



Worksheet 1

Name :

Subject:

Science

Class:

Fifth grade

Date:

Forces

- **What is a Force?**

—> A force is a push or pull that causes an object to move, speed up, slow down, stop, or change direction.

- **What can a force do to an object?**

—> A force can make an object move, speed up, slow down, stop, or change direction.

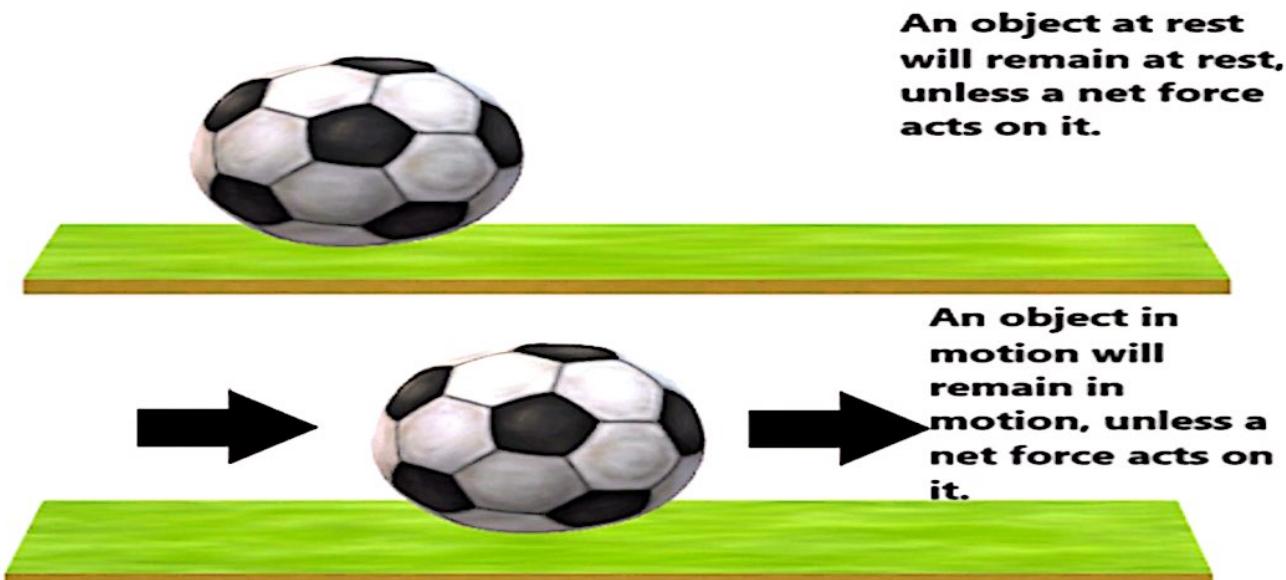
- **How is a force applied?**

—> A force is applied by pushing or pulling an object.

- **What is Newton's first law of motion?**

—> Newton's first law states (that objects at rest will stay at rest, and objects in motion will continue moving at the same speed and direction unless acted upon by an external force).

<https://youtu.be/5oi5j11FkQg?si=ESQ0JTPVkwFW6X62>



- **What are the two classes of forces?**

1. **contact forces**
2. **non-contact forces.**

- **What are contact forces?**

→ Contact forces require physical contact to act on an object.

Example: pushing or pulling a door.



- **What are non-contact forces?**

→ Non-contact forces act without physical contact.

Example: gravity and magnetism.

- **What type of force is used when a boy pushes a lawnmower?**

→ **Pushing force.**



Examples of contact forces

- **What causes the branches to move in the wind?**

→ **The wind force moves the branches.**



Practice

Part A: Define the Following:

1. Force: (2/12/2028)

is a push or pull that ~~sets~~ causes an object to move, speed up, slow down or stop or change direction.

2. Newton's first law of motion: (2/2/2028)

Objects at rest will stay at rest, objects in motion will continue moving at the same speed and direction unless acted upon by an external force.

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Practice

Part A: Define the Following:

1. Force:

2. Newton's first law of motion:

3. Impulse:

4. contact forces:

5. non-contact forces:
