

Find the Forces



Complete the following task:

Find each of the following forces within the school grounds or area suggested to you by your teacher and explain why it is the type of force.

Type of Force	Example	Explain Why
Gravity		
Normal		
Applied		
Friction		
Air Resistance		
Buoyancy		
Elastic		
Magnetic		
Tension		
Electrostatic		

1. Gravity

A force that pulls objects toward each other, especially toward the center of the Earth.

2. Normal Force

The support force is exerted upon an object in contact with another stable object (like the ground or a table).

3. Applied Force

A force that is applied to an object by a person or another object (e.g., pushing a box).

4. Friction

A force that resists motion between two surfaces that are in contact.

5. Air Resistance

A type of frictional force that acts against the motion of objects as they move through air.

6. Buoyancy

An upward force exerted by a fluid (like water) that opposes the weight of an object submerged in it.

7. Elastic Force

The force exerted by a material when it is stretched or compressed (like in a spring or rubber band).

8. Magnetic Force

The force caused by magnets or magnetic fields attracting or repelling certain materials (like iron).

9. Tension

The force transmitted through a string, rope, cable, or wire when it is pulled tight.

10. Electrostatic Force

The force between electrically charged objects, like the shock you feel after walking on carpet.