

# Trebuchet Worksheet

## Post-Lab Questions

1. Did changing the height of the fulcrum affect the speed at which the projectile is launched? Why do you think this is so?
2. Does the ratio of “distance from fulcrum to counterweight” to “distance from fulcrum to sling attachment point” affect the range of the trebuchet? Give an explanation for this effect.
3. Based on your trebuchet testing experience, rank the variables tested in order from “most affects trebuchet range” to “least affects trebuchet range.”
4. The length of the sling was a constant throughout your trials. Do you believe that changing the length of the string would affect the performance of the trebuchet?
5. Did your modified trebuchet achieve the desired results? If not, what improvements might be made?