

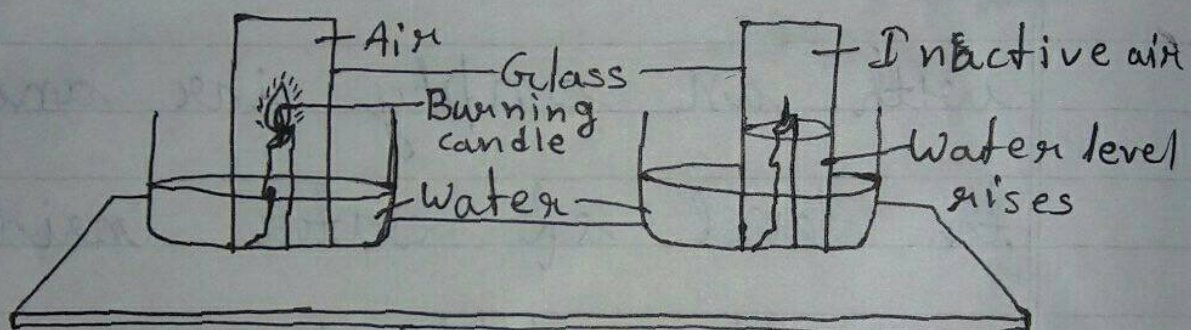
## Activity 5

To show that air contains oxygen (an active part) and nitrogen (an ~~intra~~ inactive part).

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Fix a candle in the middle of a shallow container with some water. Cover the candle with an empty jar and mark the level of water inside the jar. Now lift the jar and light the candle and cover it with the jar again. Observe carefully. Does the candle continue

to burn for sometime and then gets extinguished. The water level rises slightly, i.e. upto  $1/5^{\text{th}}$  part of the jar containing air. This part is active air i.e. oxygen which helps the candle to burn. When it is used up, candle stops burning. The  $4/5^{\text{th}}$  part of air still present in the jar is inactive air that does not support burning and it is nitrogen.



Air contains oxygen and nitrogen