

C9 Quick Revision Questions

H = Higher tier only

SS = Separate science only

Question 1 of 50

- What % of our atmosphere is oxygen?

Answer 1

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- 20%

Question 2

.... of 50

- What % of our atmosphere is Carbon Dioxide?

Answer 2

.... of 50

- 0.04%

Question 3

.... of 50

- What % of our atmosphere is Nitrogen?

Answer 3

.... of 50

- 80%

Question 4

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- Write a word equation for respiration

Answer 4

.... of 50

- glucose + oxygen \longrightarrow carbon dioxide + water

Question 5

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- Write a symbol equation for respiration

Answer 5

.... of 50

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Question 6

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- Write a word equation for photosynthesis

Answer 6

.... of 50

- carbon dioxide + water \longrightarrow glucose + oxygen

Question 7

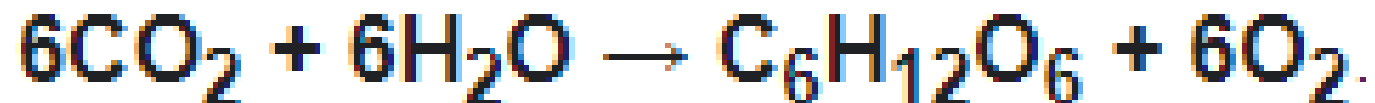
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- Write a symbol equation for photosynthesis

Answer 7

.... of 50

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Question 8

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- Write a word equation for the complete combustion of a fuel

Answer 8

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- fuel + oxygen \longrightarrow carbon dioxide + water

Question 9

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- Which gas did the early atmosphere mainly consist of?

Answer 9

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- Carbon Dioxide

Question 10

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- What gas was produced by volcanoes in the early atmosphere?

Answer 10

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- Nitrogen

Question 11

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- How did the oceans form?
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Answer 11

.... of 50

- The Earth cooled causing water vapour to condense and form oceans

Question 12

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- How did the formation of oceans cause the carbon dioxide levels in the early atmosphere to reduce?

Answer 12

.... of 50

- Carbon dioxide dissolved in the oceans

Question 13

.... of 50

- Why is the composition of our early atmosphere a theory?

Answer 13

.... of 50

- Evidence is limited and based on assumptions that what happened in the past is still happening today

Question 14

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- What was the first organism to produce oxygen 2.7 billion years ago?
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Answer 14

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- Algae

Question 15

.... of 50

- What is the name of the process that increased oxygen levels in our atmosphere?

Answer 15

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- Photosynthesis

Question 16

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- How is carbon trapped underground?

Answer 16

.... of 50

- Coal – plants died, decayed and became compressed over millions of years
- Natural oil and gas – plankton was deposited in muds on the sea floor, covered and compressed over millions of years

Question 17

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- How did the formation of limestone decrease carbon dioxide levels in the early atmosphere?

Answer 17

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- Shells and skeletons of animals are made from calcium carbonate
- When animals dies their shells and skeletons compressed forming limestone

Question 18

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- Name the greenhouse gases

Answer 18

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- Carbon dioxide
- Water vapour
- Methan

Question 19

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- Why do greenhouse gases allow radiation from the sun through?

Answer 19

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- Radiation from the sun is a short wavelength

Question 20

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- Which radiation is absorbed by greenhouse gases?

Answer 21

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- Long wavelength radiation (Infrared) from the Earth

Question 22

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- What are the human activities that increase carbon dioxide levels in our atmosphere?
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Answer 22

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- Combustion of fossil fuels
- Deforestation

Question 23

.... of 50

- What are the human activities that increase methane levels in our atmosphere?

Answer 23

.... of 50

- Animal farming
- Decomposition of rubbish at landfill sites

Question 24

.... of 50

- What are the potential effects of global climate change?

Answer 24

.... of 50

- Sea levels rising (flooding and coastal erosion)
- More frequent or severe storms
- Changes in food producing capacity
- Changes in distribution of wildlife (migration patterns changing)

Question 25

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- How can we reduce our personal carbon footprint?

- use alternative energy supplies such as hydrogen fuel cells
- Energy conservation and energy efficiency in our homes
- Energy efficiency by driving cars that use less fuel (higher mpg)

Question 26

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- How can governments reduce carbon footprint?

Answer 26

.... of 50

- Carbon capture and storage
- Carbon taxes and licenses
- Carbon off-setting
- Carbon neutrality

Question 27

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- What is a carbon footprint?

Answer 27

.... of 50

- The total amount of carbon dioxide and other greenhouse gases emitted over the full life cycle of product, service or event.

Question 28

.... of 50

- Why is it difficult to reduce carbon footprints?

Answer 28

.... of 50

- Rising population – more grazing animals, more rubbish in landfill sites,

Question 29

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- How is the pollutant carbon monoxide produced?

Answer 29

.... of 50

- incomplete combustion

Question 30

.... of 50

- How can carbon monoxide levels be reduced?
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Answer 30

.... of 50

- converted to CO_2 by a catalytic converter in a car

Question 31

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- How is the pollutant sulfur dioxide produced?

Answer 31

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- burning coal or petrol (sulfur is an impurity in the fuel)

Question 32

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- How can the levels of sulfur dioxide be reduced?

Answer 32

.... of 50

- captured using limestone in power stations

Question 33

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- How can we reduce the levels of nitrogen oxides?

Answer 33

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- Convert to N_2 using a catalytic converter in cars

Question 34

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- What environmental problem is caused by sulfur dioxide and nitrogen dioxide?

Answer 34

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- Acid rain

Question 35

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- Why is carbon monoxide a problem?

Answer 35

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- It is a toxic gas

Question 36

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- Why are particulates a problem?

Answer 36

.... of 50

- Global dimming
- Health problems – lung damage