

Name _____ # _____ Date _____

Global Warming Test #1

deforestation
melting poles
permafrost
carbon footprint

oil albedo effect
photosynthesis
burning of fossil fuel
carbon dioxide

cold
clear cutting
carbon budget
oxygen

1. The biggest contributor to global warming is the _____.
2. _____ is present in all algae.
3. The process of green plants making their own food is called _____.
4. The first sign of an unhealthy earth is _____.
5. The ice caps acting like an air conditioner for the earth is called the _____.
6. Rock or soil that has been frozen continuously for two or more years is called _____.
7. _____ is when entire forests are cut down.
8. The second largest contributor to global warming is _____.
9. _____ seawater absorbs more carbon dioxide.
10. Your _____ comes from normal everyday activities like using your computer, riding in a car, etc.
11. The amount of CO₂ the atmosphere can hold before the effects of global warming become unstoppable is called the _____.

12. During photosynthesis green plants take in _____
and give off _____ (13).

Write True or False

_____ 14. Every living thing on earth is part of the natural carbon cycle.

_____ 15. The color blue represents the richness of life on our planet.

_____ 16. Direct sunlight is known as short-wave energy.

17. Why do scientists believe global warming began with the Industrial Revolution?

18. What is the relationship between CO₂ and temperature?

19. Name two greenhouse gases.

1. _____ 2. _____

20. Name the three fossil fuels.

1. _____

2. _____

3. _____

Name _____ # _____ Date _____

Global Warming Test #2

Part I. Write True or False on the line before each statement. Read carefully.

- _____ 1. Water that the ground couldn't absorb, because it came too fast is a flood.
- _____ 2. Hidden energy is called latent energy.
- _____ 3. Global warming causes hurricanes.
- _____ 4. A monsoon is a hurricane in the Pacific Ocean.
- _____ 5. Hurricanes form over warm water.
- _____ 6. Water vapor gets into the air over oceans because the sun heats the ocean surface.
- _____ 7. Sometimes forests never recover after a drought.
- _____ 8. Increased heat throughout the Earth does not increase the length of a heat wave.
- _____ 9. Global warming causes extreme weather to a place because of its position in space.

Part II. Fill in the sentence with the correct word or words.

sea levels	droughts	allergies	diseases
heat wave	global warming	sun's heat	humidity
change color	rise	monsoons	

10. _____ can dry up our land so much that they can change a forest into a desert.
11. A number of consecutive days of unusually high heat is called a _____.
12. All weather begins with the _____.
13. If the Greenland ice sheet melts, it will raise _____ all over the world.
14. Our national parks are suffering because of _____.
15. When carbon dioxide levels are higher _____ are triggered.
16. Since areas above the equator are warming up, many insects can live in new areas spreading _____.
17. When frosts are delayed many leaves will not _____.
18. Sometimes the air can't cool off enough to form rain, causing the _____ to stay in the air, so the air feels hotter.
19. As water warms, it expands causing sea levels to _____.
20. The main source of water for some very dry areas of Africa are the _____.

Name _____ # _____ Date _____

Global Warming Test # 3

Answer the following in complete sentences.

1. Why are more species of animals facing extinction?

2. What does extinction mean?

3. Why is calcium important to coral and shellfish?

4. Describe a symbiotic relationship.

coral reefs
acidic
cloud forest
polar bears

photosynthesize
algae
krill
clear cut

warmer
baleen
emperor penguins
poison

5. The _____ that live under the sea ice are disappearing because there isn't enough room for them to breed.
6. _____ are endangered because they nest on frozen water.
7. _____ are forced to swim longer distances for their prey.
8. The main source of food for the blue whale is _____.
9. Thick bristles that hang from the upper jaw to the lower jaw in whales are called _____.
10. _____ give algae a safe sunny home & algae provide their food.
11. When water temperatures rise, coral cannot _____.
12. This results in a build up of chemicals which _____ algae.
13. A forest where the mountain tops are covered in a foggy mist keeping the area cool is called a _____.
14. Many butterflies are disappearing because they can't survive in _____ temperatures.
15. Because many forests are _____, some butterflies are not able to find shelter.
16. Increased CO₂ in the atmosphere is making the oceans more _____.

