

**Write the Notes in your Notebook or Exercise Book**

**Science**  
**Simple Machines**

**Simple machines are tools used to make work easier. Simple machines do not make less work; they just make it easier to do work.**

**There are 6 different types of simple machines:**

- (1) Lever**
- (2) Screw**
- (3) Pulley**
- (4) Wheel and axle**
- (5) Inclined plane**
- (6) Wedge**

**A lever is a stiff bar that moves about a fixed point (fulcrum). A lever is used to push, pull, or lift things. A shovel and see-saw are examples of a lever.**

**A screw is an inclined plane wrapped around a cylinder or cone. A common use of the screw is to hold objects together. A jar lid and a wood screw are examples of a screw.**

**A pulley is a wheel that has a rope wrapped around it. Pulleys can be used to lift heavy objects by changing the direction or amount of the force. A flagpole uses a pulley to raise the flag.**

**A wheel and axle consist of a rod attached to a wheel. A wheel and axle make it easier to move or turn things. A bicycle wheel, roller skates, and a doorknob are all examples of a wheel and axle.**

**An inclined plane is a flat surface that is raised so that one end is higher than the other. An inclined plane helps move heavy objects up or down. A ramp is an example of an inclined plane.**

**A wedge is wide at one end and pointed at the other to help cut or split other objects. Examples of wedges: a knife or an ax**

