ENGLAND GCSE COMBINED SCIENCE EDEXCEL FOUNDATION · UNIT 16 · 25 QUESTIONS

Fuels and Earth Science — 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 forest absorbs carbon dioxide. Which process does this?**

- A combustion of the wood
- B decomposition in the soil
- C photosynthesis
- D respiration in the trees

Understand It with Pulse | Flag a mistake

2 **A river is polluted by fertiliser. What grows too fast in the water?**

- A trees
- B fish
- C algae
- D reeds

Understand It with Pulse | Flag a mistake

3 **A sailing ship crosses the sea. What is the sea mostly made of?**

- A fresh water
- B sand
- C salt water
- D oil

Understand It with Pulse | Flag a mistake

4 **A cup of coffee is hot. How is energy transferred to the air?**

- A by condensation on the cold cup
- B by conduction and convection
- C by radiation only, from the surface
- D by evaporation only, from the top

Understand It with Pulse | Flag a mistake

5 **A chocolate cake is made from flour, sugar and eggs. Which ingredient provides protein?**

- A water
- B flour
- C eggs
- D sugar

Understand It with Pulse | Flag a mistake

6 **A thermometer measures temperature in degrees Celsius. What is the freezing point of water on this scale?**

- A 0
- B 32
- C 10
- D 100

Understand It with Pulse | Flag a mistake

7 **What is the atmosphere?**

A the layer of water around the Earth, the sea

B the layer of ice around the Earth, the poles

C the layer of gases around the Earth

D the layer of rock around the Earth, the crust

Understand It with Pulse | Flag a mistake

8 **What do catalytic converters change nitrogen oxides into?**

A ammonia and water

B carbon dioxide and water

C nitrogen and oxygen

D sulfur dioxide

Understand It with Pulse | Flag a mistake

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

- A 210 L
- B 200 L
- C 420 L
- D 220 L

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

11 **Which gases are greenhouse gases?**

A oxygen and nitrogen in the air

B carbon dioxide and methane

C oxygen and water vapour only

D nitrogen and argon

Understand It with Pulse | Flag a mistake

12 **Carbon dioxide is 420 parts per million in the air. How many carbon dioxide molecules are there per million air molecules?**

A 4200

B 400

C 42

D 420

Understand It with Pulse | Flag a mistake

13 **What happens to sea levels as the Earth warms?**

- A they rise
- B they stay the same
- C they disappear
- D they fall

Understand It with Pulse | Flag a mistake

14 **Carbon dioxide levels rose from 280 ppm to 420 ppm. What is the increase?**

- A 160 ppm
- B 140 ppm
- C 180 ppm
- D 120 ppm

Understand It with Pulse | Flag a mistake

15 **A castle built of limestone is damaged by acid rain. Which gas causes acid rain?**

A nitrogen

B carbon dioxide

C oxygen

D sulfur dioxide

Understand It with Pulse | Flag a mistake

16 **Where did the water in the oceans come from?**

A water vapour from volcanoes

B rivers flowing from the land

C rain from the clouds in the sky

D ice melting at the poles

Understand It with Pulse | Flag a mistake

17 **What is the test for an unsaturated hydrocarbon?**

A limewater turns cloudy white

B a glowing splint relights brightly

C a lighted splint gives a pop

D bromine water turns colourless

Understand It with Pulse | Flag a mistake

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

A 0.04%

B 21%

C 1%

D 78%

Understand It with Pulse | Flag a mistake

19 **What is happening to the polar ice caps?**

A they are growing

B they stay the same size

C they are melting

D they are moving south

Understand It with Pulse | Flag a mistake

20 **A cheese pizza provides energy. Which nutrient provides most energy?**

A protein

B vitamins

C fat

D fibre

Understand It with Pulse | Flag a mistake

21 **What is the general formula of the alkanes?**

- A CnH_2n
- B CnH_2n+_1
- C CnH_2n-_2
- D CnH_2n+_2

Understand It with Pulse | Flag a mistake

22 **What is the difference between addition and condensation polymerisation?**

- A condensation uses only alkenes
- B addition uses only alcohols
- C addition loses a small molecule as well
- D condensation loses a small molecule

Understand It with Pulse | Flag a mistake

23 **An alkane with 10 carbon atoms is cracked. One product is an alkene with 4 carbon atoms. How many carbon atoms does the other product have?**

- **A** 8
- **B** 5
- **C** 7
- **D** 6

Understand It with Pulse | Flag a mistake

24 **Fishing boats float on water. Why do they float?**

- **A** they are made of metal, which floats
- **B** they are heavy and sink slowly
- **C** they have sails that catch the wind
- **D** they displace enough water

Understand It with Pulse | Flag a mistake

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

A 1560 L

B 770 L

C 790 L

D 780 L

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.