

Read the passage. Then answer each question.

FORCE

Imagine you're going bowling. You roll the ball down the lane, and it hits a bowling pin. The bowling pin stays up.



Is that what you would expect to happen? Probably not, because the bowling ball exerted force on the bowling pin, so it should have been knocked over! Force is the push or pull upon an object. Since the bowling ball moves and hits the bowling pin, the force causes the bowling pin to move, too.

Is force at work in other sports? Yes, it is! Think about baseball. The ball could not fly out of the stadium by itself. The pitcher uses the force of his or her arm to make the ball go. The batter uses force to make the bat hit the ball, so the ball will move towards the outfield.

What about football? The same force the pitchers use in baseball works in football, too. The ball cannot move by itself, the quarterback has to use force to throw the ball to another player.

Here's a different situation: what happens when two football players who have the same strength go to go block each other? They have the same strength and so they might have the same force on the other player. What happens if two objects that have the same force try to push from opposite sides? Nothing! They players would stay in the same spot, trying to force the other, until the referee blows the whistle.

Force is not just at work in sports, either. You can experiment with force right now! Get a block. Use one hand to exert force on the block by pushing it along the surface of a table (not too hard, you don't want to break anything!). What happens? The force makes the block slide. Now try putting one hand on each side of the block and push your hands together. Does the block move? Probably not, since you are probably exerting the

same amount of force on each side of the block. If there is more force on one side of an object, it will move. If there is the same amount of force on all sides of the object, it will stay still. Have fun experimenting with force!

Answer each question:

1. What is the passage mostly about?
2. What does the word force mean? Highlight the sentence that tells you.
3. What is the main topic of the fifth paragraph?
4. Write what happens when force is exerted on one side of an object.
5. How is that different than if force is exerted on both sides of an object?
6. What causes an object to move?