

## **Water Cycle Worksheet**

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Part 1: Building a Foundation
What is the process called when water changes from a liquid to a gas?
Hint: Think about the process that involves heat and vapor.
○ A) Condensation
B) Precipitation
○ C) Evaporation
O) Infiltration
Which of the following are components of the water cycle? (Select all that apply)
Hint: Consider the processes that involve water movement.
A) Transpiratation
B) Photosynthesis
C) Precipitation
☐ D) Evaporation
Explain the role of condensation in the water cycle.
Hint: Think about how water vapor transforms back into liquid.

List two factors that influence the rate of evaporation.



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Hint: Consider environmental conditions that affect evaporation.
1. Factor 1
2. Factor 2
Which factor is most likely to increase the rate of evaporation?
Hint: Think about environmental conditions that promote evaporation.
○ A) Low temperature
○ B) High humidity
<ul><li>C) Strong winds</li><li>D) Dense vegetation</li></ul>
( b) Delise vegetation
Part 2: Understanding and Application
How does urbanization impact the water cycle? (Select all that apply)
Hint: Consider the effects of buildings and roads on water movement.
☐ A) Increases infiltration
☐ B) Increases runoff
C) Reduces evaporation
D) Reduces infiltration
Describe how precipitation contributes to the water cycle and its importance for ecosystems.
Hint: Think about the role of precipitation in replenishing water sources.



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If a region experiences deforestation, which part of the water cycle is most directly affected?
Hint: Consider the role of trees in the water cycle.
○ A) Evaporation
○ B) Transpiratation
○ C) Condensation
O) Precipitation
Which scenarios could lead to increased groundwater flow? (Select all that apply)
Hint: Think about conditions that enhance water infiltration.
☐ A) Heavy rainfall
☐ B) Prolongued drought
C) Increased infiltration
D) Urban development
Imagine a coastal city. How might climate change alter the water cycle in this area?
Hint: Consider the effects of rising sea levels and temperature changes.
Part 3: Analysis, Evaluation, and Creation
Which process directly connects the atmosphere and the biosphere in the water cycle?
Hint: Think about the role of plants in the water cycle.
○ A) Precipitation
○ B) Transpiratation
○ C) Runoff
O) Infiltration



Analyze the relationship between temperature and the water cycle. Which statements are true? (Select all that apply)
Hint: Consider how temperature affects evaporation and precipitation.
A) Higher temperatures increase evaporation rates.
☐ B) Lower temperatures increase condensation rates.
C) Higher temperatures decrease precipitation.
D) Lower temperatures increase runoff.
Analyze how topography influences the distribution of precipitation in a mountainous region.
Hint: Think about how mountains affect weather patterns.
Which of the following actions would most effectively reduce urban runoff?  Hint: Consider actions that enhance water absorption.  A) Increasing impermeable surfaces  B) Plantin more trees  C) Building more roads  D) Reducing green spaces
Evaluate the potential impacts of climate change on the water cycle. Which outcomes are likely? (Select all that apply)
Hint: Consider how climate change affects weather patterns and water availability.
A) Increased frequency of droughts
☐ B) More intense storms
C) Decreased evaporation rates
D) Alterred precipitation patterns

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Propose a sustainable water management strategy for a city facing water scarcity due to climate

change. Include how this strategy would address key components of the water cycle.



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Hint: Think about innovative solutions that integrate water conservation.								