

Chapter 7

Use with Section 3

ENRICHMENT**• Newton's Third Law****Explaining a Car Accident**

When you arrive at school you notice that a large group of students is gathered in the cafeteria. You decide to walk over and find out what is going on. Apparently, one of your friends has been in a car accident. As you listen to her explain what has happened, you learn that she was delivering pizzas last night and a car ran into the back of her car while she was stopped at a stoplight. She said that she was all right, except for the whiplash she suffered. She said that the oversized neck brace she was wearing could come off in a week or two if she felt better.

Use Newton's third law of motion to answer the questions.

Newton's third law of motion states that forces occur in equal but opposite pairs.

1. Use Newton's third law of motion to explain what has happened to your friend.

2. What role do headrests play in what happened to your friend? Would she have been better off if there hadn't been a headrest? Explain.
