Forms of Energy: Section 2.1 /18

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Read Pages 164-171 in your textbook. Once finished, complete the following questions:

1. What is Chemical Energy? (1 mark)
2. Who was Alessandro Volta and what did he invent? How does his invention work? (3 marks)
3. Briefly describe the discovery that led to the invention of the electromagnet? (2 marks)
4. How can we harness nuclear energy? (1 mark)
5. What is the most important source of energy on earth? Why? (2 marks)
6. IN YOUR OWN WORDS - Define the following: (1 mark each)
   1. Kinetic Energy
   2. Gravitational Potential Energy
   3. Mechanical Energy
7. What is the study of thermodynamics? (1 mark)
8. Who first discovered the relationship between heat and mechanical energy? How was this observation made? (2 marks)
9. Who was James Prescott Joule? How did he contribute to our understanding of work and energy? (3 mark)