

Name _____ Class _____ Date _____

Chapter 7 Newton's Third Law of Motion—Action and Reaction

Exercises

7.1 Forces and Interactions (page 107)

- A force is always part of a(n) mutual action that involves another force.
- Define **interaction**. a mutual action between one thing and another
- Describe the interaction forces between a nail and a hammer that hits it.
The hammer exerts a force on the nail, and the nail exerts a force on the hammer.

7.2 Newton's Third Law (page 108)

- State Newton's third law.
Whenever one object exerts a force on a second object, the second object exerts an equal and opposite force on the first object.
- Is the following sentence true or false? It doesn't matter which force we call *action* and which we call *reaction*. true
- Action and reaction forces are equal in strength and opposite in direction.
- Is the following sentence true or false? In every interaction, the forces always occur in pairs. true
- Complete the table by writing the reaction for each action.

Action	Reaction
When you walk, you push against the floor.	<u>The floor pushes against you.</u>
The tires of a car push against the road.	<u>The road pushes back on the tires.</u>
When swimming, you push the water backward.	<u>The water pushes you forward.</u>
A dog wags its tail.	<u>The tail wags the dog.</u>
You push on a wall.	<u>The wall pushes on you.</u>
When a batter swings, the bat exerts a force on the ball.	<u>The ball pushes back on the bat.</u>

- Use the idea of action and reaction forces to explain why a person trying to walk on ice may not have any forward motion.
Because there is minimal friction between the person and the ice, the person may not be able to exert an action force against the ice. Without an action force, there cannot be a reaction force to push the person forward.

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Mr. Hoffner's Classroom

Ch 33 Think & Explain Answers. An electric field is different from a gravitational field in that: (1) an electric field affects charges, a gravitational field affects masses. (2) charges can be shielded from an electric field, but masses cannot be shielded from a gravitational field.

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