

Name _____ Period _____

College Prep Chemistry of the Earth System

Assignment 4C – Atomic Energy

20 Points

Answer the following questions based on the in class notes and presentation

Define Bonding at the Atomic Level		Define States of Matter at the Atomic Level	
What are the three main types of bonding?		What are the three main states of matter?	
What occurs during an elastic collision between two or more atoms?		What occurs during an inelastic collision between two or more atoms?	
What type of interactions occur between the following states in elastic collisions?		What occurs during ionic bonding when two atoms collide (<i>from the pictures</i>)	
Solid			
Liquid Gas			
What occurs to chemical bonds in the following situations		What occurs during the following bonding processes to the electrons in atoms?	
KE < PE		Ionic Bonding	
KE > PE		Covalent Bonding	
What type of energy transfer occurs when bonds are broken within an atom?		What type of energy transfer occurs when bonds are formed within an atom?	