

# **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**

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# 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?**



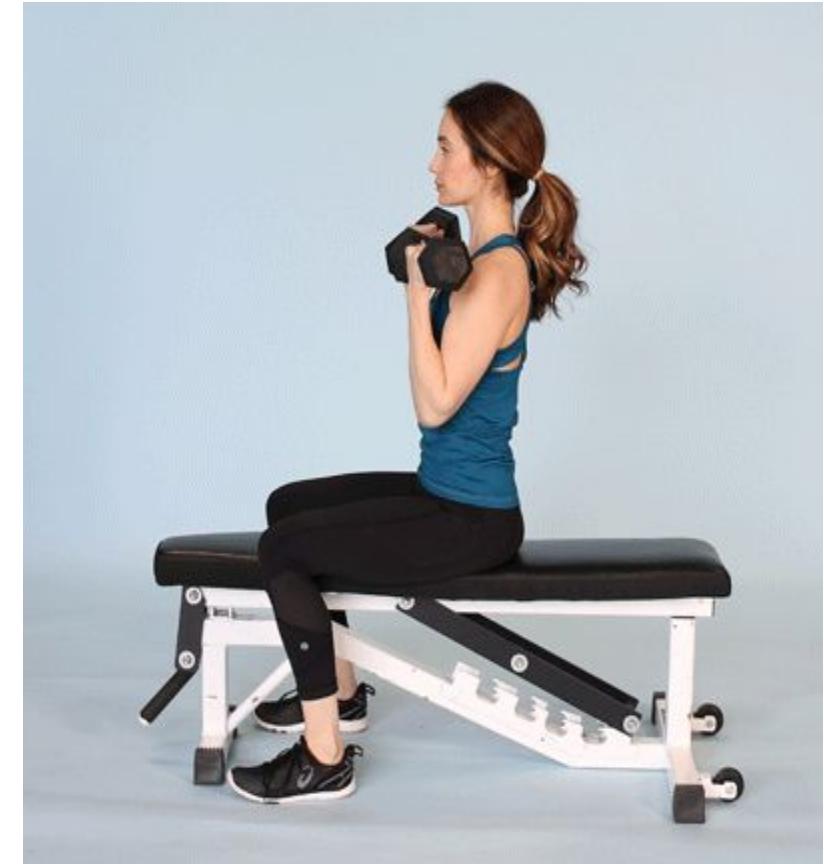
- **What are the various effects of force?**

