

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

College Prep Chemistry of the Earth

Assignment 3H – Molecular Structure and States of Matter

20 Points

*For each state of matter, determine whether the shape and volume is variable or fixed.*

State of Matter	Solid	Liquid	Gas
Volume of Matter ( <i>variable or fixed</i> )			
Shape of Matter ( <i>variable or fixed</i> )			
Strength of Interaction ( <i>weak, medium, strong</i> )			

For the following molecule interactions, answer the following questions

Ionic – Ionic Bond	Polar –Polar Bond	Non-Polar – Non-Polar Bond
Interaction Type	Interaction Type	Interaction Type
How are particles connected to each other?	How are particles connected to each other?	How are particles connected to each other?
State of Matter for Interaction	State of Matter for Interaction	State of Matter for Interaction
Strength of Interaction	Strength of Interaction	Strength of Interaction