Si silicon helium H hydroger) neon lithium be germanium Ar argon nitrogen Sodium Kr Krypton phosphorus) potassium Ch romium (As arsenic) beryllium man ganese) Mn oxygen magnesium Fe ivon sulfur Calcium Ca nickel Selenium B boron Copper fluorine Al aluminum Zinc Zn chlorine gallium silver, ba bromine Pt platinum Carbon Mer Curs gold