

Solutions

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

2.1

- NO_x and VOCs

2.2

- Sunlight

2.3

- Ground-level ozone (O_3)

3.1 B

- sunny and warm with heavy traffic

3.2

(a)

- Morning traffic emits NO_x and VOCs; the midday sun drives reactions that build up ozone, so smog peaks in the afternoon

(b)

- It irritates the lungs/eyes and worsens asthma

3.3

- Fewer vehicle emissions mean less NO_x and VOCs available to react in sunlight, so less ozone/smog forms