Department of Education, Sabaragamuwa Province – weekly school

Subject - science

Week – March 3rd week.

Grade 09

prepared by - Achini S. Rajapaksha
Karawita central College

Pressure exerted by solid (part 1)

✞ Read page 60,61,62,63,64,65 and 66 then answer the following questions.

01. From above diagrams which bag is easy to carry? Explain.

02. What is mean by pressure?

03. Engage in activity 5.1 and fill in the following table.

Instance	No. of sand bags hung	Weight of sand bags (N)	Time taken to cut through the cake of soap (s)
01	01	10	-
02	02	20	
03			
04			

04. Engage in activity 5.2, 5.3 and 5.4 and record your observations.

Activity 5.3

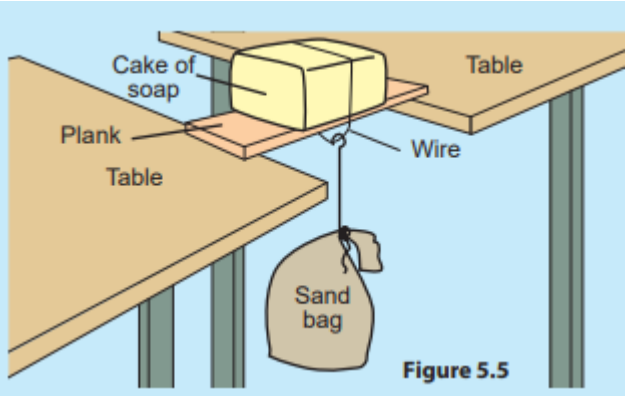
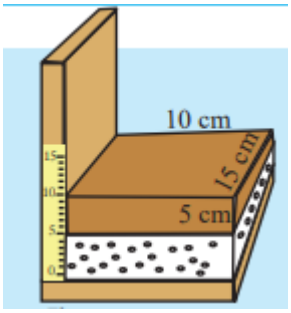
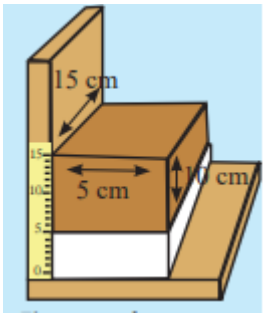


Figure 5.5

Activity 5.4





05. According to the above activities it is confirmed that the pressure exerted by a solid object on a solid surface depends on two factors. What are they?

- Pressure exerted by a solid object on a solid surface can be calculated according to the following formula.

$$\text{Pressure } (P) = \frac{\text{Perpendicular force } (F)}{\text{Surface area on which the force is acting } (A)}$$