**Day 9 - Kinematics, Kinetic Sculpture & Rube Goldberg**

**Morning**

* **Quiz tomorrow (review journals)**
  + **Mention “Information Flow” = Input, Output, Processing, Storage**
* (one team finishing Guard-Bot)
* **Hand-Bot Continued**
* Program It
  + Test, Debug

**Break**

* Finish Programming

**Lunch/Afternoon**

* **Hand-Bot Challenge**
* Journaling - Reflection
* Short talk about torque using mobiles
  + T = l \* F
  + Has to balance at every level
* Simple Machines Handout
  + Name the machines in a bicycle – draw on board
  + Show Timberkit, name the machines
* Theo Jansen - Strandbeest video
* OK Go Video – This Too Shall Pass
* **Mystery Exercise (Rube Goldberg) (3 teams)**
  + Spec:
    - Use all motors & sensors, as much of kit as possible (and other parts)
    - Starts with one ball rolling, ends with other ball rolling
  + Journaling
    - Design Journal
    - Add thought about how to organize group

**Late Afternoon**

* Continue Rube Goldberg