

NAME \_\_\_\_\_

DATE \_\_\_\_\_ Pd \_\_\_\_\_

### 53.1 Anticipation Guide: Ideas About Energy

BEFORE starting the activity, mark whether you agree (A) or disagree (D) with each statement below.

AFTER completing the activity, mark whether you agree (A) or disagree (D) with each statement below.

Under each statement explain how the activity gave evidence to support of change your ideas.

**Before**

**After**

\_\_\_\_\_

\_\_\_\_\_

1. An object does not have to be moving to have potential energy.

\_\_\_\_\_

\_\_\_\_\_

2. Only living things are associated with energy.

\_\_\_\_\_

\_\_\_\_\_

3. Heat and temperature are the same.

\_\_\_\_\_

\_\_\_\_\_

4. When energy is used, it is gone forever.

\_\_\_\_\_

\_\_\_\_\_

5. The efficiency of transforming mechanical energy into thermal energy is much greater than the efficiency of transforming thermal energy into mechanical energy.

\_\_\_\_\_

\_\_\_\_\_

6. Metals are poor conductors of thermal energy and electricity.

\_\_\_\_\_ 7. Energy cannot be quantified.

\_\_\_\_\_ 8. Electricity generation means electricity is transformed from another energy type.

\_\_\_\_\_ 9. Chemical reactions can give off electrical energy.

\_\_\_\_\_ 10. Electrical energy can be transformed into light, sound, or thermal energy

\_\_\_\_\_ 11. Solar energy is a nonrenewable energy source.

\_\_\_\_\_ 12. The refrigerator in a home uses more energy than the water heater.

\_\_\_\_\_ 13. All houses use the same amount of energy.