



**INDIAN SCHOOL MUSCAT  
MIDDLE SECTION**



**SUBJECT: SCIENCE**

**REVISION WORKSHEET #2**

**TOPIC: FORCE AND PRESSURE**

**CLASS: VIII**

**RESOURCE PERSON: Ms. PREETHA VINOD**

**DATE:**

**Name of the student \_\_\_\_\_ Sec \_\_\_\_\_ Roll No \_\_\_\_\_**

Q1.a. Why are Lorries and trucks carrying heavy loads have eight tires?

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

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Q2. When we stop pedaling the bicycle it slows down and gradually stops. Why?

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Q3. When two forces are applied in the opposite direction on an object, what will be the net force?

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Q4. A gas balloon moves up. Is the upward force acting on it larger or smaller than the force of gravity? Why?

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Q5. 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?

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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?

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

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

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

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

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Q10. a) Liquids flowing out from a hole at the bottom of a bottle goes farther than the liquid that comes out through a hole at the top. Why?

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

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Q10. State the factors on which fluid friction depend.

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