

Types of Forces

Experiment Objectives:

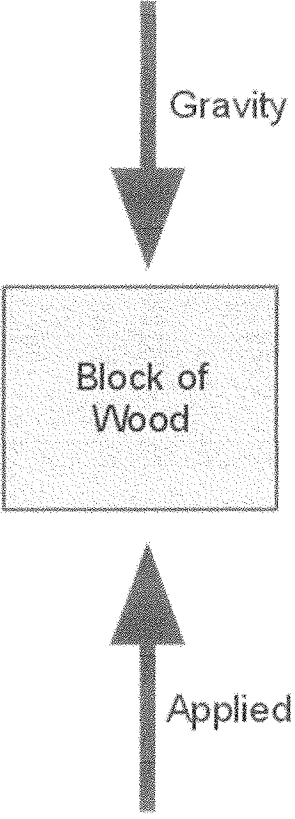
- Identify the types of forces affecting the objectives
- Identify what happens to the motion of the objects
- Be able to draw force arrow diagrams

Materials:

- Tennis Ball
- Toy Car
- Nerf Football
- Block of wax
- Parachute guy
- Paper Airplane
- Index Card
- Rubber Stopper
- Dice
- Rubber Band
- Student Chair
- Table

Procedures:

1. Using the different objects inside your white bucket, create different experiments that include the forces that affect your objects (you must create at least 10!)
2. You must create situations where each type of force is used at least twice. You can create more but **YOU MUST CREATE EACH TYPE OF FORCE TWICE.**
3. You may use more than one force in each experiment. The more forces you create in one experiment, the better.

Experiment	Type of Force(s) in your experiment	For each force, identify which object is pushing or pulling the other object	Force Arrow Diagram (Be careful to draw your arrows the correct length)
Wooden block sitting on the table	Applied (Normal) Force And Gravitational Force	<p>Applied (Normal): The table is pushing up on the wooden block</p> <p>Gravity: The Earth is pulling down on the wooden block</p>	 <p>The diagram shows a central rectangular box labeled "Block of Wood". Above the box, a thick black arrow points downwards, with the word "Gravity" written to its right. Below the box, another thick black arrow points upwards, with the word "Applied" written to its right.</p>

