

# WELCOME TO THE ONLINE CLASS

**SESSION NO: 2**

**CLASS: 4**

**SUBJECT: SCIENCE**

**CHAPTER NUMBER: 10**

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

**SUB TOPIC: TYPES OF FORCES**

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**CHANGING YOUR TOMORROW**

# LEARNING OBJECTIVE

**Learner will able to**

- **Understand the types of force and uses in daily life.**
- **Know to differentiate all types of force.**

# RECAPITULATION

- What do you mean by force?
- Name the kind of force used in both the pictures shown below?



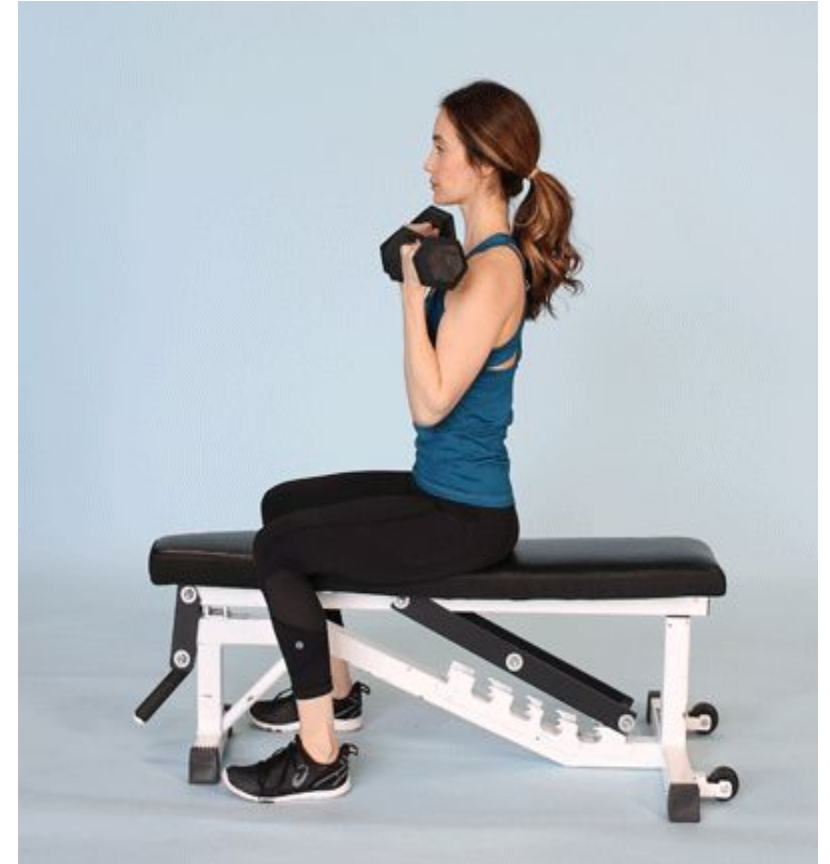
- What are the various effects of force?

# TYPES OF FORCE

- **Muscular force**
- **Mechanical force**
- **Elastic force**
- **Gravitational force**
- **Frictional force**

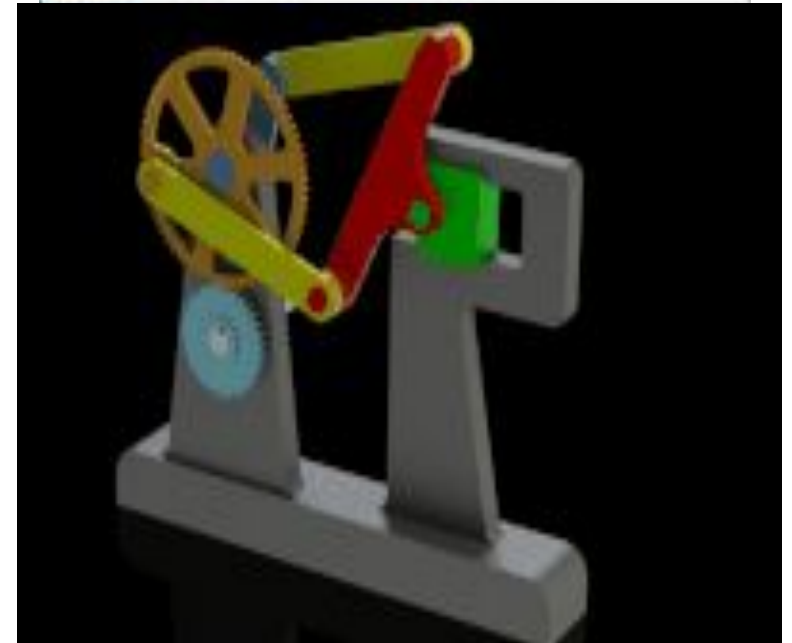
# MUSCULAR FORCE

- The force exerted by the muscles of our body.
- For example ,carrying a bag on your shoulders.
- To play basketball.
- In and out breathing.



# MECHANICAL FORCE

- Various tools are used to exert the force.
- Some examples like pushing bicycle pedals.
- Hammer is used to hit a nail into a wall, both the hammer's and the hammering person's mechanical force are used.



# ELASTIC FORCE

- Force which is used to move a catapult.
- Springs are one of the best examples of elastic force because they return back to their original shape .



# GRAVITATIONAL FORCE

- The force by which the earth pulls an object towards it.
- Leaves and fruits fall from a tree downwards towards the ground due to the gravitational pull.





# FRICTIONAL FORCE

- A moving body slow down or stops on its own due to frictional force.
- For example, driving of a vehicle on a surface.
- Doing Skating.



# SUMMARY

- **Muscular force exerted by the muscles of our body .**
- **Various tools are used to exert the force is known as mechanical force.**
- **Elastic force is used to move a catapult.**
- **The force by which the earth pulls an object towards it is known as gravitational force.**
- **A moving body slow down or stops on its own due to frictional force.**

**QUIZ TIME!!!**

1. \_\_\_\_\_ force is used to move a catapult.

**Ans: Elastic**

**2. Various tools are used to exert the force.**

**Ans: Mechanical Force**

**3. Applying a break to stop the moving vehicle is known as \_\_\_\_\_ force.**

**Ans: frictional**

# Homework



# **HOMework**

- **Do the question A in your notebook.**



# LEARNING OUTCOME

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**THANKING YOU**  
**ODM EDUCATIONAL GROUP**