MESA Module 2: Trebuchet Design

Learning Objectives:

1. What is the difference between a catapult and a trebuchet
2. What simple machines are characteristic of 1st class levers and the energy transformations within the trebuchet?
3. What are the parts of a trebuchet?
4. What is the ideal mechanical advantage of a simple machine?
5. Analyze energy transformations between kinetic and potential energy.

Quick Writes

1. What key math concepts are used in a trebuchet?
2. What key skills will be needed to complete this project?
3. What mathematical formulas will we need?