Simple Machines

Simple Machines: are devices that don’t change the amount of work done, but change the size or the direction (or both) of the force required to do the work.

**Example: using a ramp (inclined plane)**

**F = .5 N**

**D = 4 m**

**F = 1 N**

**D = 2m**

**Work??**

**Even though the force is smaller when using the ramp the total amount of work done is the same.**

**There are 6 simple machines: inclined plane, pulley, wheel and axle, lever, screw and wedge.**