

## 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.**

- 10) What metric unit do we use to measure energy in science? What other value is measured in the same units?
- 11) Do “cold” things like an ice sculpture have thermal energy? Explain.
- 12) What kind of energy is illustrated by eating food?
- 13) What do power lines and lightning have in common?
- 14) What do sound energy and radiant energy have in common?
- 15) Why would you not be able to hear sound in outer space?
- 16) What does your microwave have in common with your radio and the Sun?
- 17) What is the difference between fission and fusion?

18) Describe the two types of mechanical energy.

19) If a pendulum obeys the law of conservation of energy, what causes it to eventually stop swinging?

20) 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.