SIMPLE MACHINE NOTES

Work: A transfer of energy as the result of the motion of objects

Formula: Work = Force x Distance

Machine: A device that makes work easier

Simple Machine: A machine consisting of only one part

Mechanical Advantage: A number of times a machine multiplies an effort force

Resistance Force: Force exerted by a machine (output)

Effort Force: Force applied to the machine (input)

6 Types of Simple Machines:

Lever: a bar that pivots on a fixed point a. fulcrum b. effort force c. resistance force

Pulley: wheel that changes the direction of the effort force

Wheel and Axle: large wheel fixed to a smaller wheel or fixed to a bar called an axle

Inclined Plane: slanted surface used to raise objects

Wedge: an inclined plane with one or two sloping sides

Screw: an inclined plane wound around a cylinder, usually with a sharp ridge along the edge

