

Name: _____ Date: _____

Air Around us

Q1. How will you demonstrate that air mainly contains oxygen and nitrogen?

Ans. _____

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Ans. We can show that air mainly contains oxygen and nitrogen from the following experiment.

Fix two small candles of the same size in the middle of two shallow containers. Now, fill the containers with some water. Light the candles and then cover each one of them with an inverted glass. When most of this oxygen is used up by the burning candle, it can no longer burn and blows out. Also, some of the space occupied by the oxygen inside the glass becomes empty and the water rises up to fill or occupy this space. A major part of air is still present in the glass bottle even after the candle blew out. This indicates the presence of some component in the air, which does not support burning. The major part of air (which does not support burning candle) is nitrogen. It takes up nearly four-fifth of the space that air fills.

