

# NATURAL SCIENCE

## UNIT 5: MACHINES CAN MOVE



1

Choose the best option:

1. Which of the following is a simple machine?

- a) A wheelbarrow.
- b) A lever.
- c) A car.

2. Which force moves a car forward?

- a) Thrust.
- b) Friction.
- c) Drag.

3. What does Archimedes' Principle explain?

- a) Why planes fly.
- b) Why objects float or sink when they are introduced in water.
- c) How machines work.

4. What happens if an object weighs more than the water it displaces?

- a) It floats.
- b) It sinks.
- c) It flies.

5. What is lift?

- a) The force that pulls planes down.
- b) The force that pushes planes back.
- c) The force that pushes planes up.

6. How is thrust created in an airplane or a car?

- a) By its engine or motor.
- b) By the air when it opposes to the movement.
- c) By the shape of the plane's wings.

7. Which of the following statements is TRUE?

- a) For landing, weight must be greater than lift.
- b) For landing, lift must be greater than weight.
- c) For landing, thrust must be greater than drag.

8. Which of the following statements is FALSE?

- a) Cars need energy to move.
- b) Cars can get energy from an electrical or combustion engine.
- c) Cars can only get energy from fuels.

# NATURAL SCIENCE

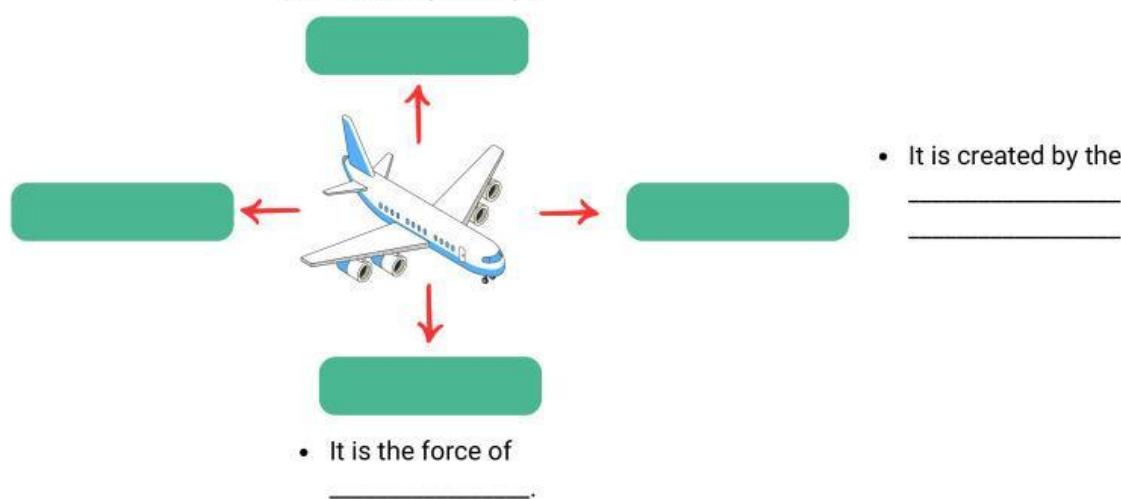
## UNIT 5: MACHINES CAN MOVE



2

Complete the following diagrams:

- It is the resistance that the \_\_\_\_\_ opposes to movement.



- The \_\_\_\_\_

makes the airflow faster and lifts the plane up.

- It is created by the \_\_\_\_\_

- It is the force of \_\_\_\_\_.

3

Answer the following questions:

1. Which force opposes drag? \_\_\_\_\_

2. Which are the three forces of a car? \_\_\_\_\_

3. What happens when we put an object in water? \_\_\_\_\_

4. What is a simple machine? \_\_\_\_\_

5. How many types of simple machines are there? \_\_\_\_\_