

THE SIX SIMPLE MACHINES



WHAT DO THEY DO?

There are only 6 simple machines, they are:

- Wedge
- Screw
- Incline Plane
- Lever
- Wheel and Axle
- Pulley

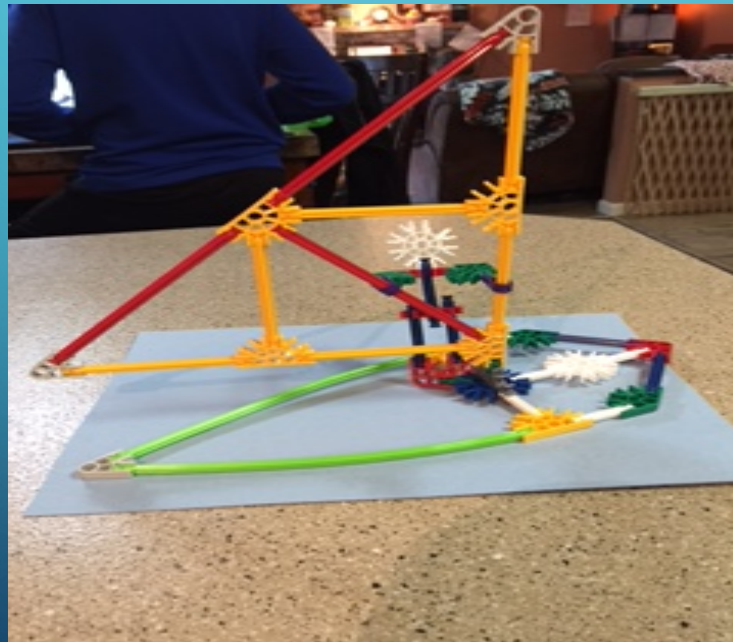
Simple machines help people do work. Work means to a scientist the distance an object moves.

Simple machines help do that work. How do they work?

It's easy for the simple machine to change the direction the object is moving or change the force required to move the object.

THE WEDGE

The “Wedge” is a tool that changes the direction of an object and cuts through material. Like a sail, it cuts the air and changes its direction and where its moving.



THE SCREW

The “Screw” is a motion that changes the direction of an object. Like a screw when you screw it into a log or wood you are fastening the screw or unfasten it which pushes on the wood.



INCLINE PLANES

An “Incline Plane” is a slanted surface used to move objects to different heights. If you had a ton of dirt and you needed to move it two yards away you would use a wagon to make the one ton easier to carry or move.



LEVER

A “Lever” is a stiff handle that pivots or turns. It makes it easier to lift objects. For example, when you are on a teeter or totter you find it easy to lift the other person off the ground.



WHEEL AND AXLE

A “Wheel and Axle” is made of a large wheel attached to a post or axle. The wheel and axle is best seen in a car. Cars can carry a lot of weight in the body of the car using this machine.



PULLY

A “Pully” is made up of a rope or chain around a wheel. A pully machine on a fishing pole is what the hook and string are attached to that makes it easy to pull up the fish.



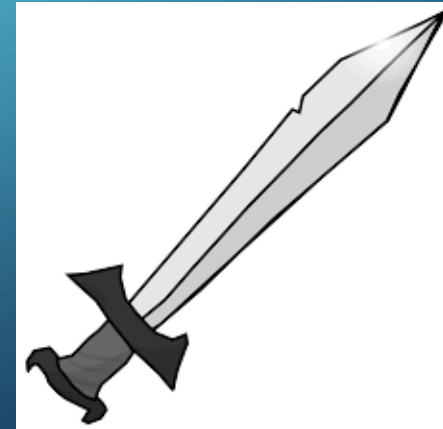
COMBINED MACHINES

A “Combined Machine” is a tool that is combined with two or more simple machines. Like the wheel barrow, the handles are levers, it has a wheel and axle, and the middle is the incline plane.



MACHINE PROGRESSION OVER TIME

Wedges were used for fighting, let's start with the spear. The spear had range but broke easily. Then the Ax came and was sturdier, but it was very short. Final the sword was invented, it did not brake and had better range than the axe.



SUMMARY

People use all of the six simple Machine in many ways like can openers, shovels, ladder, paper clasp, chainsaw, axe, etc.

