

Solutions

Each answer shows the steps, then the **result**.

2.1

- It is a greenhouse gas that traps heat and drives climate change

2.2

- Tiny solid or liquid particles (soot, dust) in the air

2.3

- PM

3.1 B

- fine PM_{2.5} that lodges deep in the lungs

3.2

(a)

- CO₂
- climate change; PM_{2.5}
- respiratory/heart disease

(b)

- It is fine enough to lodge deep in the lungs and enter the bloodstream, causing serious respiratory and heart problems

3.3

- CO₂ mixes throughout the atmosphere and warms the whole planet (global), while PM settles out near its source, so its worst effects are on local air quality