The National Orthodox School Shmaisani

The National Orthodox School/ Shmaisani

Subject: Science/ Physics

Name: Key **……**

Remedial worksheet (Forces)

Date: ……

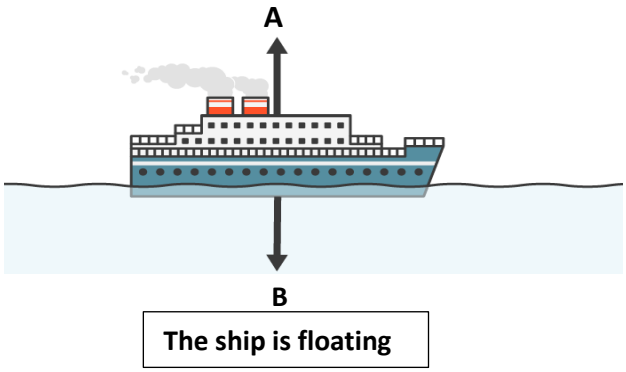
Grade 6 CS all sections

Objectives:

- Identify different forces acting on different situations.
- Differentiate between contact and non-contact forces.
- Calculate mass and weight on different planets.

Question 1:

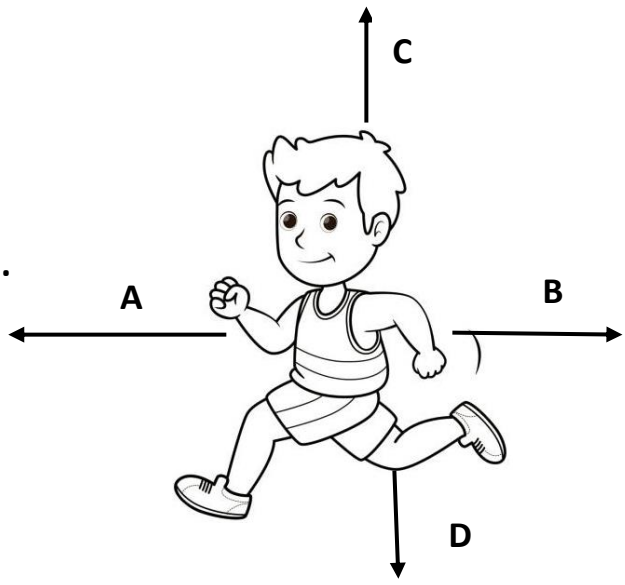
Identify the forces acting in each situation:



The ship is floating

A: Up thrust

B: Weight



A boy is running in this direction ←

A: Thrust

B: Air resistance + Friction

C: Normal (reaction)

D: Weight

Question 2:

Answer the following questions about contact and noncontact forces:

- The type of forces that act when objects are not touching: non-contact,

  Examples: Magnetic force, Electrostatic force .

- This type of forces that only act when objects are touching: contact force,

  Examples: Tension, water resistance .

Question 3:

An object has a mass of 40 kg on Earth. Study the following table and answer the question below.

Weigth(N)= Mass x gravitational field
(kg) strength (N/kg)

The planet	Gravitational field strength
Saturn	11 N/Kg
Earth	10 N/kg
Jupiter	25 N/Kg

- Calculate the object **weight** on **Saturn**:

  40 X 11= 440 N .

- Calculate the object **mass** on **Saturn**:

  40 kg .

- If the object weight on Earth is 400 N calculate the **gravitational field on Earth**: 400/40=10 N/kg .

- Calculate the object **weight** on **Jupiter**:

  40 X 25 = 1000 N .