Directions: Perform the following conversions INCLUDING WORK AND UNITS. Have the teacher sign off after you complete each part. Do not worry about getting problems completed outside of class time signed off.

Part 1: Sign off:

1. How many atoms are in 5.0 g Be?
2. How many formula units are in 9.8 g Ca(OH)2?
3. What is the mass of 3.61 x 1025 formula units of Li2S?
4. What is the mass of 1.44 x 1021 molecules C6H12O6?

Part 2: Sign off:

1. How many molecules are in 64.0 L SO2?
2. How many atoms are in 985 L Ar?
3. What is the volume (L) of 4.45 x 1022 molecules of CO2?
4. What is the volume of 1.50 x 1028 atoms of Kr?

Part 3: Sign off:

1. What is the volume of 432 g H2O?
2. What is the volume of 330 g C3H6?
3. What is the mass of 86.7 L of N2O?
4. What is the mass of 176 L F2?