



INDIAN SCHOOL MUSCAT
DEPARTMENT OF SCIENCE



SUBJECT : SCIENCE

TOPIC : Force & Pressure

Ref Text: NCERT

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Revision Worksheet No:1

CLASS: VIII

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Name of the Student: _____ **Class VIII & Sec:** ____ **Roll No:** ____

Q1.a.Why Lorries and trucks carrying heavy loads have eight tyres instead of four?

b. Why potters place a round piece of cloth on their heads when they carry heavy loads?

Q.2.When we stop pedaling the bicycle it slows down and gradually stops. Why?

Q3. When two forces are applied at the same point but in the opposite direction on an object, What will be the net force?

Q.4.A gas balloon moves up. Is the upward force acting on it larger or smaller than the force of gravity?

Q.5.You want to lift a heavy box. The force of gravity pulls it downward with 500N.

a) How much force will you have to apply to lift the box?

b) If your friend supports the box from below with a force of 270N, how much force will you have to apply to lift the box?

Q6. Women generally weigh less than man. The footprints of women wearing pointed heels are however deeper than those of a man wearing flat shoes. Give reason.

Q.7. A force of 1200 N acts on the surface of area 100m^2 normally. What would be the pressure on the surface?

Q.8. The pressure of a gas contained in a cylinder with a movable piston is 300 Pa. The area of the piston is 0.5 m^2 . Calculate the force that is exerted on the piston.

Q.9. The pressure exerted on an object is 50 Pa. What will be the area of contact when A force of 750N is applied.

Q10. a) Why is the fluid from the bottom hole forced out farther than the fluid from the top hole?

b) Is the air pressure greater at the base of a mountain or the top of the mountain? Explain.

Q10. State the factors on which friction in fluids depend.
