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Biogeochemical cycles webquest 2 answer key

Use the document link below to complete the Webquest. You can only turn the assignment in on CANVAS. No paper submissions will be accepted! Biogeochemical Cycles Webquest.docx Biogeochemical Cycles Webquest In this webquest you will search for information that will answer questions about the water, carbon/oxygen, nitrogen and phosphorus cycles using the listed websites. Answer all questions in the spaces provided. The easiest way to answer the questions is to take your time! Don't rush through the websites, take your time finding the correct answer. The sites have lots of good information and are interesting, stay on task! Introduction Precipitation, evaporation, and condensation are all terms that you recognize, but what do they really mean? They are all part of the water cycle, which is a complex process that not only gives us water to drink, and food to eat, but also helps our plants grow. Only about 3% of the Earth's water is fresh, and 1% of that water can be used for many human purposes. Why can't we use the other 2% of the fresh water found on the Earth? What about the other 97% of the water found in the world? To find these answers and to discover more, come along on an interactive journey through the water cycle! Website to View: . Questions Name three important needs for water. Evaporation is the process where a liquid changes from its state to a state. Why is evaporated water so clean? Condensation occurs when a is changed into a . Condensation is the opposite of . What is an aquifer? What draws water back to the Earth? The small droplets of water in clouds form larger droplets and precipitation occurs. Using the terms "evaporation", "condensation", "transpiration" and "precipitation", explain the water cycle in your own words. What factor is most important in determining whether water is a solid, liquid, or gas? How much water enters the hydrologic cycle? Is the amount of water on Earth always changing or is it a constant amount? Explain surface runoff and what it includes. Introduction Carbon is an element that is found in all organisms, fossil fuels, soil, the ocean, and the atmosphere. We take part in the carbon cycle by breathing CO2 into the air; autotrophs participate by removing atmospheric CO2 for use in building leaves, stems and other organs through the process of photosynthesis. As we burn more and more fossil fuels, such as oil and coal, we release large amounts of carbon dioxide into the atmosphere- more than can be removed by oceans and photosynthetic organisms. Within the atmosphere, this extra CO2 traps heat. As more CO2 accumulates, the Earth becomes warmer through a process known as the greenhouse effect. Websites to view Questions What are macronutrients? Micronutrients? What is the role of primary producers, secondary producers & decomposers in the carbon cycle? How does carbon enter the biotic part of the ecosystem? Why do plants and other photosynthetic organisms need CO2 from the atmosphere? How can carbon move from "land" to bodies of water? Describe the way human impact has led to increased levels of CO2 in the atmosphere. What is the greenhouse effect? What are the effects of global warming? How much carbon is stored in the atmosphere as CO2? What is detritus? How can human use of fossil fuels be detrimental to the environment? Describe one of the many paths a carbon molecule can take through the carbon cycle. True or False: Plants both absorb CO2 from the atmosphere and release it into the atmosphere How does carbon get into the oceans? Introduction The nitrogen cycle represents one of the most important nutrient cycles found in terrestrial ecosystems. Nitrogen is used by living organisms to produce a number of complex organic molecules like amino acids, proteins, and nucleic acids. The majority of nitrogen is found in the atmosphere, where it exists as a gas (mainly N2). Other major reserves of nitrogen include organic matter in soil and the oceans. Despite its large quantity in the atmosphere, nitrogen is often the most limiting nutrient for plant growth. This problem occurs because most plants can only take up nitrogen in two solid forms: ammonium ion (NH4+) and the ion nitrate (NO3-). Specialized bacteria "fix" nitrogen, converting it to a form that can be used by organisms. By fixing nitrogen, these bacteria are a critical link between atmospheric nitrogen and life on Earth. Websites to view Complete the following animation: Questions What percent of nitrogen is in the air? How is nitrogen important essential to life? Why are nitrogen-fixing bacteria contributions to the nitrogen cycle so important? Nitrogen gas makes up of the air we breathe. Nitrogen converts to for organisms to use. Another useable form of nitrogen, NH4+ can be converted to by for organisms to use. Plants use both and to incorporate nitrogen into DNA, protein, and other molecules. Explain how animals get their needed amounts of nitrogen. Explain how nitrogen cycles through the land and ocean ecosystems. Once in plants and animals, explain how