

SESSION NO: 1

CLASS: 4

SUBJECT: SCIENCE

CHAPTER NUMBER: 10

CHAPTER NAME: FORCE, WORK AND ENERGY

**SUB TOPIC: INTRODUCTION, FORCE AND EFFECTS OF
FORCE**

CHANGING YOUR TOMORROW

INTRODUCTION

- Which sports is your favourite?
- Have you ever seen a cricket match?



FORCE

- Force is a push or a pull that makes a body move or stop moving.

For Ex :The batsman uses force to hit the ball.



- The bowler uses force to bowl.
- The fielder uses force to stop it.



THERE ARE THREE WAYS IN WHICH FORCE CAN BE USED

Force can be used to

- move a body (the ball in this case)
- stop a moving body
- change the direction of the moving body



PUSH FORCE

- When an object is pushed, it tends to move away.
- For Ex: Kicking a ball, closing a door, pushing a trolley and inserting a plug into the socket .



PULL FORCE

- When an object is pulled, it brings it closer.
- For Ex: Opening a door, plucking the string of a guitar, drawing a bucket of water from the well and pulling the curtain.



MORE USES OF FORCE

- We apply force to push the pedals of a bicycle to make it move.
- We use force to press the breakes to stop it.



EFFECTS OF FORCE

- **A force can move a stationary object.**
- **A force can stop a moving object.**
- **A force can change the direction and speed of an object.**
- **A force can change the shape and size of an object.**

SUMMARY

- **Force is a push or a pull that makes a body move or stop moving.**
- **When an object is pushed, it tends to move away.**
- **When an object is pulled, it brings it closer.**
- **A force can change the shape, size, direction and speed of an object.**

QUIZ TIME!!!

1. The batsman uses _____ to hit the ball.

Ans: force

2. What force do you use to move the shopping cart forward?

Ans: Push

**3. A boy caught a fish .
Is a boy using a pulling force
or a pushing force?**

Ans: Pulling force



Homework



HOMework

- **Write the difficult words in your notebook.**

LEARNING OUTCOME

Learner will able to

- **Understand the concept of force and uses in daily life.**
- **Know about different effects of force.**

THANKING YOU
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