EXPERIMENTS

to determine the effects of smoking on the lungs



courtesy of:

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EXPERIMENT:

Effect of smoking on lung function

MATERIALS:

- a) candle
- b) matches
- c) tape measure
- d) smoker
- e) cigarette and matches

METHOD:

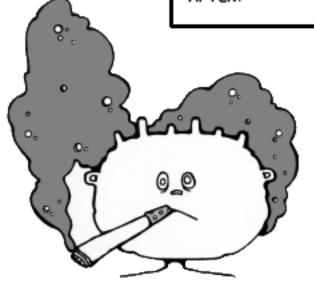
- Set up the candle on a suitable table. Light the candle.
- Have the smoker stand 10 feet away from the candle and try to blow it out.
 If he/she fails, have the smoker move one foot nearer.
 Note the furthest distance which he/she is able to blow out the candle.
- Have the smoker smoke a cigarette (outside).
 As soon as he/she finishes the cigarette, have him/her repeat the test and note the distance.

SMOKER:

Which is the furthest distance he/she is able to blow out the candle?

BEFORE:

AFTER:



RESULTS:

Smoking a cigarette increases the resistance to the flow of air through the lungs so that the air cannot be expelled as forcibly. After smoking, the smoker has to stand closer to the candle to blow it out.