CW 1 – Atoms/Molecules and the Mole

Name:

Period: 1 4

Directions: Solve the following problems using dimensional analysis. You can also use your mole map if needed. **Show your work and make sure your answers are in correct significant figures and have units**!

1. How many atoms of gold are in 1.00 moles?
2. How many moles are in 5.50 x 1022 molecules of H2O?
3. How many formula units are in 0.8700 moles of Na2CO3?
4. How many moles are in 7.75 x 1025 formula units of H2SO3?
5. How many molecules are in 2.050 moles of N2O?
6. How many moles are in 70 000. atoms of aluminum?