

Name: _____ Date: _____

Air Around us

Q1. How do you prove air occupies space?

Ans. _____

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Q1. How do you prove air occupies space?

Ans. The following activity proves that air occupies space.

Take an empty glass bottle. Turn it, upside down. Now, dip the open mouth of the bottle into the bucket filled with water. Water does not enter the bottle. Now tilt the bottle slightly. Now water enters the bottle and we see bubbles coming out of the bottle.

The bottle was not empty at all. In fact, it was filled completely with air even when we turned it upside down. That is why water does not enter the bottle when it is in an inverted position, as there was no space for air to escape. When the bottle was tilted, the air was able to come out in the form of bubbles, and water filled up the empty space that the air has occupied.

This activity shows that air occupies space.

