

Name \_\_\_\_\_ Period \_\_\_\_\_

College Prep Chemistry of the Earth System

Assignment 1K – Atomic Mass and Isotope Review

20 Points

Complete the following Chart based on the isotope Series No Work = No Credit

Isotope A - X	Atomic #	Mass #	Protons (p <sup>+</sup> )	Electrons (e <sup>-</sup> )	Neutrons (n <sup>0</sup> )	Atomic Mass (amu)
Germanium-70						
Germanium-72						
Germanium-73						
79	Br					
35						
81	Br					
35						

Calculate the average atomic mass for the isotopes shown above

Bromine has the following isotopes

Isotope	Atomic Mass	Fractional Abundance
Br-79	79 amu	0.0759
Br-81	81 amu	0.9241

Calculate the Average Atomic Mass of Br

Isotope	Atomic Mass	Frac. Abund.	Ratio
Br-79			
Br-81			

Germanium has the following isotopes

Isotope	Atomic Mass	Fractional Abundance
Ge-70	70 amu	0.2084
Ge-72	72 amu	0.4288
Ge-73	73 amu	0.3628

Calculate the Average Atomic Mass of Ge

Isotope	Atomic Mass	Frac. Abund.	Ratio
Ge-70			
Ge-72			
Ge-73			