

PART I- TESTING INDOOR PARTICULATE POLLUTION

Purpose- Creating a catching mechanism for particulate waste

Procedure-

Use the provided index cards to make **2 ‘plates’**

In the center of the card, cut a **2 cm X 2 cm** square. Tape over this square so *one side has sticky scotch tape exposed.*

Write your name and information as shown on the board on the sticky side of the card.

Put the two plates in different places around your home. After 5 days, collect your plates (put in a plastic baggie) and use a microscope to view the number of particles on your plate.

Multiply the number of particles found in your 2cm² area to find the projected particulates in 1 square meter.

PART II-

Purpose- Assess the air quality and potential polluters of your home

Procedure-

Use the provided checklist to complete a thorough **inventory of the materials** and/or containers in your home that could leak harmful fumes. Be sure to include the storage location and number of sources of each type.

NAME			DATE	
Check if present	Location stored	Number of sources	GENERAL POLLUTANTS	Notes
			paints	
			solvents, paint thinner	
			wood preservatives	
			aerosol sprays	
			cleansers, disinfectants	
			moth repellants, moth balls	
			air fresheners	
			stored fuel, gas	
			auto supplies, motor oil	
			hobby supplies, glues	
			dry cleaning	
			hair sprays, nail polish	
			FORMALDEHYDE	
			new paneling	
			new flooring	
			new furniture	

			PESTICIDES	
			insecticides	
			herbicides	
			rodenticides	
			fungicides	
			LEAD	
			paint prior to 1978	
			ASBESTOS	
			damaged insulation	
			damaged accoustical tiles	
			BIOLOGICALS	
			mold, mildew on wet surfaces	
			mites in carpets, furniture	
			poorly maintained AC units	
			bedding	
			household pets	
			NITROGEN DIOXIDE	
			unvented fuel heaters	
			unvented gas stoves	
			CARBON MONOXIDE	
			unvented fuel heaters	
			unvented gas stoves	
			leaking chimneys, furnances	
			auto exhaust	
			RADON	
			TOBACCO SMOKE	
			cigarette	
			pipe	
			cigar	

REFLECTION QUESTIONS

- 1.How many total sources of potential Indoor Air Pollution were in your home?
- 2.What were the most common potential Indoor Air Pollution sources in your home?
- 3.Where in your home were most of the potential Indoor Air Pollutants located?

4. Considering the types of potential indoor Air Pollutants in your home, what type of effects might these materials have upon the health of you and your family?

5. What could be done to improve the air quality of your home?

6. Show your calculations for each Index Card below, giving the amount of particulates in 1 m².

PERSONAL 1

PERSONAL 2