

AP CHEMISTRY



TOPIC 1: CHEMICAL FOUNDATIONS, PART D EXAMPLES

Day 5:

- Atomic Masses
 - The mole
 - Molar mass
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- 1) Element “X” consists of 33.10% of an isotope with a mass of 22.0 amu, 8.60% of an isotope with a mass of 24.0 amu, 20.70% of an isotope with a mass of 25.0 amu, 16.50% of an isotope with a mass of 27.0 amu, and 21.10% of an isotope with a mass of 30.0 amu. Calculate the average atomic mass.

- 2) Calculate the molar mass for tin(IV) phosphate

- 3) Calculate the number of milligrams for 550 atoms of zinc.

- 4) Calculate the number of oxygen atoms in a 75.3 kilogram sample of lithium sulfate.