

NATURAL SCIENCE

UNIT 5: MACHINES CAN MOVE



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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.

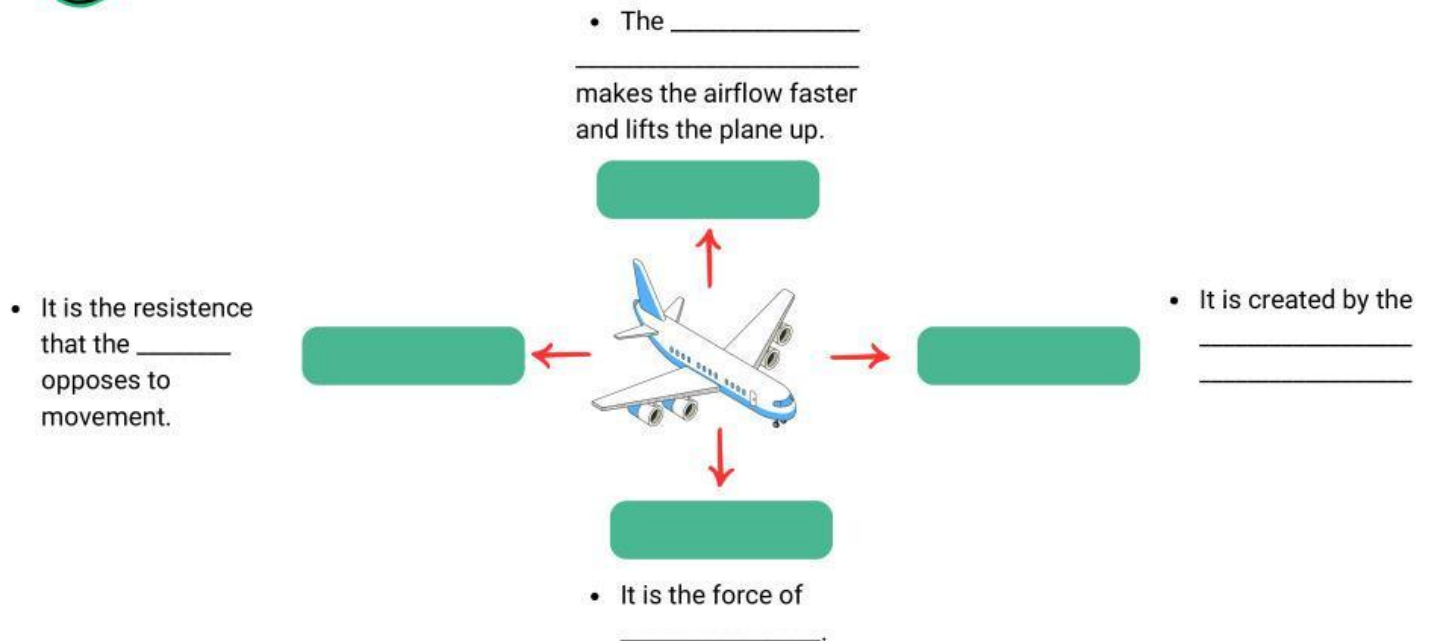
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Complete the following diagrams:



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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? _____