

Name _____

Identifying forces

Force Is The Name Of The Game

Forces are all around us. They allow us to run, throw a ball, or ride a bicycle.

Directions: Read each activity below. Then write a Force Fact letter in each tennis ball that identifies the force controlling the action.



Force Facts

- A. If an object is at rest, it will remain at rest until a force (a push or a pull) is applied to it.
- B. An object in motion will continue to move in a straight line at a constant speed unless a force acts on it.
- C. When the force on an object is increased, the speed increases.
- D. The motion of an object is affected by friction (a force caused by two objects rubbing against each other).
- E. The motion of an object is affected by gravity (a force that gives things weight and makes them fall).
- F. A force can change the direction an object is moving.
- G. A force can change the shape of an object.



1. a cyclist pedals harder to pass another cyclist



2. a diver bounces off a diving board and plunges down into the water



3. a golfer puts a ball into the cup at the 18th green



4. a tennis player hits a ball back into his opponent's court



5. a baseball player slides into third base



6. a race-car driver turns the steering wheel of her car as she moves around the track



7. a bicycle tire fills with air



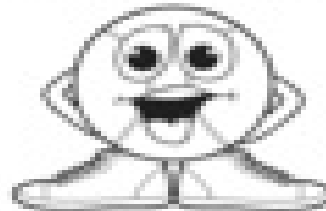
8. a race-car driver slams on the brakes



9. a football player kicks a field goal



10. a soccer goalie saves a goal



Bonus Box: Choose a tennis game or sport. On the back of this sheet, write an example of an action that could occur during the game for each Force Fact above.