

Name \_\_\_\_\_

# Rube Goldberg Lab Stations

Directions: Use the supplies at each of the lab stations to create a small 2 energy transfer Rube Goldberg machine. Each station has different supplies and can complete different tasks, so use your imagination.

| Station # | List of Supplies | Simple Machines Used | Explain Energy Transfer | Diagram of Machine |
|-----------|------------------|----------------------|-------------------------|--------------------|
| 1         |                  |                      |                         |                    |
| 2         |                  |                      |                         |                    |
| 3         |                  |                      |                         |                    |
| 4         |                  |                      |                         |                    |
| 5         |                  |                      |                         |                    |

| Station # | List of Supplies | Simple Machines Used | Explain Energy Transfer | Diagram of Machine |
|-----------|------------------|----------------------|-------------------------|--------------------|
| <b>6</b>  |                  |                      |                         |                    |
| <b>7</b>  |                  |                      |                         |                    |
| <b>8</b>  |                  |                      |                         |                    |
| <b>9</b>  |                  |                      |                         |                    |

### Review Questions

Directions – Answer the following questions after completing each station.

1. Which station was the easiest to create a 2 energy transfer machine?
2. Which stations was the most challenging to create a 2 energy transfer machine?
3. What are some common materials you might have at home that could create a multiple energy transfer Rube Goldberg machine?
4. Explain in your own words how energy is conserved (not lost, created or destroyed) as it transfers from one object to another.
5. Explain how you can use simple machines that transfer energy many different times to complete one simple task.