Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd: \_\_\_ Distance Learning **Week 8**

**ENERGY**

**VOCABULARY – *Use the resources on Mr. Hanna’s website to define the following key terms related to heredity.***

1. ENERGY –
2. THERMAL ENERGY –
3. CHEMICAL ENERGY –
4. ELECTRICAL ENERGY –
5. SOUND ENERGY –
6. RADIANT ENERGY –
7. NUCLEAR ENERGY –
8. MECHANICAL ENERGY –
9. LAW OF CONSERVATION OF ENERGY –

***SHORT RESPONSE – Provide a short answer (a few sentences or less) in response to each prompt.***

1. What metric unit do we use to measure energy in science? What other value is measured in the same units?
2. Do “cold” things like an ice sculpture have thermal energy? Explain.
3. What kind of energy is illustrated by eating food?
4. What do power lines and lightning have in common?
5. What do sound energy and radiant energy have in common?
6. Why would you *not* be able to hear sound in outer space?
7. What does your microwave have in common with your radio and the Sun?
8. What is the difference between fission and fusion?
9. Describe the two types of mechanical energy.
10. If a pendulum obeys the law of conservation of energy, what causes it to eventually stop swinging?
11. Slide 14 shows energy conversions associated with a hydroelectric dam. Explain how energy from the dam might allow you to toast your bread at home if your house were powered by hydroelectricity.