Name(s): **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Make sure you have a built TeacherGeek Wind Lift, before starting this lab.

**Energy**is the ability to do work

**Potential Energy**is stored energy. It is as the result of its position.

**Kinetic Energy** is the energy of motion. If an object is moving, it has kinetic energy.

 

# D

# C

# B

# A

The fan is off. The bucket is lowering.

The fan is blowing. The bucket has lifted.

Write the letters to match the type of energy shown above. Use letters only once.

1. \_\_\_\_ shows potential energy turning into kinetic energy

2. \_\_\_\_ shows potential energy as a result of height

3. \_\_\_\_ shows kinetic energy that came from electricity

4. \_\_\_\_ shows the kinetic energy of blowing air; from the potential energy of the bucket



5. Put something heavy in the bucket. Wind up the bucket by hand (without
the fan) and let it drop. Notice how fast blades spin and how much air is pushed. Now put something light in the bucket. Wind it up and let the bucket drop. What’s different? Figure it out. Explain it to your instructor using these, and
other words:

□ Potential Energy □ Kinetic Energy □ More Energy □ Less Energy

Instructor Signature **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**