

Feel the Heat

Procedure

- 1. Observe** Hold your hands together. Do they feel cool or warm? Record your observations below.

- 2. Compare** Rub your hands together very quickly for 10 seconds. Notice whether they feel cooler or warmer than they did before. Record your observations below.

- 3. Observe** Pick up a steel wool pad and hold it in your hands. Does it feel cool or warm? Record your observations below.

- 4. Measure** Pour $\frac{1}{4}$ cup of vinegar into a bowl. Place the steel wool pad in the bowl for 2 minutes. Then remove the pad and squeeze it out over the bowl. Place the pad on a paper towel to dry for 5 minutes. **Safety:** Wear plastic gloves and goggles.
- 5. Compare** Remove the gloves and pick up the steel wool pad. Does it feel cooler or warmer than it did before? Record your observations below.

Conclusion

Write the answers to the questions below.

1. **Infer** What type of energy did you use when you rubbed your hands together? What type of energy did it change into?

2. **Infer** What type of energy was in the steel wool pad and the vinegar? What type of energy did it change into?

Investigate More!

Design an Experiment What happens when coins are rubbed against other materials? Choose some materials to try. Make a prediction about each material. Carry out your plan.

