

Worksheet: Electric and Gravitational Force

Name: _____ Grade: 5 - ____ Date: _____

Part A. Choose the best answer.

1. What happens when two objects with the **same charge** are near each other?
 - a. They attract
 - b. They repel
 - c. They stay still
 - d. They lose their charges
2. Which factor **increases** the strength of gravitational force between two objects?
 - a. Smaller mass
 - b. Greater distance
 - c. Larger mass
 - d. No distance between them
3. Which of the following is a **non-contact force**?
 - a. Pushing a chair
 - b. Pulling a rope
 - c. Gravity
 - d. Kicking a ball

Part B. Complete the sentences with the correct words:

1. Electric forces are created when there are _____ electrical charges inside an object.
2. Objects with opposite charges _____ each other.
3. The Earth's _____ keeps everything on its surface.
4. Gravitational force depends on two things: _____ and _____.

Part C. Answer in 2–3 sentences.

1. Why does your hair stand up when you rub a balloon on it?

2. Why does a tennis ball's gravitational force seem too weak to observe compared to Earth's?

3. How are the interactions between magnets similar to those between charged objects?

Teacher's Feedback:
