

Introduction

This worksheet is designed to assess students' understanding of the water cycle and their ability to apply visual thinking routines to solve problems related to this topic.

The water cycle, also known as the hydrologic cycle, is the continuous process by which water is circulated between the Earth and the atmosphere. It is a vital component of the Earth's system, and its importance cannot be overstated.

Section 1: Short Answer Questions

Please answer the following questions in complete sentences.

1. Define the water cycle and explain its importance in the Earth's system. (5 points)

2. Describe a visual thinking routine that can be used to understand the water cycle and provide an example of how it can be applied. (5 points)

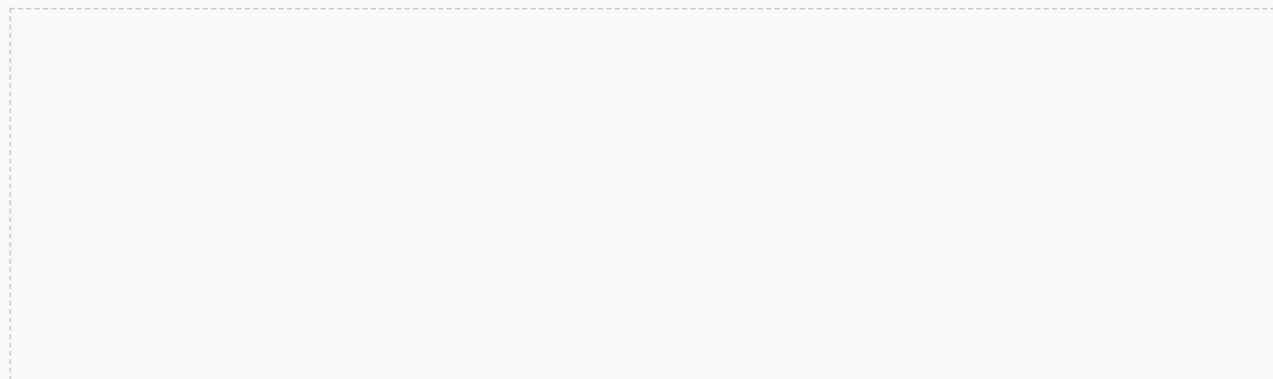
3. Explain how the water cycle is connected to other environmental parameters, such as climate and weather patterns. (10 points)

4. Describe a problem related to the water cycle and explain how visual thinking routines can be used to solve it. (10 points)

Section 2: Essay Question

Please answer the following essay question in complete sentences.

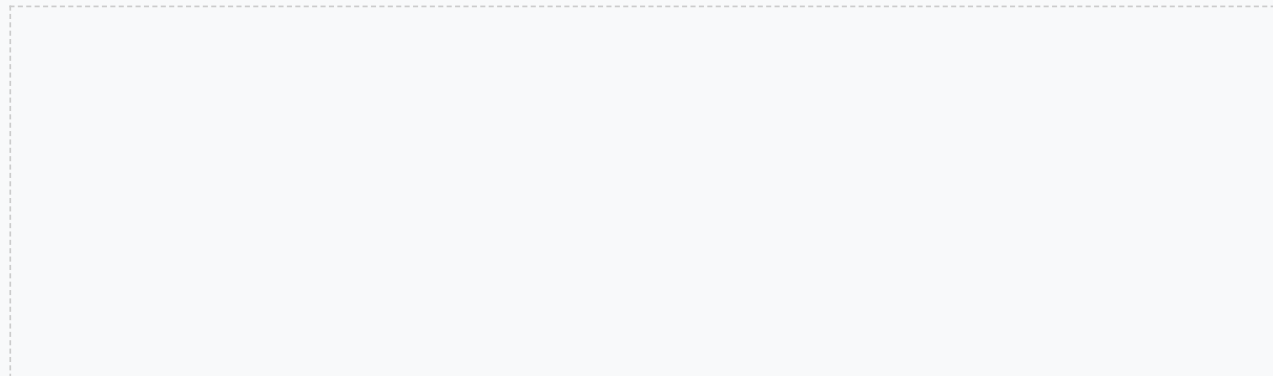
Analyze the relationships between the water cycle and environmental parameters, such as climate, weather patterns, and human activities. Provide examples of how visual thinking routines can be used to understand these relationships and propose solutions to problems that arise from these interactions. (40 points)



Section 3: Project-Based Task

Please complete the following project-based task.

