

Exercise walk-through

7.5

Indoor Air Pollutants

AP Environmental Science

CO₂, particulates, and indoor air

Combustion releases **carbon dioxide** plus **particulate matter**.

Indoors can be worse: **radon**, **carbon monoxide**, **asbestos**. Fix: **ventilation**.



Indoor air: cookstoves and poor ventilation

Exercises 2.1-2.3

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]

Exercises 2.1-2.3

2.1 Name one radioactive indoor pollutant. [1]

2.1

- Radon
-

2.2 What is a source of indoor carbon monoxide? [1]

2.2

- A faulty heater/stove or burning fuel indoors
-

2.3 Why can indoor air be worse than outdoor air? [1]

2.3

- Sealed homes trap pollutants so they build up without fresh air

Exercise 3.1

3.1 Radon gas enters homes mainly from

[1]

☐

A vehicle exhaust

B soil and rock beneath the building

C the ozone layer

D ocean water

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[1]

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A vehicle exhaust

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3.1 B

- soil and rock beneath the building

Exercise 3.2 (a)

3.2 A well-sealed home uses a gas heater with poor ventilation.

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

[1]

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

[1]

(a)

- Carbon monoxide (or VOCs)

Exercise 3.2 (b)

3.2 A well-sealed home uses a gas heater with poor ventilation.

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

[2]

Exercise 3.2 (b)

3.2 A well-sealed home uses a gas heater with poor ventilation.

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

(b)

- Sealing reduces fresh-air exchange, so pollutants accumulate indoors instead of dispersing

Exercise 3.3

3.3 Explain two ways to reduce indoor air pollution.

[2]

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[2]

3.3

- Any two: improve ventilation, install CO detectors, test for radon, avoid smoking/VOC sources indoors