


**Textbook**

## 2 Force and Motion


**How can we change the motion of an object?**

**1 A ball game**  
Look at the pictures below. Talk about how the ball moves.


A. The player starts kicking the ball.




B. The player kicks the rolling ball towards the goal.



C. The goalkeeper blocks the ball.



D. The goalkeeper catches the ball.



**Note**  
Force can move or stop an object. It can also change the \_\_\_\_\_ of an object.

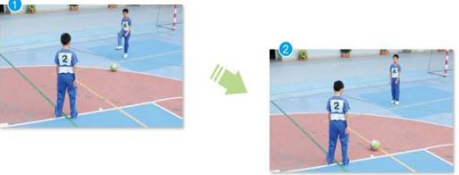
9 of 31 Unit 1 Technology and Daily Life

**2 Passing the ball**  
The goalkeeper passes the ball to player number 3. Player number 3 then passes the ball to player number 4. Has the direction of movement of the ball changed?



**Note**  
Force can change the \_\_\_\_\_ of movement of an object.

**3 Friction**  
Player number 4 kicks the ball. Player number 2 fails to catch it and the ball stops rolling eventually. Why?



**Note**  
Friction is a force which slows down / speeds up or stops a moving object.

Unit 1 Technology and Daily Life 9

**What are the uses of friction in daily life?**

**4 Uses of friction**

1. Does the bath mat have a smooth surface? Why?





2. Why are the tyres made to be rough?