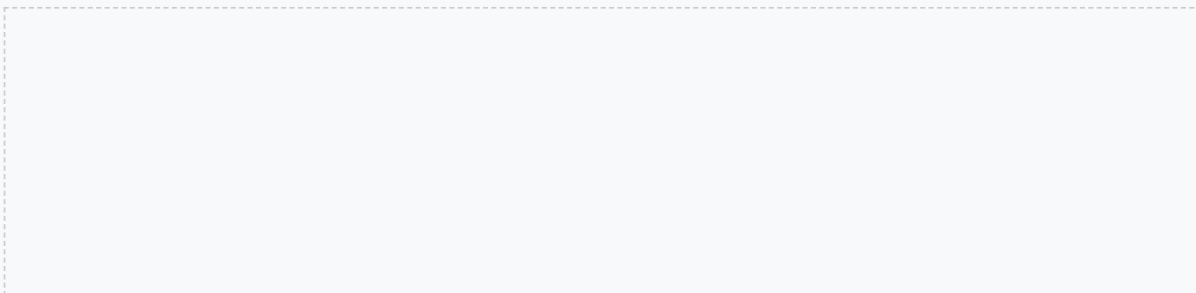
Design a visual thinking routine that can be used to teach the water cycle to students. The routine should include a clear explanation of the water cycle, visual aids, and opportunities for students to apply critical thinking skills. Provide a written explanation of the routine and a visual representation of the design. (30 points)



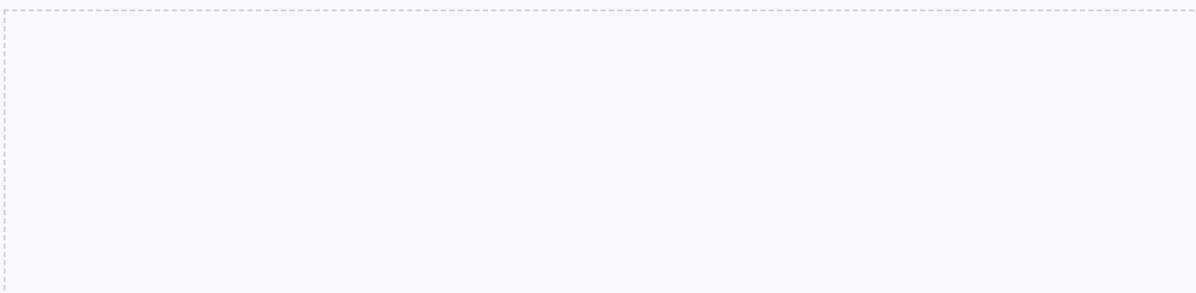
Section 4: Additional Activities

Please complete the following additional activities.

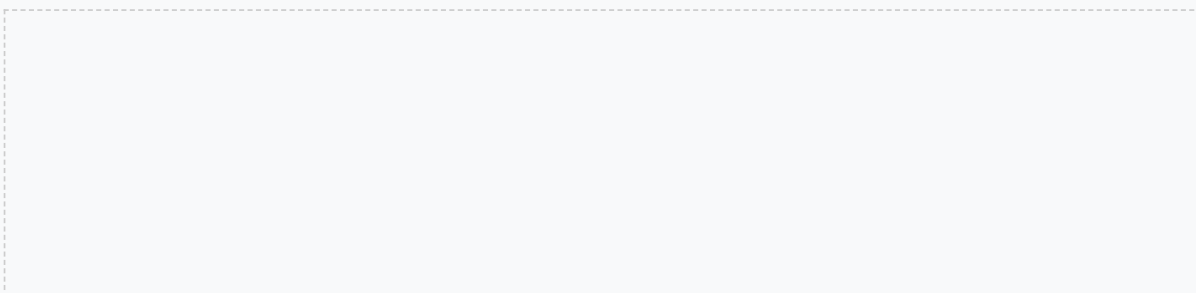
1. Draw a diagram of the water cycle and label its different stages.



2. Create a gallery walk of different visual thinking routines that can be used to understand the water cycle. Write a short description of each routine and explain how it can be used.



3. Create a song or rap that explains the water cycle and its importance in the Earth's system.



Assessment Rubric

The assessment rubric for this worksheet is as follows:

- Short answer questions: 30 points
- Essay question: 40 points
- Project-based task: 30 points
- Additional activities: 20 points

Note

Please note the following:

Please allow 60 minutes to complete this worksheet. Use visual aids and critical thinking skills to support your answers. Ask your teacher for clarification if you need help with any of the questions or activities.

Conclusion

In conclusion, the water cycle is a vital component of the Earth's system, and its importance cannot be overstated.

By completing this worksheet, students will demonstrate their understanding of the water cycle and their ability to apply visual thinking routines to solve problems related to this topic.

