

Atmosphere Unit Remediation

Name _____ Date _____ Period _____

In order to remediate you for this unit, you will need to do a few things to help you understand the topics of this unit in order to become proficient on them.

Go to this website: <http://www.uen.org/core/science/sciber/sciber9/index.shtml>

Click on the Atmosphere link in the middle of the page.

Student Signature _____ Date _____

Original Unit Test Score _____%

Utah Sci-ber Text

You Are My Sunshine

1. Describe what can happen to sunlight when it strikes the earth.
2. Looking at the map, how does the energy striking the earth shift from January to April?

The Greenhouse Effect

3. What is a good definition of the atmosphere?
4. How is the earth's atmosphere kind of like a greenhouse? How is it different?
5. What are some of the most common greenhouse gases on Earth?
6. Why is carbon dioxide one of the most important greenhouse gases if it is not even as powerful as many other greenhouse gases?

7. Watch the video at the bottom of the page. Review the summary section and answer the three review questions at the bottom. Check your answers by highlighting the black box below the review questions.

Have Humans Changed the Carbon Cycle?

8. What is the carbon cycle?

9. How have humans influenced the amount of carbon dioxide in the atmosphere during the last 200 years?

10. What is deforestation? How does it affect the carbon cycle?

Air Pollution

11. What is the major cause of outdoor air pollution?

12. Describe three examples of air pollution generated by fossil fuel burning.

13. What is acid rain? How does it affect our environment?

Energy and Latitude

14. Why is the sun's energy not spread evenly over the earth?

15. Why does the equator warm up more than the poles?

16. How does the uneven heating of earth's surface affect the circulation of the atmosphere?

Atmospheric Circulation

17. How does convection in the atmosphere create areas of high and low pressure?
18. What is the Coriolis effect and what causes it?
19. How many wind belts (convection cells) are formed in the northern hemisphere? What are their names and locations?

What Causes Weather?

20. What is an air mass?
21. What determines the characteristics of an air mass?
22. Define a weather front.
23. Diagram and describe the following fronts: warm, cold, and occluded.



Forecasting the Weather

24. List the weather instruments used to measure the following: air pressure, air temperature, humidity, wind speed, and wind direction.

I feel a storm comin'

25. After reading about severe weather on this page, describe how severe weather impacts our society.

In the Ozone

26. What is ozone?

27. Why is ozone good in the stratosphere but bad in the troposphere?

Oh yea...how ya gonna prove it?

28. What is the difference between weather and climate?