

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

College Prep Chemistry of the Earth

Assignment 1P – Energy of Atoms

20 Points

Answer the following questions based on in class notes presented.

Define <i>Nuclear Energy</i>	Define the <i>gamma ray</i> , and <i>gamma radiation</i>
What two factors determine the amount of <i>nuclear energy</i> produced during decay?	What is an <i>excited atom</i> as part of the nuclear decay process?
During an alpha decay, which <i>intermolecular bonds (in the atom)</i> are broken?	During an beta decay, which <i>intermolecular bonds (in the atom)</i> are broken?

For the following nuclear decay processes answer the following questions based on the notes

	Alpha Decay	Beta (-) Decay	Gamma Decay
Energy Level within the Nuclear Decay			
Mass of the Nuclear Decay			
Size of the Nuclear Decay			
Penetration of the Nuclear Decay			
What material stops Nuclear Decay			