# **TYPES OF FORCE**

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

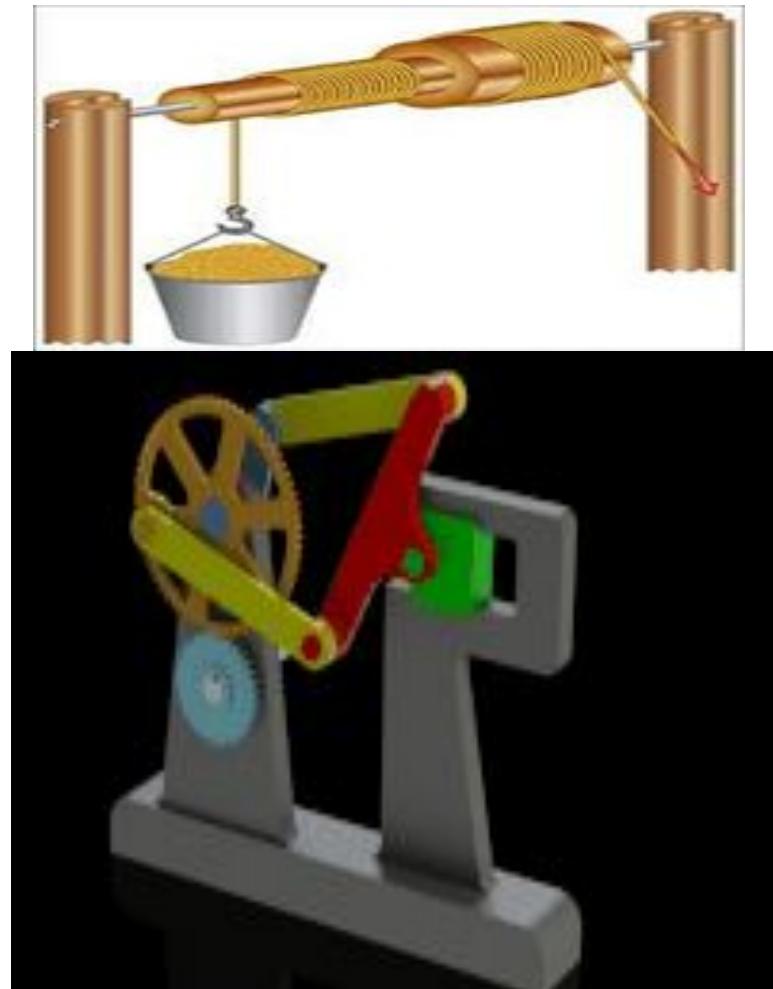
# **MUSCULAR FORCE**

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



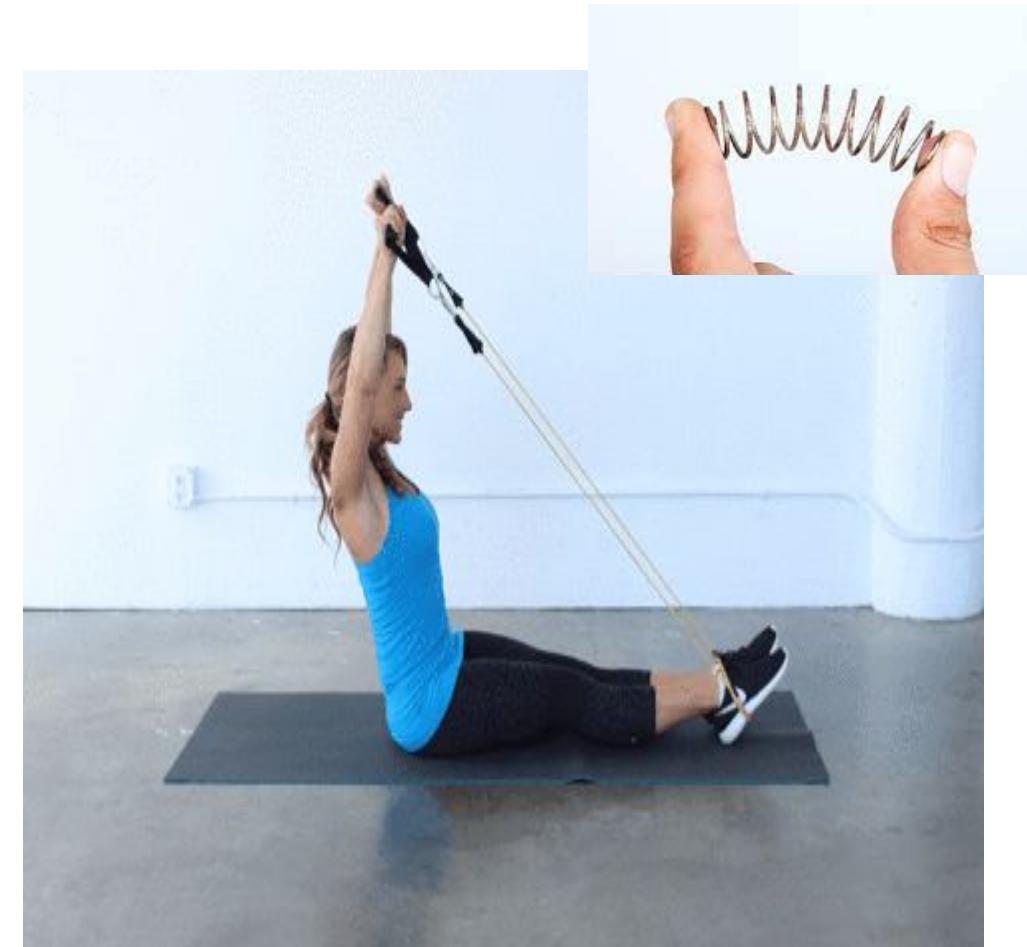
# MECHANICAL FORCE

- 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.



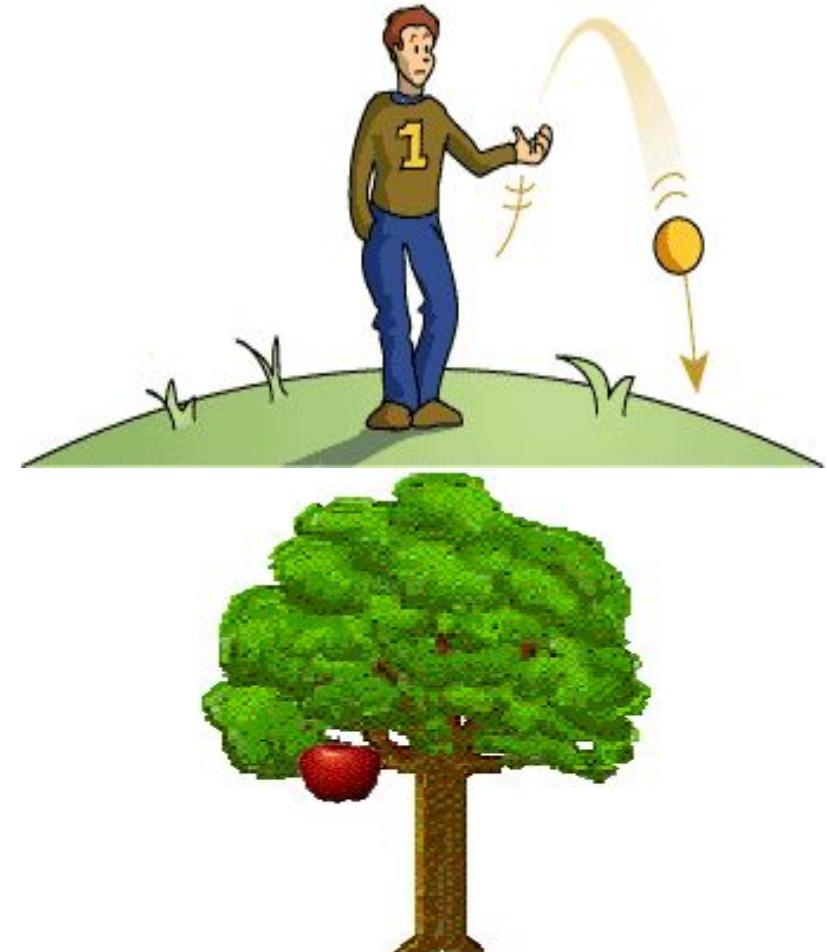
# ELASTIC FORCE

- 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

**Learner will able to**

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

**THANKING YOU  
ODM EDUCATIONAL GROUP**