

WELCOME TO THE ONLINE CLASS

SESSION NO: 4

CLASS: 4

SUBJECT: SCIENCE

CHAPTER NUMBER: 10

CHAPTER NAME: FORCE, WORK AND ENERGY

SUB TOPIC: SIMPLE MACHINES- LEVER, PULLEY, WHEEL & AXLE

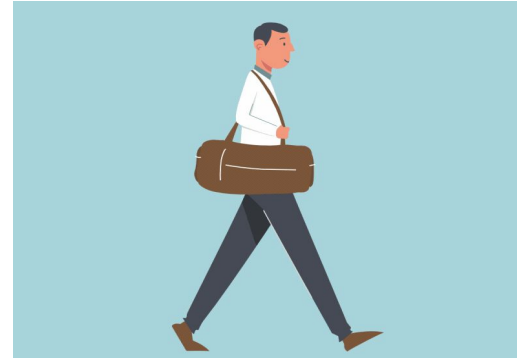
CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

Learner will able to

- **understand different types of tools used to do work.**
- **Know the application of it in day to day life.**

RECAPITULATION












- In which of the following case work is done.
- Work Done = _____ applied on an object X _____ moved by the object.
- The cup fell from your hands and broke into pieces. Name the kind of force used.

SIMPLE MACHINES

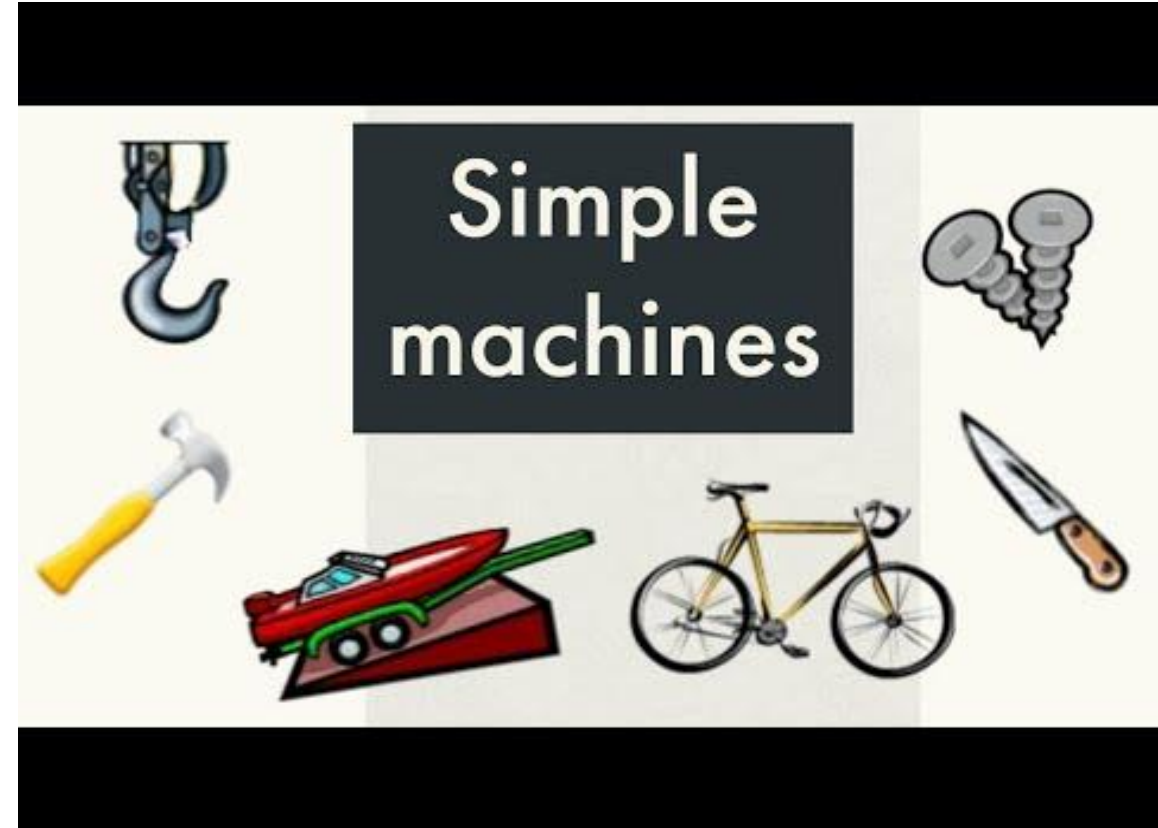
Some Everyday Examples of Simple Machines

- **Tools are used to do some work.**

	hammer		bottle opener		lid
	axe		wheel barrow		screw
	Loading ramp		can opener		clamp
	pulley		knife		shopping cart
	crowbar		scissors		wheel chair

