Energy Forms and Transformations Review

1. What is the definition of energy?
2. Describe potential energy.
3. Describe kinetic energy.
4. What is the relationship between potential and kinetic energy?
5. Where, on a roller coaster, is the kinetic energy of the cart the greatest?
6. Where, on a roller coaster, is the kinetic energy of the cart the lowest?
7. Explain how we can increase the potential energy of an object.
8. List the 10 forms of energy we have discussed in class and how they are generated.
9. Give an example of each of the 10 energy forms.
10. Which energy forms are considered kinetic?
11. Which energy forms are considered potential?
12. What does the law of conservation of energy state?
13. For the following examples, state the energy transfer(s) taking place.
    1. A swinging pirate ship ride at a theme park.
    2. Bringing water to boil in an electric kettle.
    3. Gasoline to move a car.
    4. Getting a microphone to work.
    5. Opening a can of soda.