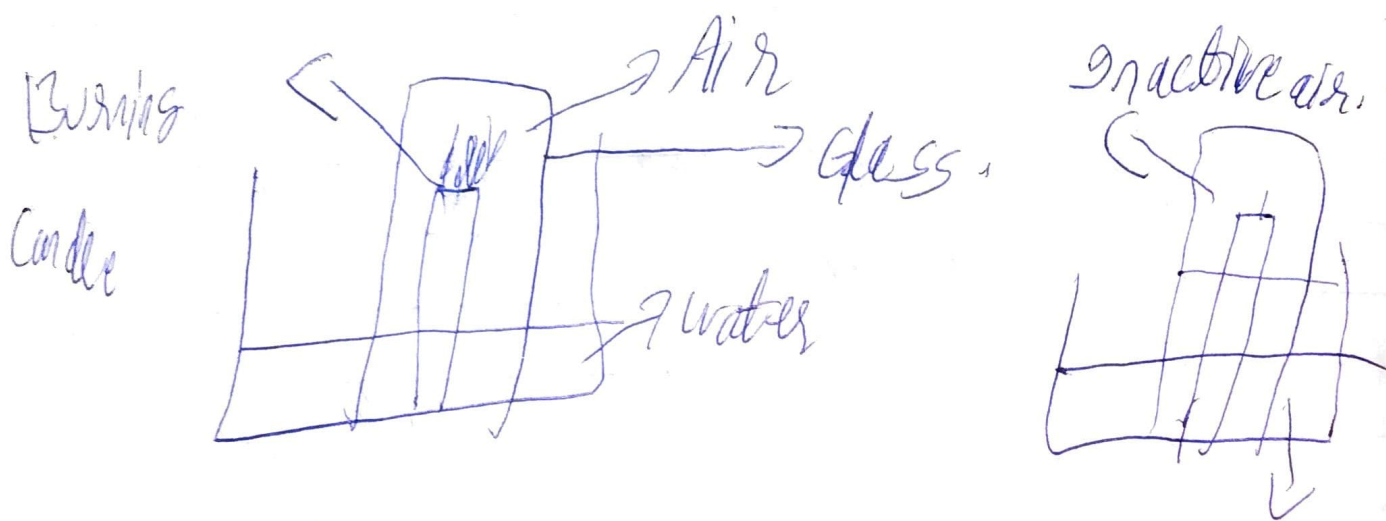


Activity - 5

To show that air contains oxygen
(as a noble gas) and nitrogen (as an inert
gas).

Fix a candle in the middle of a
shallow container. Fill the container with
some water. Cover the candle with
an empty jar and mark the



Air contains oxygen and nitrogen. Water level
level of water inside the jar. Now lift
the jar and light the candle. Put
cover it with the jar again.

Observe carefully, Does the candle continue to burn or goes off? Does the level of water, inside the jar remains same?

You will notice that the candle continues to burn for some time and then gets extinguished. The water level rises slightly, i.e. up to $\frac{1}{5}$ 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 $\frac{4}{5}$ th part of air, still present in the jar is inactive air that does not support burning, and it is nitrogen.

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Activity 6

To show that air contains Carbon Dioxide
(To be demonstrated by the teacher)

Take a ~~test~~ test tube fitted with
a two -- bore rubber cork. Fit a
long bent tube through
the other hole. Take out ~~the cork~~
and pour some fresh prepared lime
water into the test tube. Fit the
cork again. Make sure that the longer
bent tube is immersed in lime
water while the shorter one remains
suspended in air.

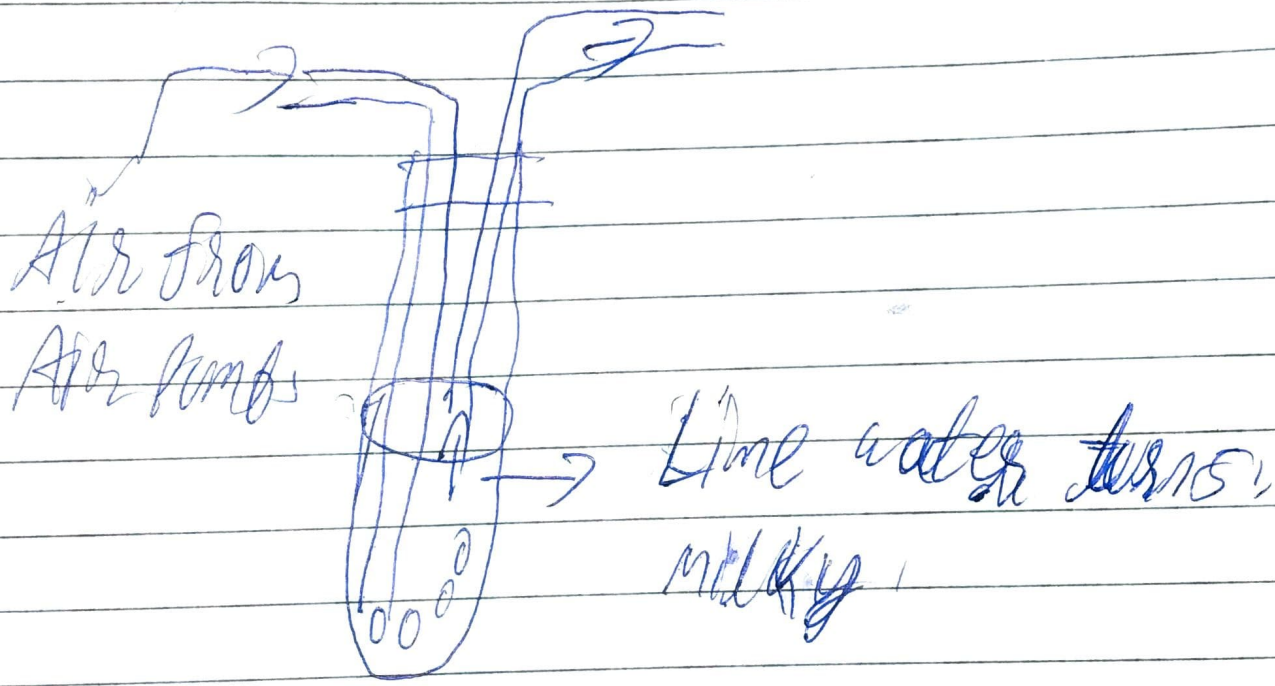
Blow air by an air pump through
the long tube. ~~Now~~ you will
observe that the air blown
through the water turns ~~it~~

muddy.

why does lime water turn milky?

Carbon dioxide that is present in the air reacts with lime water and turns it milky.

This shows that air contains carbon dioxide.



Air contains carbon dioxide