ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY HIGHER · UNIT 16 · 25 QUESTIONS

Chemistry of the Atmosphere — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button so it can be fixed.

1 **A castle wall is made of stone. What type of rock is limestone?**

- A igneous
- B volcanic
- C metamorphic
- D sedimentary

Understand It with Pulse | Flag a mistake

2 **A forest is cut down. What happens to the carbon stored in the trees?**

- A it is stored forever
- B it is released
- C it disappears
- D it turns to oxygen

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3 **Fishing boats use diesel. What is diesel made from?**

A water, from the sea

B wood, cut from trees

C crude oil

D coal, mined from the ground

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4 **A river flows to the sea. What is this part of?**

A the water cycle

B the carbon cycle

C the rock cycle

D the nitrogen cycle

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5 **A sailing ship floats. What force pushes it up?**

- A friction
- B upthrust
- C gravity
- D air resistance

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6 **A thermometer is placed in hot water. What happens to the liquid inside the thermometer?**

- A it freezes
- B it expands
- C it evaporates
- D it contracts

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7 **Carbon dioxide levels rose from 300 ppm to 440 ppm. What is the increase?**

A 140 ppm

B 160 ppm

C 120 ppm

D 180 ppm

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8 **Nitrogen is 78 percent of the air. How much nitrogen is there in 1000 litres of air?**

A 780 L

B 770 L

C 790 L

D 1560 L

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9 **Why does the Earth have seasons?**

A the Moon's orbit

B the distance from the Sun changing

C the rotation of the Earth

D the tilt of the Earth's axis

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10 **Oxygen is 21 percent of the air. How much oxygen is there in 100 litres of air?**

A 11 L

B 21 L

C 31 L

D 42 L

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11 **Carbon dioxide is 315 parts per million in the air. How many carbon dioxide molecules are there per million air molecules?**

- A 3150
- B 295
- C 315
- D 31

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12 **A factory emits 10 tonnes of carbon dioxide per day. How much does it emit in one week?**

- A 70 tonnes
- B 140 tonnes
- C 80 tonnes
- D 60 tonnes

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13 **What damages the ozone layer?**

A carbon dioxide

B nitrogen

C CFCs

D oxygen

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14 **Carbon dioxide levels rose from 320 ppm to 440 ppm. What is the increase?**

A 140 ppm

B 160 ppm

C 100 ppm

D 120 ppm

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15 **Nitrogen is 78 percent of the air. How much nitrogen is there in 100 litres of air?**

A 78 L

B 156 L

C 68 L

D 88 L

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16 **What is a carbon footprint?**

A the total carbon dioxide a person or product causes

B the carbon in the soil

C the size of a person's shoe

D the amount of carbon stored in a footprint in the soil

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17 **About what percentage of the air is nitrogen?**

- A 21%
- B 1%
- C 0.04%
- D 78%

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18 **A factory emits 50 tonnes of carbon dioxide per day. How much does it emit in one week?**

- A 360 tonnes
- B 700 tonnes
- C 350 tonnes
- D 340 tonnes

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19 **What is the ozone layer?**

A a layer that absorbs infrared

B a layer that absorbs visible light

C a layer that absorbs sound

D a layer that absorbs ultraviolet

Understand It with Pulse | Flag a mistake

20 **Carbon dioxide levels rose from 300 ppm to 400 ppm. What is the increase?**

A 140 ppm

B 120 ppm

C 80 ppm

D 100 ppm

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21 **Which of these is a greenhouse gas?**

A oxygen

B methane

C nitrogen

D argon

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22 **What is the carbon cycle?**

A the movement of carbon between living things and the air

B the movement of oxygen between plants and animals

C the movement of nitrogen between the soil and the air

D the movement of water between the sea, the air, the land and living things

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23 **Oxygen is 21 percent of the air. How much oxygen is there in 1000 litres of air?**

A 200 L

B 220 L

C 420 L

D 210 L

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24 **What is the main greenhouse gas?**

A oxygen gas from the air

B carbon dioxide

C nitrogen gas from the air

D argon gas from the air

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25

Carbon dioxide levels rose from 280 ppm to 380 ppm. What is the increase?

A 100 ppm

B 80 ppm

C 120 ppm

D 140 ppm

Understand It with Pulse

Flag a mistake

ANSWER KEY

1. D
2. B
3. C
4. A
5. B
6. B
7. A
8. A
9. D
10. B
11. C
12. A
13. C
14. D
15. A
16. A
17. D
18. C
19. D
20. D
21. B
22. A
23. D
24. B
25. A

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