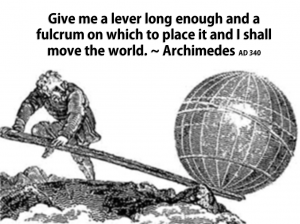
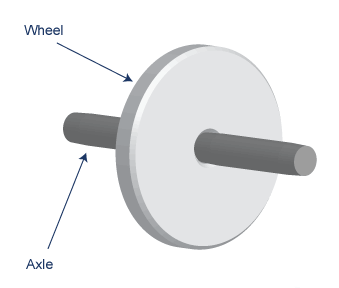
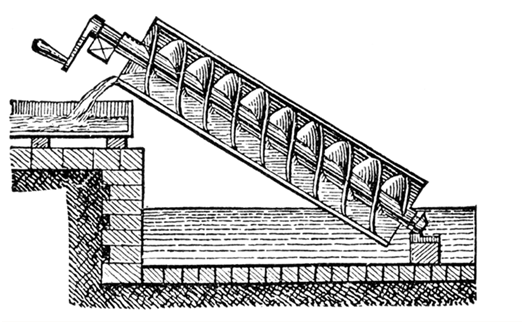
**Machines and Efficiency**

What is a machine?

Simple Machines

Complex Machines

Efficiency

In an ideal machine ­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In the real world \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

There are two versions of the efficiency equation

Example (from video clip)

(Assume there is only one boy, because otherwise this problem becomes much harder) If the boy with a mass of \_\_\_\_\_\_\_\_ moves his end of the lever \_\_\_\_\_\_\_\_\_ and the car has a mass of \_\_\_\_\_\_\_\_ and it is lifted \_\_\_\_\_\_\_\_\_\_\_\_ off the ground, what is the efficiency of the lever?