



Virtual Lab Activity 9.2

Benefits of Machines

- 1. Observe** Watch the example of how a first-class lever achieves mechanical advantage. In the example, the mechanical advantage is resistance force (F_r) divided by effort force (F_e). If an effort force of 10 pounds lifts 1 pound, what is the mechanical advantage?

- 2. Execute** Sketch a first-class lever. Then, based on your first sketch, draw a simple lever for lifting 25 pounds. Write the equation for the mechanical advantage you might achieve with this lever.