Name/Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Energy and States of Matter Guided Reading

USOE p. 26 - 31

* Define Kinetic Energy:
* How do particles move apart?
* Explain in your own words the outcome of the state of matter based on the amount of kinetic energy.

1.

2.

3.

* What are the two factors that affect a state of matter?
* What will happen to the state of matter if energy is lost?
* Define Freezing:
* What is the freezing point of water in Celsius and Fahrenheit?
* Does all matter freeze at the same temperature? Why or why not.
* Define Melting:
* What is the difference of melting and boiling?
* Define Vaporation:
* What is the boiling point of water?
* Define Evaporation:
* How is vaporation and evaporation different?
* Define Condensation:
* Give two examples of condensation.
* Define Sublimation:
* Define Deposition:
* Is a change in the state of matter a physical or chemical change?

Write two sentences to explain your answer.