



Introduction to Water Cycle and Project Zero Routines (10 minutes)

Read the following text and answer the questions:

The water cycle, also known as the hydrologic cycle, is the continuous process by which water is circulated between the Earth and the atmosphere. Project Zero routines are a set of procedures used to design and implement sustainable solutions to address challenges. In this activity, we will explore the basics of the water cycle and Project Zero routines.

1. What is the water cycle?

2. What are Project Zero routines?

3. How can Project Zero routines be applied to the water cycle?

Understanding Project Zero Routines (20 minutes)

Group Task:

Read the following text and discuss the 20 Project Zero routines:

- Routine of "water-energy-land"Page 1 of 5
- Routine of "water-soil-vegetation"
- Routine of "water-air-climate"
- Routine of "water-economy-society"
- 16 other Project Zero routines

Routine	Description

Case Study Analysis (25 minutes)

Read the following case study and answer the questions:

A local community is facing a water shortage due to climate change. The community has implemented several Project Zero routines to address the issue. Analyze the case study and discuss the following questions:

1. What are the causes of the water shortage?

2. How have the Project Zero routines been implemented?

3. What are the benefits and challenges of the Project Zero routines?

Designing Project Zero Routines (30 minutes)

Group Task:

Design a Project Zero routine to address a water-related challenge in your community:

1. Identify the challenge

Page 1 of 5

2. Research and analyze the challenge

3. Design a Project Zero routine

[Space for design]

Reflection and Conclusion (10 minutes)

Individual Reflection:

1. What did you learn about the water cycle and Project Zero routines?

2. How can you apply what you learned to real-life situations?

3. What challenges did you face during the activity, and how did you overcome them?

Assessment (15 minutes)

Complete the following assessment questions:

1. What is the main purpose of Project Zero routines?

2. How can Project Zero routines be applied to the water cycle?

3. What are some benefits of using Project Zero routines?

Teacher Notes and Guidance

Notes and guidance for teachers:

Encourage students to work in groups and facilitate discussion. Provide guidance and support as needed.
Encourage students to think critically and creatively when designing their Project Zero routines.