does nitrogen return to the atmosphere? What is denitrification? What is the human impact on the nitrogen cycle (give at least 3)? What type of organism do you notice is essential in every stop of the nitrogen cycle? What happens to nitrogen when organisms die? Introduction Why is phosphorus an important biological molecule? How does phosphorus initially enter the cycle? What do plants do with it? How do herbivores get it? How do carnivores get it? How do herbivores and carnivores return phosphorus to the cycle? Why do living things need phosphorus? What happens to phosphorus that erodes from rock and soil? What happens to the phosphates when plants and animals die? What happens to the phosphorus that is carried by runoff to the oceans? How are phosphates incorporated into the organic molecules in aquatic plants and animals? What is different about the phosphorus cycle as compared to the water, carbon and nitrogen cycles? Example: dental hygienist www.masd.k12.wi.us Name: Biogeochemical Cycles Webquest. In this webquest you will search for information that will answer questions about the water, carbon/oxygen, nitrogen ... Webquest, Nitrogen www.piketon.k12.oh.us Waves Webquest Name: ___ Period: ___ For the purpose of this webquest waves are defined as a repeating disturbance that travels ... Waves in a body of water can be demonstrated by dropping a marble into a bowl of water. The rock causes waves. Answer the following questions to learn more about waves ... Webquest, Waves, Waves webquest www.murrieta.k12.ca.us Versailles WebQuest Name Per. You will use the Versailles Web Site to explore an Absolute Monarch, Louis XIV, the "Sun King." Go to Webquest, Versailles, Versailles webquest www.caryinstitute.org 1 Name ___ Date ___ Nitrogen Cycle Webquest Log on to the internet and navigate to the following web site: www.windows.ucar.edu/tour/link=earth/Life/biogeochem.html Webquest, Cycle, Nitrogen, Nitrogen cycle webquest reynoldsworldhistory.weebly.com Napoleon Webquest Directions: Use the given websites to answer the following questions. Answer the questions on your own paper. The Little Corsican Webquest, Napoleon, Napoleon webquest www.forsyth.k12.ga.us Internet Scavenger Hunt WebQuest Answer Key Directions: Use the provided links to answer the questions! Click Here to Answer Questions #1-5! 1. Continental Congress wrote the Articles of Confederation during the Revolutionary War. 2. Why was the Articles of Confederation written? To give the colonies a sense of a unified government 3. Webquest, County, School, Revolutionary, Scavenger, Hunt, Forsyth, Revolutionary war, Forsyth county schools, Hunt webquest, Scavenger hunt webquest missimpson.com www.missimpson.com Heat Transfer Webquest This website is designed to help you gain a better understanding of the process of heat transfer. You need to complete the series of activities outlined below and answer any questions in your Webquest, Heat, Transfer, Heat transfer webquest www.uciimtorino.it 1 WEBQUEST PER USARE IL COMPUTER IN CLASSE di Corrado Marchi, Consigliere regionale dell'UCIIM Lombardia - Docente e formatore L e nuove tecnologie si sono sempre più diffuse nella scuola e in un prossimo futuro non si potrà pensare a un programma Webquest schoolwires.henry.k12.ga.us Heat and Temperature Webquest Introduction: Heat is created in different forms. Exploring the production of heat ... On the right side, under the "green" box labeled "simulations" click on the Kinetic energy and temperature link. Read the text, operate the animations, and answer the questions ... Heat is always transferred from a warm ... Webquest, Heat, Temperatures, Energy, Heat and temperature webquest www.mlbgsd.k12.pa.us Biogeochemical Cycles WebQuest ... Your goal is to gain a better understanding of the phosphorus cycle. Background: In biogeochemical cycles (including carbon, water nitrogen and phosphorus cycles), elements are transported between the atmosphere, biosphere (living things), hydrosphere (water), ... Webquest, Cycle, Directions, Nitrogen, Biogeochemical, Biogeochemical cycles webquest directions www.stafford.k12.ct.us 7. Look at the picture below of a monkey's paw. Suppose that it was offered to you, and you were told that it would grant you three wishes, but that you should "be careful what you wish for". Would you take it? Why or why not? 8. Click on the link below to read the ... 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People by the Euphrates River begin to irrigate crops. (jug, about 3000 B.C.) 4000 B.C. A dry period begins in ... Webquest, Ancient, Mesopotamia, Ancient mesopotamia www.wlww.k12.or.us 3.5. What is the process of transpiration? 6. What is the process of condensation? 7. How do clouds become precipitation? 8. What does precipitation become a part of after it falls? Webquest, Cycle, Nutrient, Webquest nutrient cycles schoolwires.henry.k12.ga.us Click on The Carbon Cycle 12. Draw the cycle here! Click on the Nitrogen Cycle 13. How much of earth's air is made of Nitrogen? 14. What is Nitrogen converted to in order to be useful to plants? 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