**Trebuchet and Quadratics Data Collection Sheet**

As you begin your testing phase, make sure you keep track of all successes and failures. For each iteration

(change) of your trebuchet, not every change and a brief justification for the change.

**For each Successful Launch:**

* Slow motion of the launch (use one of your team members cell phones)
  + Label each video TeamName\_Launch#
* Create a document to record the following:
  + Record length of sling
  + Record weight of counterbalance
  + Record distance of tennis ball (first hit on the ground)

**Example**

ApplePie\_Launch2

|  |  |  |
| --- | --- | --- |
| **Length of Sling** | **Weight of Counterbalance** | **Distance of Tennis Ball** |
|  |  |  |

**For each Unsuccessful Launch:**

* Slow motion video of the launch (use one of your team members cell phones)
  + Label each video TeamName\_Launch#
* Create a document to keep track of each failure to launch
  + Write a detailed description of each unsuccessful launch and how you might change your design to facilitate a success.

**Example**

ApplePie\_Launch1

This launch failed because the sling did not release the tennis ball. We think it is because the catch for the

sling did not release on time due to a narrow release. We will change the catch on our trebuchet to have a

wider release.