

Two students wanted to investigate whether helium balloons stay inflated longer in warmer environments than in cooler ones. The students filled three balloons with the same volume of helium and placed them in separate containers. They changed the temperature in each container and measured the volumes of the balloons over time.

Use the drop-down menus to correctly describe the relationships the students **most likely** observed in the experiment.

As the temperature , the gas particles' thermal energy increases, causing the of the particles to change and the volume of the balloon to .

increases
decreases

motion
size

increase
decrease