

Name: _____ Due Date: _____ Period: _____

Chapter 2, section 3 assessment

1. Define the law of conservation of mass
2. Explain the difference between an endothermic change and an exothermic change.
3. Identify three physical changes that could happen to a plastic spoon.
4. Identify the following processes as either a chemical or physical change:
 - Drying wet clothes
 - Cutting hearts out of paper
 - Lighting a match from a matchbook
 - Melting a crayon with a hairdryer
 - Browning bread in a toaster
 - Roasting chicken in the oven
 - Burning wood in a fireplace
 - Cutting your hair
5. List several forms of evidence that you could look for to determine a chemical change has occurred.
6. Why is electrolysis of water (see chart on page 2) a chemical change when boiling water to produce a vapor not?
7. What is tarnishing, and why is it a chemical change.
8. Explain why the mass of a rusted nail would be greater than the mass of the same nail before it rusted? Assume that all of the rust is still attached to the nail. (hint: the nail rusts when exposed to the air)
9. Define thermal energy
10. How could you tell that one glass of water has more thermal energy than another, identical glass?