

Forces From Afar

Read for examples of forces that move objects without touching them.

2.2.b “some forces, including gravity and magnetism, can cause objects to move from a distance; and”

NAME _____

DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Circle each word *gravity* or *magnetism* only in a sentence that says it pulls an object toward a place or across a surface, then number your circles 1 to 4 to show the four examples.

Nia Tests Two Forces

- ① At recess, Nia drops a ball from her hand. Gravity pulls the ball toward Earth, so the ball falls without anyone touching it. Gravity also keeps people, books, and playground swings from floating away.
- ② Later, Nia holds a bar magnet near a paper clip on her desk. Magnetism pulls the paper clip across the desk before the magnet touches it. The magnet can pull some metal objects, such as paper clips.
- ③ Forces can act from a distance, which means they can make an object move without a touch. Gravity pulls a falling leaf toward Earth. Magnetism can pull an iron nail toward a magnet.

2 ANSWER WITH EVIDENCE _____ Use the passage

1 What force makes Nia's ball fall toward Earth?

2 What object does magnetism pull across Nia's desk?

3 How are gravity and magnetism alike in the passage?

3 YOUR TURN _____ Your own words

Draw two panels: Panel 1 shows gravity moving an object without a touch, and Panel 2 shows magnetism moving a metal object without a touch. Label each force, object, and where the object moves.

PART 1 • READ AND MARK

Circle each word *gravity* or *magnetism* only in a sentence that says it pulls an object toward a place or across a surface, then number your circles 1 to 4 to show the four examples. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	What force makes Nia's ball fall toward Earth?	Gravity.
2	What object does magnetism pull across Nia's desk?	A paper clip.
3	How are gravity and magnetism alike in the passage?	Both can pull objects and make them move without touching them.

PART 3 • YOUR TURN (SAMPLE ANSWER)

Panel 1: Gravity pulls a rock down toward Earth. Panel 2: Magnetism pulls a paper clip toward a magnet.

Accept answers that identify gravity as pulling objects toward Earth and magnetism as pulling some metal objects toward a magnet, without contact. For the drawing, accept any accurate object and clearly labeled movement caused by each force.