**Human Influences on Climate**

Multiple Choice

1. Recall whether the following statement is true or false.

The carbon cycle has a significant effect on the climate.

1. True
2. False
3. Explain how trees affect atmospheric carbon dioxide levels.
4. Trees produce atmospheric carbon dioxide.
5. Trees absorb atmospheric carbon dioxide.
6. Trees destroy atmospheric carbon dioxide.
7. Trees do not affect atmospheric carbon dioxide.
8. State which of the following is not a danger of deforestation.
9. Replacing trees with livestock increases methane emissions.
10. Cutting down trees removes a natural carbon sink.
11. Burning trees releases stored carbon into the atmosphere.
12. Disturbing the soil releases carbon from the lithosphere.
13. Describe how agriculture affects atmospheric methane levels.
14. Using fertiliser releases large amounts of methane.
15. Wheat produces methane when harvested.
16. Livestock produce methane when digesting grass.
17. Farm equipment exhaust is primarily methane.
18. Describe the connection between agriculture and deforestation.
19. Agriculture leads to deforestation because livestock knock trees over.
20. Deforestation often occurs to prevent forests growing in pastures.
21. Deforestation often occurs to clear space for agriculture.
22. Agriculture leads to deforestation to feed the livestock.
23. Considering that fossil fuels are part of the carbon cycle, recall how human use of fossil fuels influences the carbon cycle.
24. We are extracting them much faster than would naturally occur.
25. Carbon stored in fossil fuels has left the carbon cycle.
26. Using fossil fuels does not influence the carbon cycle.
27. The heat from burning fossil fuels is heating the climate.
28. State roughly how much of the carbon dioxide released by burning fossil fuels is not removed from the atmosphere by natural processes.
29. All of it
30. Half of it
31. None of it
32. Recall whether the following statement is true or false.

Deforestation increases the number of carbon sinks.

1. True
2. False
3. Recall whether the following statement is true or false.

Fossil fuels are part of the carbon cycle.

1. True
2. False
3. Recall whether the following statement is true or false.

Livestock, such as sheep and cows, absorb significant amounts of methane.

1. True
2. False
3. Recall whether the following statement is true or false.

Deforestation and agriculture are often connected.

1. True
2. False
3. Recall whether the following statement is true or false.

Fossil fuels alter the climate due to the heat they produce when burnt.

1. True
2. False
3. Explain how increased fertiliser use can influence the climate.
4. Explain how increased fertiliser use can influence the climate.
5. Making fertiliser unbalances the nitrogen cycle.
6. Plants grow much bigger and use up more water.
7. Plants no longer need to use the nitrogen cycle.
8. Clarify how humans produce nitrogen oxides (NOx).
9. By being obnoxious
10. By burning fossil fuels
11. By making fertiliser
12. By cutting down trees
13. Recall how rainforests got their name.
14. Trees produce water vapour that causes rainfall.
15. They are found in the Rain region of Brazil.
16. They are only visible when it is raining.
17. Trees trap clouds in their branches.
18. Recall how deforestation affects the water cycle.
19. By removing trees which cause local rainfall.
20. By burning trees which contain water.
21. By releasing underwater reservoirs.
22. By removing trees which trap water.
23. State the danger of releasing nitrous oxide (N2O) into the atmosphere.
24. It makes planes fly too fast.
25. It is toxic to breathe.
26. It is an effective greenhouse gas.
27. It is highly explosive.
28. Recall where most of the nitrogen in the nitrogen cycle is found.
29. In the lithosphere, as nitrogen ore.
30. In the hydrosphere, as ammonium.
31. In the atmosphere, as molecular nitrogen.
32. In the biosphere, as a part of all living DNA.
33. Describe how rainforests influence the water cycle.
34. Through their leaves, which catch rainfall.
35. Through photosynthesis, which turns water into oxygen.
36. Through transpiration, which produces water vapour.
37. Through their branches, which disperse clouds.
38. Select all the things that humans use water for.

Select ALL correct options

1. Travel
2. Agriculture
3. Drinking
4. Cleaning
5. Leisure
6. Industry