Name _____ # _____ Date _____

Global Warming Test # 4

sustainable	alternative fuels	renewable energy
post consumer waste	hybrid	California
phantom power	lumens	ENERGY STAR sticker
	refrigerator	

1. The first state to limit global warming pollution was _____
2. The total amount of light that a bulb is capable of generating is called _____
3. The single biggest energy eating appliance in your home is your _____
4. We should always buy appliances that have an _____
5. Leaving your toaster or hair dryer plugged in when it is not on uses _____
6. Stuff that has already been used is called _____
7. A car with a gasoline engine and battery powered motor is a _____
8. Fuels that provide clean substitutes for oil are _____
9. Energy that won't run out & pollutes less is called _____
10. If something is _____, it will never be depleted.

Write the correct letter in front of the word.

- | | |
|---------------------------|---|
| 11. ____ ethanol | A. uses the wind for power to generate electricity |
| 12. ____ biodiesel | B. using heat from deep down in the earth |
| 13. ____ wind power | C. made from starch crops (corn, barley, wheat) |
| 14. ____ solar power | D. using power from moving water |
| 15. ____ geothermal power | E. made from a mixture of vegetable oil & alcohol |
| 16. ____ hydropower | F. using the sun's energy for power |
| 17. ____ biomass power | G. burning dead trees, yard clippings, woodchips, etc. to produce electricity, heat, & fuel |

Answer the following in complete sentences. Be sure to include all the information.

18. Why do compact florescent bulbs use less energy than incandescent bulbs?

19. Which is better, paper bags or plastic bags? Why? What should we use instead?

20. Why should we try to use wrapping paper less often?

21. What does the initials E.P.A. stand for?

22. Is it possible to do everything we have discussed to stop global warming? So, then what should we do? Explain.

Name _____ # _____ Date _____

Global Warming Test #1

deforestation
melting poles
permafrost
carbon footprint

oil albedo effect
photosynthesis
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carbon dioxide

cold
clear cutting
carbon budget
oxygen

1. The biggest contributor to global warming is the burning of fossil fuels
2. Oil is present in all algae.
3. The process of green plants making their own food is called
photosynthesis.
4. The first sign of an unhealthy earth is melting poles.
5. The ice caps acting like an air conditioner for the earth is called the
albedo effect.
6. Rock or soil that has been frozen continuously for two or more years
is called perma frost.
7. Clear cutting is when entire forests are cut down.
8. The second largest contributor to global warming is deforestation
9. Cold seawater absorbs more carbon dioxide.
10. Your carbon footprint comes from normal everyday
activities like using your computer, riding in a car, etc.
11. The amount of CO₂ the atmosphere can hold before the effects of
global warming become unstoppable is called the carbon budget

12. During photosynthesis green plants take in CO₂
and give off oxygen (13).

Write True or False

T 14. Every living thing on earth is part of the natural carbon cycle.

F 15. The color blue represents the richness of life on our planet.

T 16. Direct sunlight is known as short-wave energy.

17. Why do scientists believe global warming began with the Industrial Revolution?

First time we burned alot of fossil fuels

18. What is the relationship between CO₂ and temperature?

CO₂ goes up, temperature goes up

19. Name two greenhouse gases.

1. CO₂ 2. methane
(nitrous oxide, water vapor)

20. Name the three fossil fuels.

1. Oil
2. Coal
3. Natural GAS

Name _____ # _____ Date _____

Global Warming Test #2

Part I. Write True or False on the line before each statement. Read carefully.

- T 1. Water that the ground couldn't absorb, because it came too fast is a flood.
- T 2. Hidden energy is called latent energy.
- F 3. Global warming causes hurricanes.
- F 4. A monsoon is a hurricane in the Pacific Ocean.
- T 5. Hurricanes form over warm water.
- T 6. Water vapor gets into the air over oceans because the sun heats the ocean surface.
- F 7. Sometimes forests never recover after a drought.
- F 8. Increased heat throughout the Earth does not increase the length of a heat wave.
- F 9. Global warming causes extreme weather to a place because of its position in space.

