

EXPERIMENTS

to determine the effects of smoking on the lungs



courtesy of:

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EXPERIMENT: TAR-COLLECTOR

PERFORM THIS EXPERIMENT OUTDOORS ONLY!

MATERIALS:

- a) 1 ketchup or mustard squeezable bottle
(empty soap bottle may also be used)
* the tip must be large enough to hold a cigarette
- b) 1 kleenex or a couple of cotton balls
- c) cigarettes (borrow from your parents or someone you are convincing to quit smoking)
- d) matches or a lighter

METHOD:

1. Remove lid from bottle. Rinse the container thoroughly. Place half of a loosely packed kleenex or a couple of cotton balls in the lid of the empty bottle. Screw the lid back on.
2. Place cigarette in the tip of the bottle. You may need to cut a portion of the lid off to ensure that the cigarette fits.
3. Light the cigarette. Simulate inhalation by squeezing the body of the bottle with a slow and regular pumping action. Repeat this until cigarette is almost finished. Repeat action with two or more cigarettes for this will give the best results.
4. Withdraw cotton or kleenex from lid to show the accumulation of tar.

OBSERVATION:

- a) observe the colour of the kleenex.
- b) take note of the smell
- c) observe the collection of the tar inside the lid and on the threads.
- d) examine the colour of the base of the cigarette filter.

