

Hydrosphere 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.

First, you will need to read, or have read to you, chapter 4 of the paperback Earth Science book. (You may borrow a hard copy of the book from your teacher, or there is a link to the electronic copy on the science grade page of powerschool and also a link on your science class website.)

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

Click on the Hydrosphere link in the middle of the page. Because you scored lower than proficient on the Hydrosphere Unit Test, you will need to read through the following sections of this online text from the Utah Core for Earth Science and answer the questions in order to try and learn more about the topics of this unit. *When you are done, sign and have your parent / guardian sign below, indicating that you have done the above tasks.* You may then submit this completed paper with the appropriate signatures to supplement your unit test score enough to achieve proficiency level. *You will have one week from the time you took the unit test to finish this remediation assignment.*

Student Signature _____ Date _____

Parent/Guardian Signature _____ Date _____

Teacher Signature _____ Date _____

Original Unit Test Score _____%

Utah Sci-ber Text

Hydrosphere

Dihydrogen monoxide

1. Why is water considered a polar molecule?
2. What is a hydrogen bond?
3. Describe at least four properties of water that are related to its polarity.

4. Answer the review questions at the bottom of the webpage, and check your answers.

Storing Water

5. Using the data table on this page, make a pie chart showing the distribution of Earth's water.

Let the Cycle Begin

6. From where does the energy come to drive water through the water cycle on Earth?

7. Describe three phase changes of water that require the absorption of energy.

Abiotic Factors...say, what are they?

8. Define abiotic factor and list three abiotic factors that are in your area right now.

It's Alive!

9. Define biotic factor and list three biotic factors that are in your area right now.

Changing Ecosystems

10. Define an ecosystem.

11. Give a specific example of how an abiotic factor can change an ecosystem.

12. Give a specific example of how a biotic factor can change an ecosystem.

Water can be dirty!

13. What is a property of water that can allow it to become polluted easily?

14. Give an example of how nature can help clean water.

15. Describe the steps taken in a water treatment plant.

The Living Oceans

16. How did earth's oceans form?

17. From where did Earth's water come?

18. What is the main cause of waves in the ocean?

19. What is the main cause of surface currents in the ocean?

20. What is the main cause of deep ocean currents?

Life in the Ocean

21. How can the location in the ocean determine the types of organisms that live there?

Ocean Energy Flow

22. What causes tides in the ocean?

23. How is convection related to the currents in the ocean?

24. What is upwelling?

25. What is el nino? What causes this to occur?

26. How do the ocean's currents help moderate Earth's temperatures?

27. Answer the questions at the bottom of the page and check your answers.