

## Rube Goldberg Machine Data Collection

### *Physical Science and Technology*

You can collect this data using your Rube Goldberg Machine, if it is complete. You can also collect the data using someone else's machine if yours is not done. Alternatively, you can take one working part from any Rube Goldberg Machine (such as a ball rolling down a ramp, or a lever) and operate it manually to collect this data.

Fill in the following data table by using the computer to measure force, velocity, and acceleration of one MOVING object. Try to be as accurate as possible – you can make 2-3 repeats per trial if you feel that you did not get good data. Take turns with other groups when necessary.

Your data should be recorded individually, entered into an Excel data table, and printed out with your name. Please do NOT turn in one data table with more than one name on it!

Trial	Max. Velocity (m/s)	Max. Acceleration ( $\text{m/s}^2$ )	Max. Force (N)
1			
2			
3			
4			
5			