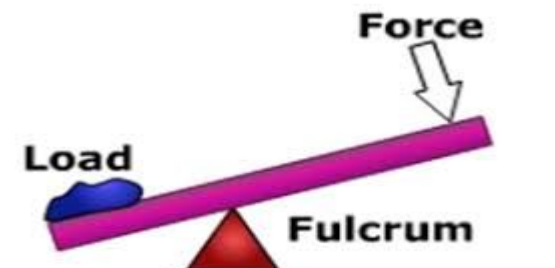
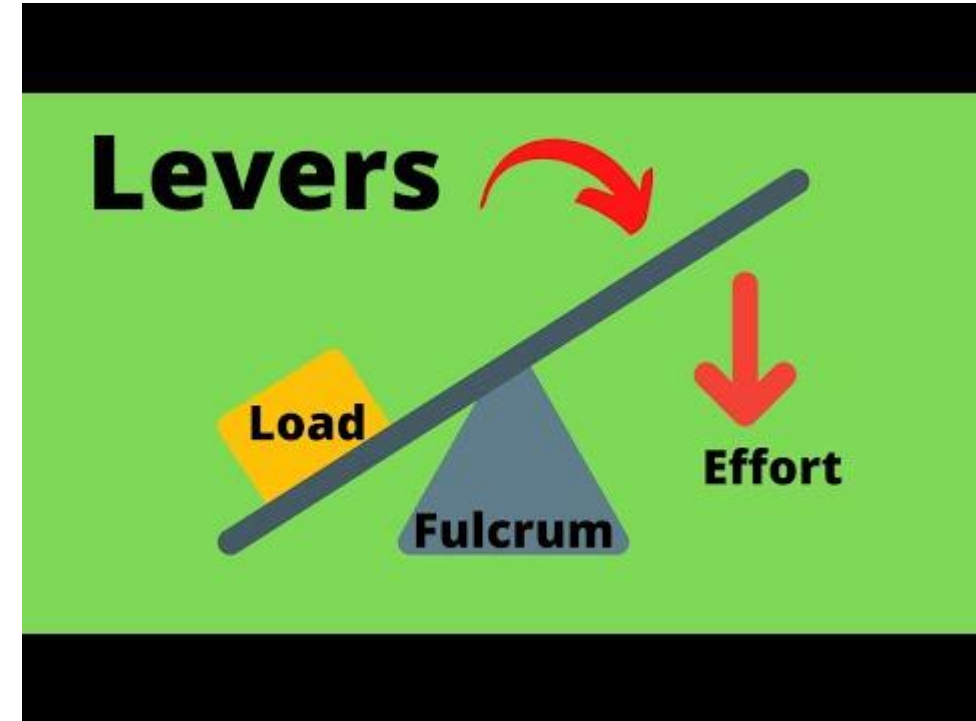
SOME EXAMPLES OF SIMPLE MACHINES

- Lever
- Pulley
- Wheel and Axle
- Inclined Plane
- Screw
- Wedge.



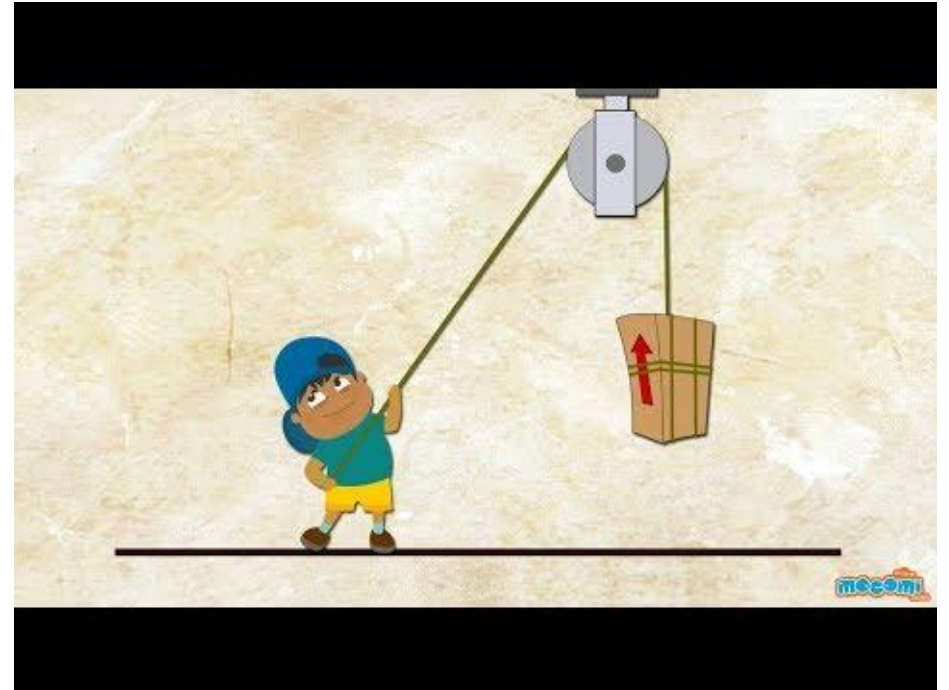
LEVER

- It is used to lift the weights.
- Cut the things and open the lids.
- Scissors and bottle-openers are examples of levers.
- A small child lifts up a heavier child on a see- saw which is also a type of lever.



PULLEY

- Pulley is made up of wheel and a rope.
- It is used to draw water from wells in villages.



WHEEL AND AXLE

- Wheel-and-axle arrangement is made up of circular object and a rod of different size.

Ex: A steering wheel, a bicycle pedal and a screwdriver are some examples of wheel and axle.



SUMMARY

- Tools which are used to do some work are known as simple machines.
- Simple machines are lever, pulley, wheel and axle, inclined plane, screw and wedge
- Simple machines help us to do our work faster and with less effort.
- It also helps in change the direction of the force used.

QUIZ TIME!!!

1. Tools used to do some work.

Ans: Simple machines

2. Simple machines helps us to do our work _____ and with less effort.

Ans: faster

3. _____ and _____ arrangement is made up of two circular objects of different sizes.

Ans: Wheel-and-axle

HOMework

- **Draw a picture of each type of simple machine and write one of its uses.**

LEARNING OUTCOME

Learner will able to

- **understand different types of tools used to do work.**
- **Know the application of it in day to day life.**

THANKING YOU
ODM EDUCATIONAL GROUP