Name.....class.....No.....

What is CLIMATE CHANGE?



First of all, what is climate? Climate is the weather, such as temperature and rainfall in a region. For example, the temperature in the Amazon is always high and it rains almost every day. In the Antarctic, it is always freezing and there is almost no rain. Those are two types of climate. Climate change describes a change in these conditions, over a long time. NASA scientists tell us that Earth's surface is warming up. That is across the whole planet, not just one or two regions. Most scientists agree that this change is man-made - that is, because of human activity. Burning fossil fuels (coal, oil, gas) releases greenhouse gases, particularly carbon dioxide and methane. Greenhouse gases are like a blanket around Earth - they stop heat from escaping. That is how we get global warming. Cars, factories, power stations, farms, heating our homes – all these everyday things contribute to climate change. It is a problem because as Earth warms up, the ice at the North and South Poles melts, seas rise and land is lost. Forests heat up and then burn. Animal habitats are lost. Some governments are trying to reduce carbon emissions. The Paris Agreement (2015) is an international agreement to limit the amount of greenhouse gases countries are allowed to emit. However, we can all contribute. We must use less energy: switch off the heater; walk, don't ride in the car etc. Vegetation gives off oxygen and soaks up carbon, so if possible, support regreening projects by donating money, or plant some plants yourself, or even plant a tree.

Are the sentences TRUE or FALSE?

1. It rains a lot in the Amazon TRUE FALES
2. 'Climate' describes weather conditions TRUE FALES
3. Earth is cooling down TRUE FALES
4. Most scientists say that global warming is caused by natural events TRUE FALES
5. If Earth warms up, that is fine, no problem TRUE FALES
6. The Paris Agreement gives out advice about holidays in France TRUE FALES
7. Individuals can help with climate change. TRUE FALES
8. *Answer the questions in full sentences:*

11. What does 'climate' mean?

12. Describe the climate where you live

13. What have NASA scientists observed?

14. Are the causes of global warming natural?

15. What do most scientists agree on?

16. How do greenhouse gases act?

17. Why is it a problem if the world heats up?

18. What are governments doing about it?

19. What is the Paris Agreement?

20. What can individuals do to help?

LIVEWORKSHEETS

Regreening is planting trees in areas where trees used to be. It is planting trees and other vegetation in de-forested areas. *The prefix re- means again.*

NOTE: What is the difference between climate change and global warming?

Previously, climate change was referred to as global warming. However, people began to question that term. If it was particularly cold, or if there was a lot of snow, people asked: how can the world be getting warmer??? It was not a good description. What is happening now is that the world is warming up, sure, but also, the weather is more extreme, for example, some countries are getting a lot more rain than usual. Therefore, 'Climate change' is a better description.

VOCABULARY EXERCISE: Choose the right option:

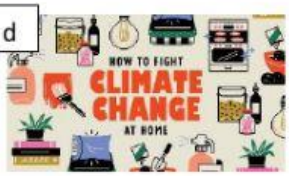
21. **Temperature** means: how hot /how fast / how heavy
22. **The South Pole** is at: the equator /the Arctic /The Antarctic
23. **NASA** stands for: National Association of Shop Administrators / National Aeronautic and Space Administration / Natural Air Safety Association
24. **The surface** is: in the middle /exterior /interior
25. **Fuel** is a form of rain /energy/gas
26. **Release** means: give off /catch /grab
27. **Global** means: worldwide /square /circular
28. **Habita.t** is: a furniture store /animal home /atmosphere
29. **To limit** means: to reduce /to increase /to emit
30. **To emit** is to: take in /limit /give off
31. **Give off** means: to emit /to omit /to spread
32. **Soak up** is to: absorb /evaporate /reduce
33. **Carbon, or Carbon dioxide (CO2)** is: liquid /solid /gas
34. **Regreening** is to: paint your walls green /recycle /plant vegetation and trees

Match the picture with the mesage : What mesasge/points are they making?

a



d



b



e



c



f



34. Image to promote recycling

35. Things you can do to help

36. This image is promoting vegetarianism/veganism

37. Factories emit/release/give off greenhouse gases which are responsible for global warming

38. Save the world! Plant trees. Save the rain forests.

39. The ice caps are melting and polar bears and other animals will have nowhere to live

40. It just doesn't work like that. หมายถึง

LIVEWORKSHEETS