



Lower Secondary Stage (6-8)

1<sup>st</sup> Semester | 2023-2024

Name: Key

**Objectives:** 

Subject: Science

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:



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



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





## Question 4 :

Cars have different forces acting on them.



The car is **moving** in the direction of arrow X.

a) Which letter shows the weight of the car? \_\_\_\_\_\_.

b) which letter shows the air resistance?

C) Draw an arrow to show the direction of friction acting on the car:

d) If the forward force acting on this car is equal to the total backward forces then:

Tick the correct box:



The forces are unbalanced and the car will speed up.

The forces are balanced and the car will stop moving.

The forces are balanced and the car will continue moving in the same speed and direction.

## 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	material move		the same	
Friction is a	Force	······································			
Friction happens when two touching surfaces				ve	
Friction ma	kes movement	Harder			