Part II. Fill in the sentence with the correct word or words.

sea levels	droughts	allergies	diseases
heat wave	global warming	sun's heat	humidity
change color	rise	monsoons	

10. Droughts can dry up our land so much that they can change a forest into a desert.
11. A number of consecutive days of unusually high heat is called a heatwave.
12. All weather begins with the sun's heat.
13. If the Greenland ice sheet melts, it will raise sea levels all over the world.
14. Our national parks are suffering because of global warming.
15. When carbon dioxide levels are higher allergies are triggered.
16. Since areas above the equator are warming up, many insects can live in new areas spreading diseases.
17. When frosts are delayed many leaves will not change color.
18. Sometimes the air can't cool off enough to form rain, causing the humidity to stay in the air, so the air feels hotter.
19. As water warms, it expands causing sea levels to rise.
20. The main source of water for some very dry areas of Africa are the MONSOONS.

Name _____ # _____ Date _____

Global Warming Test # 3

Answer the following in complete sentences.

1. Why are more species of animals facing extinction?

Because of global warming, animals are threatened because they cannot adapt fast enough to the changes caused by greenhouse gases

2. What does extinction mean?

It means a species no longer exists

3. Why is calcium important to coral and shellfish?

They need calcium to make their hard shells or skeletons

4. Describe a symbiotic relationship.

Both organisms benefit

10 each

coral reefs
acidic
cloud forest
polar bears

photosynthesize
algae
krill
clear cut

warmer
baleen
emperor penguins
poison

5. The algae that live under the sea ice are disappearing because there isn't enough room for them to breed.
6. Emperor Penguins are endangered because they nest on frozen water.
7. Polar Bears are forced to swim longer distances for their prey.
8. The main source of food for the blue whale is krill.
9. Thick bristles that hang from the upper jaw to the lower jaw in whales are called baleen.
10. Coral give algae a safe sunny home & algae provide their food.
11. When water temperatures rise, coral cannot photosynthesize.
12. This results in a build up of chemicals which poison algae.
13. A forest where the mountain tops are covered in a foggy mist keeping the area cool is called a cloud forest.
14. Many butterflies are disappearing because they can't survive in warmer temperatures.
15. Because many forests are clear cut, some butterflies are not able to find shelter.
16. Increased CO₂ in the atmosphere is making the oceans more acidic.

5 each

Name _____ # _____ Date _____

Global Warming Test # 4

sustainable	alternative fuels	renewable energy
post consumer waste	hybrid	California
phantom power	lumens	ENERGY STAR sticker
	refrigerator	

1. The first state to limit global warming pollution was California
2. The total amount of light that a bulb is capable of generating is called lumens
3. The single biggest energy eating appliance in your home is your refrigerator
4. We should always buy appliances that have an ENERGY STAR STICKER
5. Leaving your toaster or hair dryer plugged in when it is not on uses phantom power
6. Stuff that has already been used is called post consumer waste
7. A car with a gasoline engine and battery powered motor is a hybrid
8. Fuels that provide clean substitutes for oil are alternate fuels
9. Energy that won't run out & pollutes less is called renewable energy
10. If something is sustainable, it will never be depleted.

Write the correct letter in front of the word.

11. C ethanol
 12. E biodiesel
 13. A wind power
 14. F solar power
 15. B geothermal power
 16. D hydropower
 17. G biomass power
- A. uses the wind for power to generate electricity
 - B. using heat from deep down in the earth
 - C. made from starch crops (corn, barley, wheat)
 - D. using power from moving water
 - E. made from a mixture of vegetable oil & alcohol
 - F. using the sun's energy for power
 - G. burning dead trees, yard clippings, woodchips, etc. to produce electricity, heat, & fuel

4 points each

Answer the following in complete sentences. Be sure to include all the information.

18. Why do compact florescent bulbs use less energy than incandescent bulbs?

They provide much less heat which is wasted energy.

19. Which is better, paper bags or plastic bags? Why? What should we use instead?

Neither! paper bags use trees
plastic is made from petroleum (oi) a fossil fuel
*Use canvas bags

20. Why should we try to use wrapping paper less often?

It is never made from recyclable material
(post consumer waste)

21. What does the initials E.P.A. stand for?

Environmental Protection Agency

22. Is it possible to do everything we have discussed to stop global warming? So, then what should we do? Explain.

No - but we must all do something (see p 93)

6 points each