

CLASS: VIII

SUBJECT: SCIENCE

CHAPTER: 11. FORCE AND PRESSURE

SUBTOPIC: TYPES OF FORCE

EXPERIENTIAL LEARNING

ACTIVITY:

Aim: To enable the students to understand the different types of force.

Materials Required: A tennis ball, balloons.

Procedure:

- **MUSCULAR FORCE:**
 - Students will be asked to do arm wrestling.
- **FRICTIONAL FORCE AND GRAVITATIONAL FORCE:**
 - A tennis ball will be thrown upwards by a student.
 - Each time the ball will be thrown to different heights.
- **ELECTROSTATIC FORCE:**
 - Each student will be given a balloon and will be asked to inflate it and tie it.
 - The inflated balloon will be rubbed vigorously against their palm.
 - The rubbed balloon will be brought close to their hair and the students will be asked to observe.
- The students experience and learn the different types of force.

CURIOSITY QUESTION:

Why is the ball always moving down even though it is thrown upwards at different heights?

ANSWER GUIDE:

- While falling down, does the ball remain in contact with the ground for a long time? Why?
- Where are you applying force in the case of arm wrestling?
- Is there any force acting between the balloon and the hair?