

Worksheet 2 |

Lower Secondary
Stage (6-8)

1st Semester | 2023-2024

Name: Key

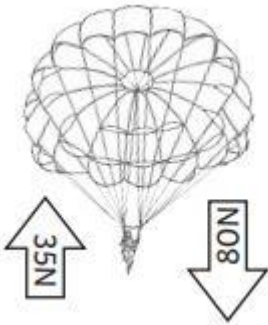
Subject: Science

Objectives:

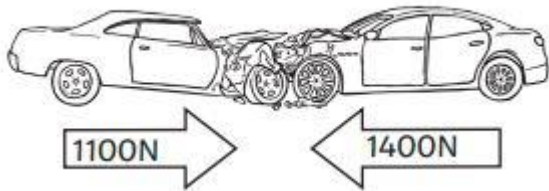
Garde 7 A

- To identify forces acting on objects.
- To calculate the resultant force acting on different objects

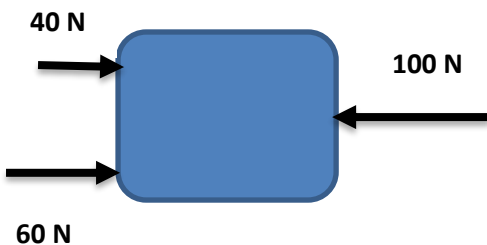
Question 1: Calculate the resultant force in each of the following situations:



Resultant force: $80\text{ N} - 35\text{ N} = 45\text{ N}$ (Unbalanced forces)



Resultant force: $1400\text{ N} - 1100\text{ N} = 300\text{ N}$ (Unbalanced forces)



Resultant force: $(40\text{ N} + 60\text{ N}) - 100\text{ N} = 0\text{ N}$ (Balanced forces)

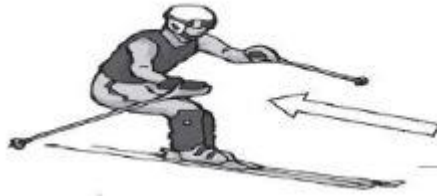


Resultant force: $80\text{ N} + 80\text{ N} = 160\text{ N}$ (Unbalanced forces)

Question 2: Look at the pictures below. Write the name of the forces next to the arrows.



Gravity



Air resistance

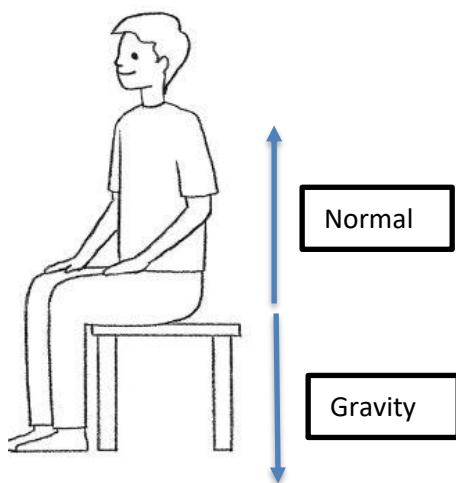


Thrust

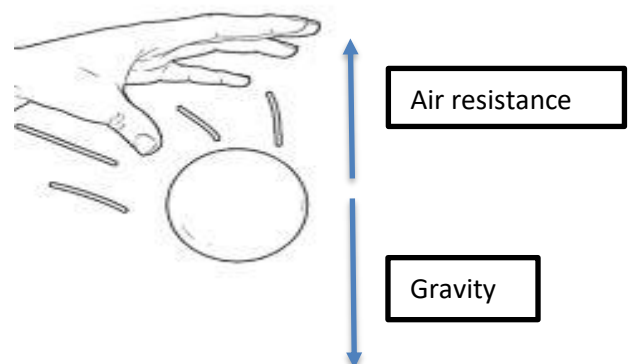


Up thrust

Question 3: Draw a force diagram for the following situations.



A boy sitting on a chair.

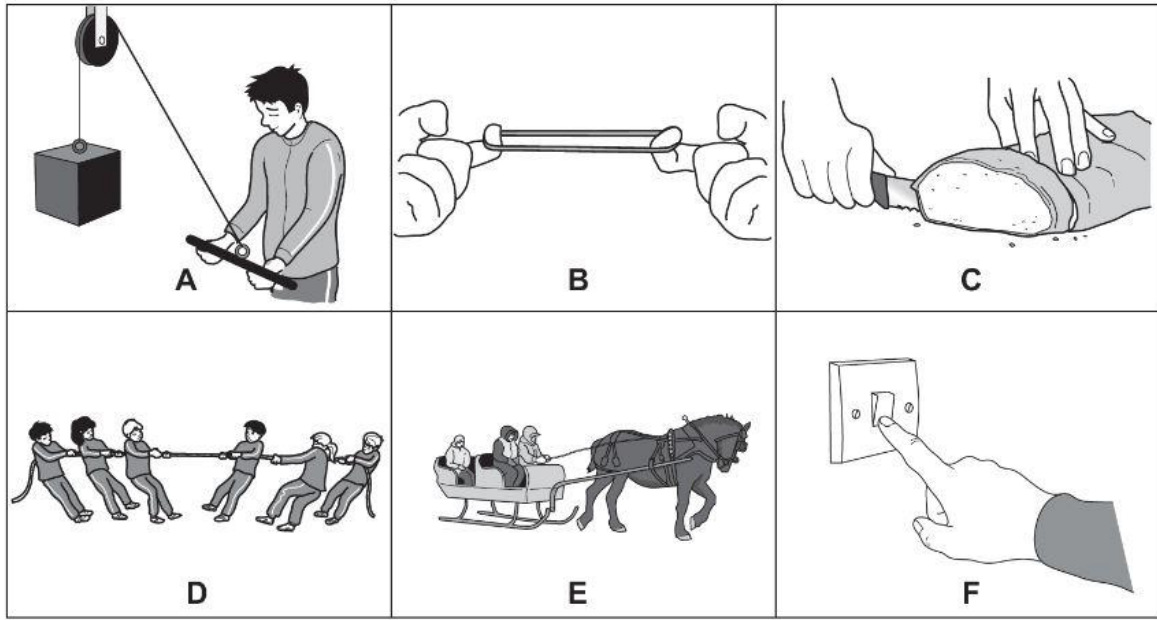


A falling ball

Question 5 :

Forces can be pushes or pulls.

Here are six pictures.



Write the letter that represents the following

Pushing force: C . F .

Pulling force: A . B . D . E .

Question 6 :

Complete the sentences about friction.

Choose from the list.

- easier force gravity harder
 material move the same

Friction is a Force .

Friction happens when two touching surfaces move .

Friction makes movement Harder .