



# Practice Worksheet on Water Cycle

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Subject: Environmental Science

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## Long Answer Questions

1. Explain the process of evaporation in the water cycle and what drives it.
2. Describe the process of condensation in the water cycle. What conditions are necessary for condensation to occur?
3. What is precipitation? Name four different forms of precipitation.
4. Explain the process of water collection and its importance in the water cycle.
5. Define transpiration and explain its role in the water cycle.
6. Describe runoff and how it contributes to the water cycle.
7. What is groundwater and how does it interact with surface water in the water cycle?

8. What is the main driving force of the water cycle? Explain how it affects the different stages.

## Multiple Choice Questions

1. Which process changes liquid water into water vapor?

- a) Melting
- b) Evaporation
- c) Condensation
- d) Precipitation

2. What is the main source of energy for the water cycle?

- a) Plants
- b) Animals
- c) The Sun
- d) Wind

3. Which of these are forms of precipitation?

- a) Rain, snow, sleet, hail
- b) Clouds, fog, mist
- c) Rivers, lakes, oceans
- d) Evaporation, condensation

4. What is the name of the process where water gathers in bodies of water?

- a) Transpiration
- b) Collection
- c) Evaporation
- d) Condensation

5. Where does precipitation come from?

- a) From the ground
- b) From the atmosphere
- c) From plants only
- d) From animals only

6. What process forms clouds?

- a) Melting
- b) Condensation
- c) Evaporation
- d) Runoff

7. Where can water collect as part of the water cycle?

- a) Ocean
- b) Lake
- c) River
- d) All of the above

8. Which living things contribute to the water cycle through transpiration?

- a) Animals
- b) Plants
- c) Rocks
- d) Soil

# Answer Key

## Long Answer Questions - Expected Responses

1. Explain the process of evaporation in the water cycle and what drives it.

Expected Answer: Evaporation is the process where water turns into vapor and rises into the atmosphere. It's fueled by solar energy and is a key part of the water cycle.

2. Describe the process of condensation in the water cycle. What conditions are necessary for condensation to occur?

Expected Answer: Condensation is when water vapor cools down and changes back into liquid water, forming clouds. This happens as the air rises and cools.

3. What is precipitation? Name four different forms of precipitation.

Expected Answer: Precipitation is any form of water that falls from the atmosphere to the Earth's surface. This can be rain, snow, sleet, or hail.

4. Explain the process of water collection and its importance in the water cycle.

Expected Answer: Collection is the process where water from precipitation gathers in rivers, lakes, and oceans, completing the cycle and becoming available for evaporation.

5. Define transpiration and explain its role in the water cycle.

Expected Answer: Transpiration is the process by which plants release water vapor into the atmosphere through their leaves. It's like plants 'sweating'.

6. Describe runoff and how it contributes to the water cycle.

Expected Answer: Runoff is water from precipitation that flows over the land surface, into rivers, streams and eventually into larger bodies of water.

7. What is groundwater and how does it interact with surface water in the water cycle?

Expected Answer: Groundwater is water that is stored underground in soil and rock formations. It slowly moves and feeds into rivers and other water bodies.

8. What is the main driving force of the water cycle? Explain how it affects the different stages.

Expected Answer: The water cycle is driven by the sun's energy. This energy causes evaporation which leads to condensation, precipitation and collection.

## Multiple Choice Questions – Correct Answers

1. Which process changes liquid water into water vapor?

Correct Answer: Evaporation

2. What is the main source of energy for the water cycle?

Correct Answer: The Sun

3. Which of these are forms of precipitation?

Correct Answer: Rain, snow, sleet, hail

4. What is the name of the process where water gathers in bodies of water?

Correct Answer: Collection

5. Where does precipitation come from?

Correct Answer: From the atmosphere

6. What process forms clouds?

Correct Answer: Condensation

7. Where can water collect as part of the water cycle?

Correct Answer: All of the above

8. Which living things contribute to the water cycle through transpiration?

Correct Answer: Plants