

7.5 Indoor Air Pollutants

Name: _____ Class: _____ Date: _____

Total: 9 marks**KEY WORDS** radon 氡 • asbestos 石棉 • air pollution 空气污染 • ozone 臭氧

Objective

Build the skills to answer exam questions on **indoor air pollutants**.**You must be able to:**

- name common indoor pollutants (**radon** 氡, **CO**, VOCs, **asbestos** 石棉)
- state their sources and health effects
- explain why indoor air can be worse than outdoor

1 Worked examples

Study these first. Each one shows the method for a question type used later — follow the steps and you can do the Practice and Exam-style questions yourself.

■ Common indoor pollutants

- **Radon** — radioactive gas from soil/rock seeping into basements; causes lung cancer.
- **Carbon monoxide (CO)** — from faulty heaters/stoves; deadly (blocks oxygen in blood).
- **VOCs** — from paints, furniture, cleaners.
- **Asbestos** — old insulation; fibers cause lung disease.
- **Tobacco smoke** and mold.

■ Why indoor air can be worse

Homes are often **sealed** for energy efficiency, so pollutants **build up** without fresh air. People also spend most time indoors.

■ Prevention

Ventilation, radon testing, CO detectors, and avoiding smoking indoors reduce exposure.

■ A worked link

A tightly sealed home with a gas stove and no ventilation can accumulate CO and VOCs to unhealthy levels — worse than outside.

2 Practice

Now apply the methods above.

2.1 Name one radioactive indoor pollutant. [1]**2.2** What is a source of indoor carbon monoxide? [1]**2.3** Why can indoor air be worse than outdoor air? [1]

3 Exam-style questions

3.1 Radon gas enters homes mainly from [1]

A	B
C	D

A vehicle exhaust**B** soil and rock beneath the building**C** the ozone layer**D** ocean water**3.2** A well-sealed home uses a gas heater with poor ventilation.

(a) Name one dangerous pollutant that could build up. [1]

(b) Explain why sealing a home can worsen indoor air. [2]

3.3 Explain two ways to reduce indoor air pollution. [2]