

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

1. Most activities involve one form of energy being \_\_\_\_\_ to another form.
2. When energy transformations occur \_\_\_\_\_ energy is always produced.
3. The Law of Conservation of Energy states that energy cannot be created or \_\_\_\_\_.
4. Complete the chart for energy transformations that occur in different devices.

| Device        | Starting Energy   | Changes to...     |
|---------------|-------------------|-------------------|
| Battery       | a.                | Electrical energy |
| Clothes dryer | Electrical energy | b.                |
| Car engine    | Chemical energy   | c.                |
| Fireplace     | d.                | Heat Energy       |
| Fan           | Electrical energy | e.                |
| Drum          | f.                | Sound energy      |

5. What is the energy transformation that occurs in a ceiling fan?  
a) electrical to chemical  
b) mechanical to electrical  
c) electrical to mechanical  
d) mechanical to thermal
6. What energy transformation is occurring in a campfire  
a) chemical to thermal  
b) Chemical to mechanical and thermal  
c) chemical to light and thermal  
d) thermal to light
7. What energy transformation occurs in a green plant on a sunny day  
a) light energy to mechanical energy  
b) light energy to chemical energy  
c) chemical energy to light energy  
d) chemical energy to mechanical energy
8. What energy transformation occurs when you rub your hands together?  
a) mechanical energy to heat energy  
b) chemical energy to heat energy  
c) mechanical energy to chemical energy  
d) heat energy to mechanical energy
- 9) Stored energy is  
a) friction  
b) potential energy  
b) kinetic energy  
d) gravitational energy
- 10) Which type of energy is contained in a tank of gasoline?  
a) chemical  
b) mechanical  
c) electrical  
d) thermal