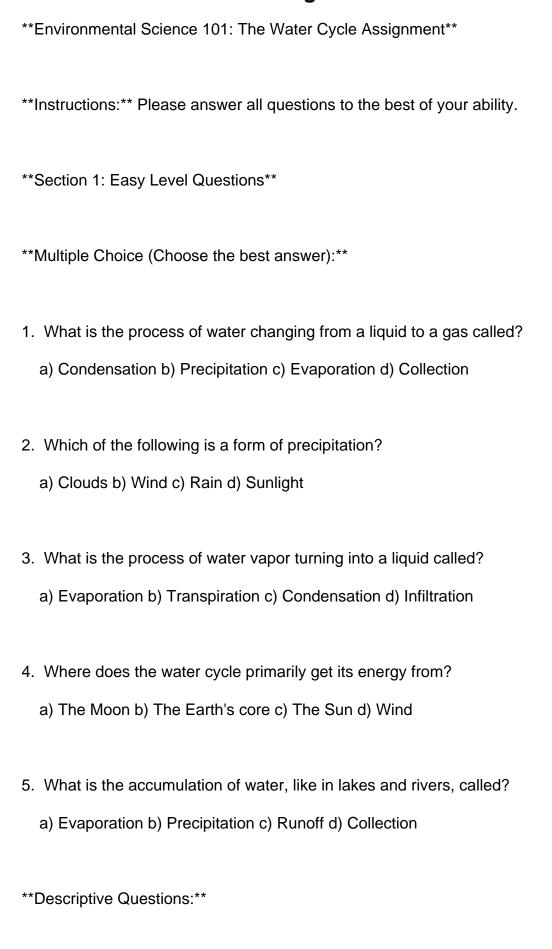
Assignment Worksheet



| 1. | Briefly describe what the water cycle is. |
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| 2. | Name two places where water is stored on Earth. |
| 3. | What is runoff? |
| **(| Section 2: Medium Level Questions** |
| ** | Multiple Choice (Choose the best answer):** |
| 1. | What role does transpiration play in the water cycle? |
| | a) Cooling the Earth b) Releasing water vapor from plants c) Forming clouds d) Causing rain |
| 2. | Which process involves water soaking into the ground? |
| | a) Runoff b) Infiltration c) Evaporation d) Condensation |
| 3. | What is the primary difference between evaporation and transpiration? |
| | a) Evaporation only happens at night b) Transpiration only happens near oceans c) Evaporation |
| is | from open water, transpiration is from plants d) There is no difference |
| 4. | Which of the following contributes MOST to cloud formation? |
| | a) Gravity b) Solar radiation c) Condensation nuclei d) Wind speed |
| 5. | What type of cloud is most commonly associated with heavy precipitation? |
| | a) Cirrus b) Stratus c) Cumulus d) Cumulonimbus |
| **[| Descriptive Questions:** |
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| 1. Explain the relationship between evaporation and condensation in the water cycle. | | | |
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| 2. Describe how human activities can impact the water cycle. | | | |
| 3. Explain the difference between surface runoff and groundwater flow. | | | |
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| **Section 3: Hard Level Questions** | | | |
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| **Multiple Choice (Choose the best answer):** | | | |
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| 1. How does deforestation affect the water cycle? | | | |
| a) Increases precipitation b) Decreases evapotranspiration c) Increases infiltration d) Decreases | | | |
| runoff | | | |
| | | | |
| 2. What is the term for the total amount of water vapor in the atmosphere? | | | |
| a) Humidity b) Precipitation c) Evaporation d) Condensation | | | |
| | | | |
| 3. What impact does climate change have on the global water cycle? | | | |
| a) Decreases overall precipitation b) Increases overall evaporation c) Intensifies extreme weather | | | |
| events d) Stabilizes water distribution | | | |
| | | | |
| 4. What is the role of condensation nuclei in precipitation formation, and what are some examples | | | |
| of these nuclei? | | | |
| a) Absorbing solar radiation; methane b) Providing a surface for water vapor to condense on; | | | |
| dust, salt c) Accelerating evaporation; carbon dioxide d) Preventing cloud formation; ozone | | | |
| | | | |
| 5. Which of the following feedback loops is associated with melting ice and increased water vapor, | | | |

leading to further warming?

| | a) Negative feedback loop b) Positive feedback loop c) Neutral feedback loop d) Inertial | feedback |
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Descriptive Questions:

- 1. Discuss the effects of urbanization on the water cycle, considering factors like impermeable surfaces and drainage systems.
- 2. Explain how variations in the Earth's tilt and orbit (Milankovitch cycles) can affect long-term patterns in the water cycle.
- 3. Describe how scientists use models to predict future changes in the water cycle, considering the complexities of climate change.