

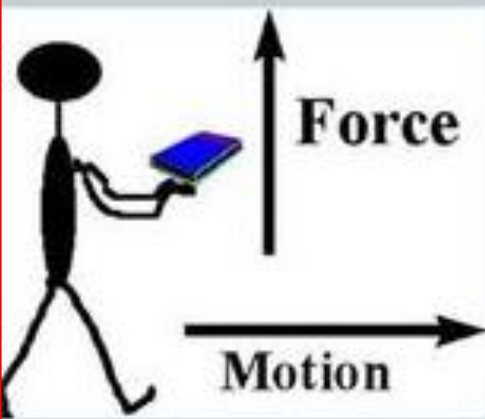
Practice worksheet

CLASS: VIII

Forces and Pressure

Term I

Push and Pull Forces





Practice worksheet



Identify the images and write the type of forces: -

Images	Contact/non-contact forces	Types of forces
The boy is throwing a ball. 		
The boy is riding a bicycle. 		
Apples are falling from a tree. 		
Windmill produces electricity. 		
Unlike poles attract each other. N S N S		



Practice worksheet



Identify the images and write the type of forces: -

Sr No	Item	Type of force	Effect of force
1			
2			
3			



Practice worksheet



I. Fill in the blanks

Pressure=-----/ -----, its units are ----- per square ----- (or -----) . In fluids (liquids and gases) pressure acts in ----- directions and pressure ----- as depth increases.

II. Explain the following: -

1. It is more comfortable to sit on a bed than on a fence.
2. I can lie on a bed of nails if there are many nails.
3. Eskimos wear snowshoes.
4. You can fill a bucket from a downstairs tap quicker than from a tap upstairs.
5. An iron nail sinks but an iron ship floats on water.
6. A ship rises as it sails from freshwater to salt water.



Practice worksheet



Word problems: -

1. A box weighs 100N and its base has an area of 2 m^2 . What pressure does it exert on the ground?

2. If atmospheric pressure is $100,000 \text{ N/m}^2$. What force is exerted on a wall of area 10 m^2 ?

3. In a hydraulic brake, a force of 500N is applied to a piston of area 5 cm^2
 - a) What is the pressure transmitted throughout the liquid?

 - b) If the other piston has an area of 20 cm^2 , what is the force exerted on it?

1. A solid has a mass of 2000Kg and a volume of 4 m^3 . Will it sink or float in water?

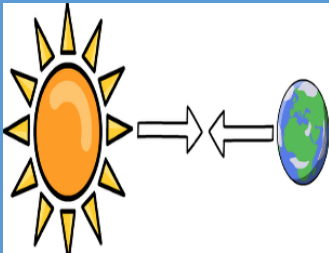
From the given objects children should be able to identify the type of force(contact or non-contact force): -



Which force is applied -----.



Which force is applied -----.



Which force is applied -----.



Which force is applied -----.



Which force is applied -----.



Which force is applied -----.



Which force is applied -----.



Which force is applied -----.



Practice worksheet



Teachers encourages the children to choose the correct word from the boxes and complete the sentences.

Stop

Direction

Move

Shape

Speed up

1. Forces can make objects -----



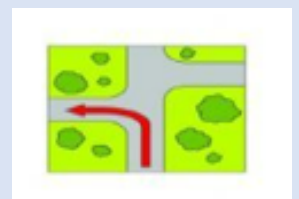
2. Forces can change the -----



3. Forces can make objects -----.



4. Forces can change the -----.



5. Forces can make objects -----.



Identify the images and write the type of forces: -

