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Water cycle questions worksheet answer key 7242

1. Water Cycle Sponge 1 (Day 2) Student name _____ Evaporation Teacher _____ 1. Which of these models show the process of freezing?. Circle the correct letter. A. B. 2. In order for this process (freezing) to take place, heat: a. must be added b. must be taken away. 3. Which of these models show the process of boiling (fast evaporation)? Circle the correct letter. A. B. 4. In order for this process (boiling) to take place, heat: a. must be added b. must be taken away 5. Alcohol rubbed on your arm would quickly evaporate. The evaporating alcohol causes your arm to feel cool because enough heat was taken from _____ to cause evaporation. a. the air b. the classroom lights c. the sun d. your arm 6. The strong smell of alcohol in a room tells you that : a. the room is very hot. b. alcohol molecules are heavier than other molecules in the air. c. alcohol molecules are in the bottle but not in the air 4. there are alcohol r molecules in the air making alcohol vapor 2. Sponge 2 (Day 3) Condensation 1. What causes matter to change from one state to another, for example from liquid water to ice or liquid water to water vapor? a. Adding heat b. Taking away heat (cooling) c. Both a. and b. d. strong gravity 2. In the frozen bottle activity, the teacher filled the bottles with colored water and then froze the water. When you observed these bottles, the water that formed on the outside of the bottle _____ (was or was not) _____ the same color as the water in the bottle because A. the colored water moved through the plastic to the outside of the bottle B the clear water was formed from water molecules in the air around the bottle. 3. This model shows particles (molecules) packed closely together and staying in one position while vibrating. This model would represent which state of matter? a. ether b. solid c. liquid d. gas 4. Observe these drawings of molecules in the three states of matter, then fill in the blanks and match the terms with definitions. A B C LIQUID Model A shows molecules in a _____. SOLID Model B shows molecules in a _____. Model C shows molecules in a _____. GAS Match Gas . Molecules fairly close together and gliding over and under one another while vibrating. Liquid Molecules very close together and vibrating Solid Molecules far apart and moving fast, bumping into one another and into the sides of the container, but still vibrating. 3. Sponge 3 (Day 4) The water cycle 1. Draw lines connecting the following definitions and terms. Evaporation The water that seeps into the ground and becomes ground water. Condensation When a liquid changes to a gas Surface Runoff The water that runs off into streams, then to lakes and oceans. Underground Runoff When water vapor changes into a liquid. 2. Draw lines showing which description best tells how molecules behave in the three states of matter, solid, liquid and gas. State of matter description of molecule movement Solid Molecules rapidly slipping over and under each other but still touching each other and vibrating. Liquid Molecules packed closely together and vibrating in place Gas Molecules moving very fast, zinging in straight lines, bumping into each other and into the walls but still vibrating. Sponge 4 (Day 5) The Water Cycle 1. In this model of the water cycle, what do the shaped objects in the top cup represent? a. melted ice b. condensed water vapor c. water droplets d. b and c Salt Water 2.. In this model of the water cycle, what color should the shaped objects be? a. clear warm surface b. tan c. blue d. blue-green 3.. In this model of the water cycle, what would the shaped objects taste like? a. milk b. salt water c. sugar water d. plain water 4. The droplets on the inside of the top cup formed because the water in the bottom cup changed WWATER VAPOR CONDENSED into _____, rose and then _____ on the top cup. 4. Sponge 5 (Day 6) The Water Cycle 1. In this drawing of a tea kettle of boiling salt water, what is the cloud looking area coming out of the spout? a. water vapor b. salt water c. droplets of water d. smoke 2. Use the word bank below to fill in the blanks on this drawing of a water cycle. CONDENSATION PRECIPITATION CONDENSATION Transpiration SURFACE RUNOFF EVAPORATION UNDERGROUND RUNOFF OCEAN Word Bank • Precipitation • Condensation • Surface runoff • Evaporation • Ocean • Underground runoff • Transpiration • Condensation 3. The energy source that heats the Earth is the same energy source that powers the water cycle. What is the energy source that provides the heat to evaporate water in the water cycle? a. Thermonuclear power b. Wind power c. Coal powered turbines d. The Sun 5. Sponge 6 (Day 7) The Water Cycle 1. Based on the demonstration you had in class, which of these drawings correctly shows how the home made balance of up-side-down paper bags looked after your teacher placed a burning candle under one bag. a. b. c. d. 2.. This demonstration shows that, even though the bags were the same size and had the same amount of air in them, heating the air caused a change in the balance. The lesson in this demonstration is that: a. Warm air is heavier than cold air. b. cold air is heavier than warm air. 6. burning rope 3. In the convection video, the making smoke heated air (above the candle) rose, Warmed air and cooler air rushed in to replace it, Cool air causing air movement (like wind) within the box from the cool area to the warm area Why did the air go up in the left chimney? a. Because warm air is lighter. b. Because cold air is heavier c. Because cold air rushes in below the warm air and pushes the it up. d. All of the above Direction of air movement 4. In the diagram below, the air on the left is rising. What is the source of energy that is warming the air? a. friction b. the sun c. the wind d. the tides. 