FOUNDATION

2.10 Chemistry of the Atmosphere: 10-minute Pack

AQA 8462 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Name the gas that plants remove from the atmosphere during photosynthesis.

(Total for Question 1 is 1 mark)

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2 The greenhouse effect keeps Earth warm. State whether greenhouse gases absorb infrared radiation, reflect it, or allow it to pass through.

(Total for Question 2 is 1 mark)

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3 Air contains gases plus tiny particles called aerosols. Give one example of an aerosol released by human activity, and state the activity that releases it.

(Total for Question 3 is 2 marks)

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4 Small particles from vehicle exhausts can cause breathing problems. Give two realistic ways a town could reduce the amount of these particles in its air.

(Total for Question 4 is 2 marks)

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5 A factory reports that its carbon dioxide emissions are 2.4 tonnes per week. How many kilograms of carbon dioxide is this per week? (1 tonne = 1000 kg)

Show your working.

(Total for Question 5 is 2 marks)

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Mark scheme · 2.10 Chemistry of the Atmosphere: 10-minute Pack

Question 1

carbon dioxide or CO_2 cao **B1**

Answer: Carbon dioxide (CO_2).

Question 2

absorb infrared radiation cao **B1**

Answer: They absorb infrared radiation.

Question 3

soot from burning coal, diesel exhaust particles, smoke, or aerosols from spray cans, oe **B1**

a brief description linking it to human activity, oe **B1**

Answer: Soot or smoke from burning fossil fuels; diesel exhaust particles; or spray can aerosols.

Question 4

encourage public transport, cycling and walking to reduce car use, oe **B1**

implement low emission zones, restrict diesel vehicles, or promote electric vehicles, oe **B1**

Answer: Encourage public transport, cycling and walking; introduce low emission zones or restrict diesel vehicles.

Question 5

converts 2.4 x 1000 or shows correct method to change tonnes to kg **M1**

2400 kg cao **A1**

Answer: 2400 kg per week.

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