

4 Step Worksheet

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Part 1: Building a Foundation

What is the primary process by which water vapor is formed from liquid water?

Hint: Think about the process that involves heat and change of state.

○ A) Precipitation

- B) Condensation
- C) Evaporation
- O D) Collection

Which of the following are stages of the water cycle? (Select all that apply)

Hint: Consider the processes that involve water movement.

A) Transpiratio

- B) Collection
- C) Photosynthesis
- D) Evaporation

Define the water cycle in your own words.

Hint: Think about the continuous movement of water.

List the four main stages of the water cycle.

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Hint: Think about the processes that involve water changing states.

1. Stage 1		
2. Stage 2	 	
3. Stage 3		
4. Stage 4		

Which stage of the water cycle involves water vapor cooling and changing back into liquid form?

Hint: Consider the process that occurs when temperatures drop.

○ A) Evaporation

O B) Condensation

○ C) Precipitation

OD) Collection

Part 2: comprehension and Application

How does deforestation impact the water cycle? (Select all that apply)

Hint: Think about the effects of removing trees from an ecosystem.

- □ A) Increases transpiration
- B) Reduces transpiration
- C) Increases surface runoff
- D) Enhances water quality

Explain how precipitation contributes to the water cycle.

Hint: Consider the role of precipitation in replenishing water sources.



If a city experiences a sudden increase in rainfall, which part of the water cycle is directly affected?

Hint: Think about the process that involves water falling from the sky.

- A) Evaporation
- O B) Condensation
- C) Precipitation
- O D) Collection

In what ways can urbanization alter the natural water cycle? (Select all that apply)

Hint: Consider the effects of buildings and roads on water movement.

- □ A) Increases infiltration
- B) Decreases infiltration
- C) Increases surface runoff
- D) Decreases evaporation

Describe a real-world scenario where human activity has altered the water cycle, and explain the consequences.

Hint: Think about specific examples like agriculture or urban development.

Part 3: Analysis, Evaluation, and Creation

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Which of the following best describes the relationship between evaporation and condensation in the water cycle?

Hint: Consider how these processes interact with each other.

- \bigcirc A) They are unrelated processes.
- B) Evaporation follows condensation.
- C) Condensation follows evaporation.
- D) They occur simultaneously.

Analyze the effects of pollution on the water cycle. Which of the following are potential impacts? (Select all that apply)

Hint: Think about how pollution can affect water quality and processes.

A) Contaminated precipitation

- B) Increased evaporation rates
- C) Reduced water quality
- D) Enhanced cloud formation

Break down the process of how water from the ocean becomes part of a river through the water cycle.

Hint: Consider the steps involved in the water cycle.

Which intervention would most effectively restore balance to a disrupted water cycle in a deforest area?

Hint: Think about actions that can promote reforestation.

○ A) Increasing urban development

○ B) Plantting new trees

- C) Reducing water usage
- D) Enhancing industrial activities



Evaluate the following strategies for mitigating human impact on the water cycle. Which are likely to be effective? (Select all that apply)

Hint: Consider sustainable practices that can help the water cycle.

□ A) Implementating green roofs

B) Expanding agricultural land

C) Creating rain gardens

D) Increasing fossil fuel consumption

Propose a comprehensive plan to address the negative impacts of urbanization on the water cycle, including specific actions and expected outcomes.

Hint: Think about sustainable urban planning and water management.

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