

# WELCOME TO THE ONLINE CLASS

**SESSION NO: 1**

**CLASS: 4**

**SUBJECT: SCIENCE**

**CHAPTER NUMBER: 10**

**CHAPTER NAME: FORCE, WORK AND ENERGY**

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

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**CHANGING YOUR TOMORROW**

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# LEARNING OBJECTIVE

**Learner will able to**

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

# 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**  
**ODM EDUCATIONAL GROUP**