

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Pd. \_\_\_\_\_

## Matter & Energy Review Worksheet

### Chapter 2.2

What are the three states of matter?

Please explain the molecular difference between the three states of matter (ie – what is the difference between the molecules that gives each state of matter its physical characteristics).

Please list and explain the three aspects of the Kinetic Theory.

Which two states of matter are characterized as a fluid?

A 500ml beaker of gas was opened in a 20m x 20m x 20m room that contained no other gas (vacuum). How much of the room is filled with gas after the beaker is opened? Why?

Why are solids not able to ‘flow’?

Do all gas molecules move at the same speed? Explain.

What does it mean for a fluid to have a high Viscosity? Give two examples.

What does it mean for a fluid to have a low Viscosity? Give two examples.

What is energy? Give five examples.

A solid and a liquid are mixed together and they mix unevenly. What type of mixture is this?

Two liquids are mixed together and they mix thoroughly. What is this type of mixture referred to as?

When energy is taken away from a water vapor molecule what does it turn into? What is this process referred to as?

What is the name of the process by which a solid turns directly into a gas?

Please state and explain the law of conservation of mass.

Please state and explain the law of conservation of energy.