**Thermodynamics Independent Lesson**

First, watch this video and take thorough notes: <https://www.youtube.com/watch?v=GqtUWyDR1fg> Then, answer these questions in your composition notebook using the video as reference

1. What is potential energy?
2. What is kinetic energy?
3. Define energy (3:57)
4. Can energy be created or destroyed?
5. Define Heat (4:09)
6. What is the most common symbol for heat?
7. What is the relationship between system and surrounding?
8. What symbol do we use to represent change?
9. What is chemical energy (6:53)

Then look up and define the term **bond** energy. Next, watch this video that gives a brief introduction to **bond energy**: <https://www.youtube.com/watch?v=5-TPVHIi39w>

1. What does every red flash represent?
2. What does every blue flash represent?
3. Is bond making exothermic or endothermic?
4. Is bond breaking exothermic or endothermic?
5. In order to break chemical bands, is energy consumed or produced?