Lab #2 – Energy Banks and Transfers

Name:

Partner Names:

Instructions:

There are eight different stations that demonstrate a *system* (a group of objects). You must:

1. Circulate at each station.
2. Identify energy banks at the beginning AND end of each system.
3. Identify the transfer path(s).
4. Fill in the table (next page) with your answers.

Energy banks

1. Kinetics
2. Magnetic
3. Electrostatic
4. Thermal
5. Chemical
6. Potential gravitational
7. Potential elastic
8. Nuclear

The transfer routes

1. Mechanical
2. Radiation
3. Thermal
4. Electrical
5. Chemical

Station	System Description	Observations	Energy Bank(s) at start	Energy transfer(s)	Energy bank(s) in the MIDDLE/END
Example	**Lifting a mass with a motor**	What do you see? Hears? Sens? Is there a change in temperature? etc.	The battery is a chemical energy bank.	Mechanical –because there is a force applied over a distance.	The energy is transferred to the kinetic bank because the mass moves. In the end, the energy is all transferred to the gravitational bank.
1	**An oscillating pendulum**				
2	**Running a car on a ramp**				
3	**A Fan**				
4	**Lighting a candle**				

5	**Solar lamps**				
6	**Circuit with a bulb**				
7	**Catapult**				
8	**Music Box (wind up and open)**				