



May the force be with you!

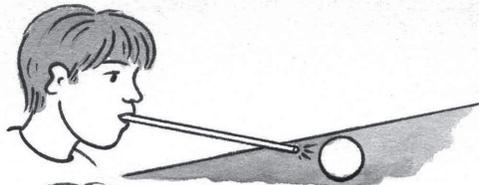
Background knowledge

Forces can make objects at rest begin to move. Forces can also cause moving objects to speed up, slow down, change direction, or stop. Air is a force that pushes against all objects. The pushing force of air is called *air resistance*. A parachute slows down a falling object because of upward-pushing air resistance.

Science activity

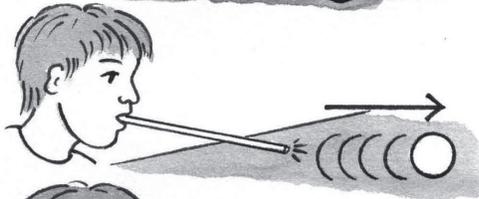
Jason and Eduardo were having fun blowing at a ping-pong ball through straws. Draw a line from each picture to the words on the right that explain what will happen to the ping-pong ball.

The ball is not moving.



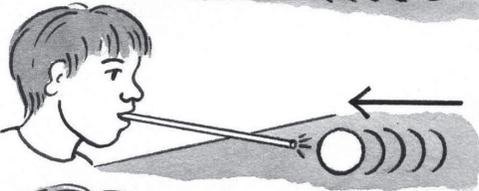
It will speed up.

The ball is rolling away from Jason.



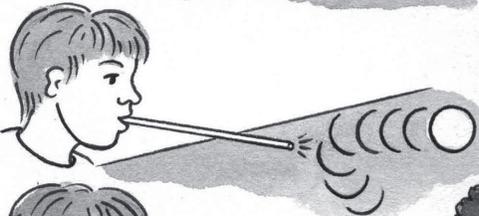
It will slow down.

The ball is rolling toward Jason.



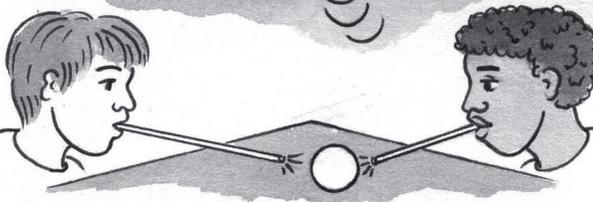
It will start to move.

The ball is rolling across the table.



It will not move.

Eduardo is blowing from the other side, just as hard as Jason.



It will change direction.

Science investigation

Does a large piece of paper or small piece of paper fall first? Design and conduct an experiment to see what effect air resistance has on different-sized pieces of falling paper.



May the force be with you!

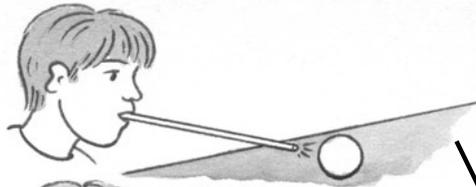
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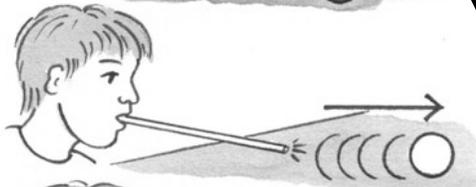
Science activity

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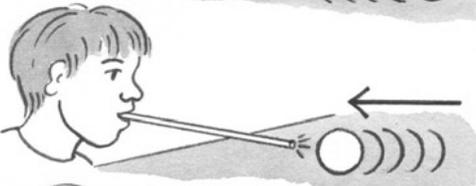
The ball is not moving.



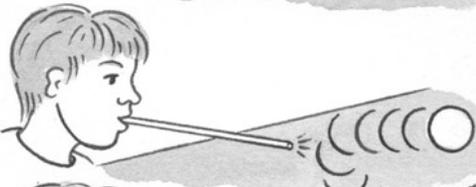
The ball is rolling away from Jason.



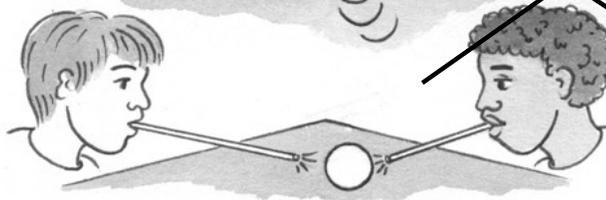
The ball is rolling toward Jason.



The ball is rolling across the table.



Earl is blowing from the other side, just as hard as Jason.



It will speed up.

It will slow down.

It will start to move.

It will not move.

It will change direction.

Science investigation

Larger pieces of paper will provide more air resistance than smaller pieces of paper, and so will fall more slowly. The young investigator should drop paper of different sizes at the same time. The one that falls at a faster rate has less air resistance.