

## Mandatory experiment 7.1

To compare the carbon dioxide levels of inhaled and exhaled air

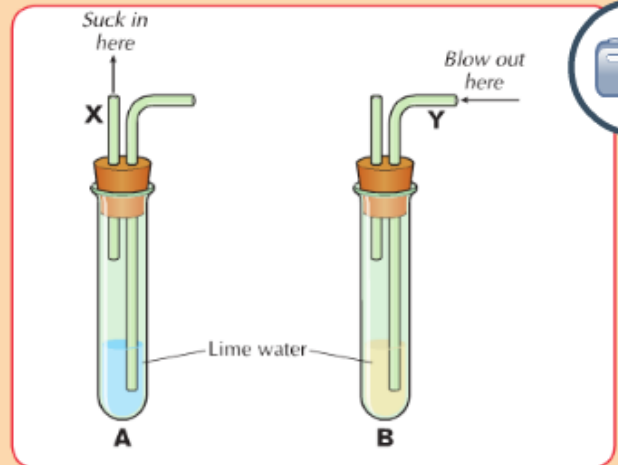


Fig. 7.3 To compare the carbon dioxide levels of inhaled and exhaled air.

Chemical required: limewater

Note: Limewater turns a milky colour when carbon dioxide is passed through it.



### Method

1. Set up the apparatus as in Fig. 7.3.
2. Hold tube A in one hand and tube B in the other.
3. Suck in through X of test-tube A (this represents inhaled air).
4. Hold this breath and then breathe out through Y of test-tube B (this represents exhaled air).
5. Repeat steps 3 and 4 until the limewater in one of the tubes goes milky.
6. Record in which tube the limewater goes milky first.

### Result

The limewater in test-tube B turns milky quicker than the limewater in A.

### Conclusion

The level of carbon dioxide in exhaled air is greater than the level of carbon dioxide in inhaled air.