5. In the diagram below, the air on the left is rising and the air on the right is cooler. How would the wind that resulted affect the runner? c. tail wind (blowing on the runner's back, pushing him down the hill) Cooled air d. head wind (blowing on the runner's face, slowing him down) Warmed air 7. Sponge 7 (Day 8) Weather 1. From the convection video we learned that the temperature of the air (warm or cold) determines whether it will be heavier or lighter. Select the correct, answer from the list below: a. Warmer air rises and cooler air sinks b. Warmer air sinks and cooler air rises. c. Temperature does not causes air to rise or fall. d. The gravity of the Moon causes warm air to rise. 2. Label the blanks in the drawing below as warm air and cool air. Warm Front WARM _____ Air COOL _____ Air 3. What kind of weather would one expect with warm front passage? a. Thunderstorms and lightning, perhaps tornadoes b. Constant, steady rain, usually for more than one day. Cold Front Warm Rising Air Cold Advancing Air 4.. What kind of weather would one expect with cold front passage? a. Thunderstorms and lightning, perhaps tornadoes b. Constant, steady rain, usually for more than one day. 8. Sponge 8 (Day 1 next unit) Comparing Moon and Earth 1. The Earth and Moon are alike in some ways. Select the answer below that shows one way that the Earth and Moon are different. a. Shape (Sphere) b. Composition (rock) c. Atmosphere (Nitrogen, oxygen, carbon dioxide d. Does not give off its own light, only reflects light 2 The Earth and Moon are different in some ways. Select the answer below that shows one way that the Earth and Moon are alike.. a. Size b. Movement (rotates and revolves around another body) c. Water d. Temperature suitable for plants and animals FotoRieth/Pixabay The water cycle is important because water sustains all life on Earth. Through a series of evaporation, transpiration, condensation, precipitation, infiltration, runoff, and other smaller processes, the water cycle keeps the Earth's water clean, distributes the water across the planet's surface, maintains aquatic ecosystems, and aids in the process of plant growth. The water cycle not only keeps all living things alive, but it's become an important tool for the modern human race.What Is the Water Cycle? Around 75 percent of the Earth is covered in water in some form, whether it's the saltwater in the ocean, the fog on your street, or the ice in a glacier. No matter its current form or where it's located, there is always roughly the same amount of water available on the planet. The water cycle is the continuous process of how that water moves across the Earth and through the atmosphere, connecting it all together. The process is made up of six major steps and, while it may change slightly from time to time, it never ends or begins. The water cycle may also be referred to as the hydrologic cycle. Cleaning the Water During the evaporation process, heat from the sun forces water to evaporate into the atmosphere. As it turns to a gas or water vapor and moves through the air, impurities and even salt from the oceans are left behind through distillation, but that's not the only way the water cycle purifies water: Water that falls back to the surface of the Earth may become purified through crystallization or ice formations; aeration or the way water trickles over rocks; dilution; oxidation; filtration as water moves through sand; or sedimentation in slow-moving streams and rivers. Distribution of Water When water falls back to the Earth through precipitation, it is typically distributed in four specific ways. First, all plants on the planet soak it up. Next, some of it infiltrates the soil, and some of it runs off back into the ocean, rivers, and other bodies of water. Finally, some of it returns immediately back to the atmosphere through evaporation. The main processes of the water cycle, evaporation, and precipitation, happen constantly across the globe. Without the water cycle, water would pool in places where gravity is the lowest, leaving many parts of the planet without water. Maintaining Aquatic Ecosystems While water fuels all ecosystems, aquatic ones are especially sensitive. Land-based ecosystems could potentially last days without water, most marine life would only survive minutes or, in some cases, a few hours, without proper access to water. Hydration for All Life Without the water cycle, all life on Earth would eventually come to an end. At the core, plants can't grow without water, which means there would be no food sources for animals and humans. Beyond food supplies, 60 percent of the human body is made up of water, but it loses it through sweat, breathing, and digestion. If you don't replenish it, your body temperature won't stay regulated, your kidneys won't function properly, your brain may swell, your other organs may shut down, and your blood pressure may drop or climb, all of which will eventually result in death. The Water Cycle and the Human Race While the human race needs the water cycle to survive, it also takes advantage of it for modern conveniences. It's used for cleaning, industrial processes, agriculture, waste disposal, recreation, and creating power. MORE FROM REFERENCE.COM

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