

SESSION NO: 3

CLASS: 4

SUBJECT: SCIENCE

CHAPTER NUMBER: 10

CHAPTER NAME: FORCE, WORK AND ENERGY

SUB TOPIC: WORK

CHANGING YOUR TOMORROW

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RECAPITULATION

Various tools are used to exert the force is known as

_____•

- Name the type of force used for carrying a bag on your shoulders.
- Which kind of force can be applied to do skating.
- Why do leaves from tree falls on the ground?
 Give reason.







When we use force on an object

and the object moves through a

distance, we say that work is

done in an object.





WORK IS NOT DONE

 We don't do any work if we stand at a place with a load on our head, even for whole day, as there is no movement of the load.





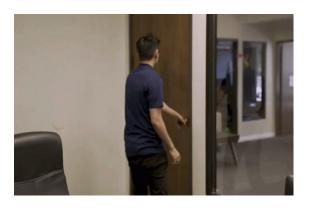


- Work is done when a load is lifted.
- When a door is opened.
- When a nut is cracked.
- When a flag is hoisted.









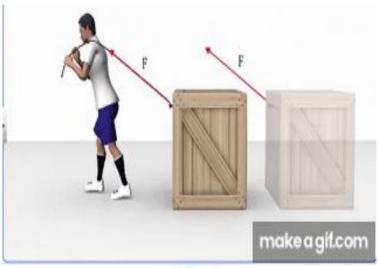
FORMULA FOR CALCULATING WORK

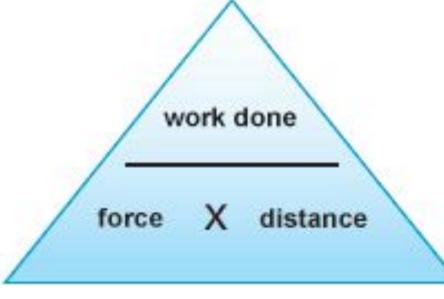


WORK DONE = FORCE APPLIED ON AN

OBJECT X DISTANCE MOVED BY THE

OBJECT





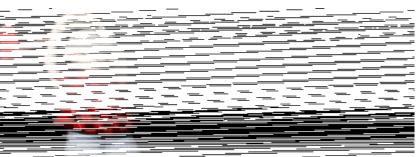












SUMMARY



- When we use force on an object and the object moves through a distance, we say that work is done in an object.
- Work is done when a load is lifted ,when a door is opened , when a nut is cracked or when a flag is hoisted.
- WORK DONE = FORCE APPLIED ON AN OBJECT X DISTANCE MOVED BY
 THE OBJECT

NAME THE KIND OF FORCE USED IN EACH CASE



- Arun bowled the fifth ball of the over. Ajay hit it to the boundary for a four. Muscular Force
- The doorbell rang. Stella run to the door. Muscular Force
- The cup fell from Shann's hands and broke into pieces. Gravitational Force
- The stone rolled down the slope and fell into the river. Frictional Force
- Ali dropped the bat. It fell on the floor with a thud. Gravitational Force
- Granny cut a piece of cloth into two with a pair of scissors. Mechanical force





1. When force is applied on a body to make it move through a distance is known as _____ done.

Ans: Work



2. Work is done when load is lifted (true / false).

Ans: True



3. Formula to calculate work.

Ans: Work done = force applied on an object x distance moved by the object



NO HOMEWORK

LEARNING OUTCOME



Learner will able to

- understand and give examples of work done.
- Know the formula of calculating work.



THANKING YOU ODM EDUCATIONAL GROUP