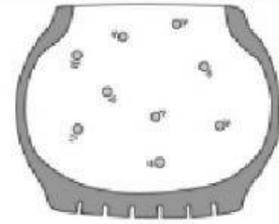


- 1 The diagrams on the right show the particles inside a car tyre at low pressure.

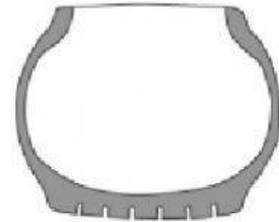
Complete the second drawing to show the particles in a tyre that has been pumped up to a higher pressure.



- 2 Use some of the words in the box below to complete the sentences below about air pressure.

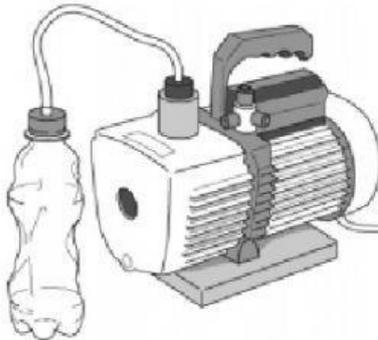
hitting	less	move	more	still
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- a Gas particles _____ freely in all directions.
- b Air pressure is caused by the gas particles _____ surfaces.
- c You can increase air pressure by putting _____ air into a tyre.



- 3 When we turn on the vacuum pump the plastic bottle collapses.

Tick (✓) the correct phrase to complete these sentences.



A vacuum is an space which contains

... only air.

... no particles.

... only a liquid.

... no solids or liquids.

The bottle collapses because

... the particles on the inside stop moving.

... the particles on the outside move faster.

... the air pressure on the outside pushes it in.

... the air pressure on the outside has increased.

How do the air particles inside a car tyre cause pressure on the inside of the tyre? Tick **one** box.

- A The air particles bounce off each other.
- B The air particles are a long way apart.
- C The air particles are moving very fast.
- D The air particles hit the side of the tyre.