**Second Class Levers - Eraser Launching Lab**

* **question**
  + What is the best way to launch my eraser
* **hypothesis**
  + I think that I can launch it by making a high fulcrum on the edge of the table
* **procedure**
  + I will place the fulcrum on its butt end (the small end, not flat) on the edge of the table with the lever balanced in the middle. The fulcrum should be in the middle of the lever. The eraser is on the bottom (the end) of the lever.
* **results**
  + the eraser went up about 3.5 feet. I think this could be better.
* **variable to change**
  + I will remove the fulcrum to about ¾ of the way down the ruler. I will put the eraser on the opposite end of the eraser so it is right on the end.
* **results**
  + the eraser went about 6 feet in the air. I think this is because moving the fulcrum farther toward the end of the ruler made the ruler push the eraser farther up in the air before releasing (launching).
* **variable to change**
* **results**
* **final observations**
  + if the load is lighter is should fly higher
  + the longer the lever the more affective it is
    - the longer seems to multiply the force
  + the taller the fulcrum the higher it often goes
    - not all the time but there must be a relationship here
    - but this isn’t true all the time
  + The position of the fulcrum changes the height of the launch (the output or the work that is done)