

le: Breakdown of Lessons in a Unit Unit: The Water Cycle (Grade 4, 10 Lessons) Lesson 1: Introduction to the Water Cycle (Overview) Lesson 2: Evaporation: The Role of the Sun Lesson 3: Condensation and Clouds Lesson 4: Precipitation: Rain, Snow, Sleet Lesson 5: Collection and Water Bodies Lesson 6: Hands-on Experiment: Building a Mini Water Cycle Model Lesson 7: The Water Cycle in Everyday Life Lesson 8: Human Impact on the Water Cycle Lesson 9: Review and Practice with Diagrams Lesson 10: Final Project: Create a Water Cycle Poster / Lesson Planner / LearningCorner.co

By the end of this lesson, the student will have a solid understanding of the water cycle, including its stages: evaporation, condensation, precipitation, and collection. They will also learn how these processes affect our environment and daily lives.

## Materials and Prep

- Paper and pencil for note-taking
- Access to the internet for research (optional)
- Visual aids (drawings or printouts of the water cycle)
- Familiarity with basic science concepts (liquids, gases, temperature)

## Activities

- **Water Cycle Diagram:** Draw a diagram of the water cycle, labeling each stage (evaporation, condensation, precipitation, collection). Use arrows to show the flow of water through the cycle.
- **Sunshine Experiment:** Discuss how the sun helps with evaporation. Create a simple experiment by placing a bowl of water outside on a sunny day and observe how it changes over time.
- **Cloud Watching:** Go outside and look at the clouds. Discuss what types of clouds you see and how they relate to the water cycle. Are they cumulus, stratus, or cirrus clouds?

## Talking Points

- "The water cycle is like nature's way of recycling water. It never stops moving!"
- "Evaporation happens when the sun heats up water, turning it into vapor. Can you think of a time you saw this happen?"
- "When water vapor cools down, it turns back into tiny water droplets, which is called condensation. Have you noticed how dew forms on grass in the morning?"
- "Precipitation is when water falls back to Earth in different forms like rain, snow, or sleet. What's your favorite type of precipitation?"
- "Collection happens when water gathers in rivers, lakes, and oceans. Why do you think this is important for our planet?"
- "The sun is a key player in the water cycle. Without it, there wouldn't be evaporation!"
- "Clouds are made of tiny water droplets. Did you know that a single cloud can weigh over a million pounds?"
- "The water cycle is important for all living things. How does it affect plants and animals?"
- "Humans can impact the water cycle through pollution and climate change. What can we do to protect it?"
- "Let's recap the stages of the water cycle. Can you name them and explain what happens in each?"
- "For our final project, think about how you can creatively represent the water cycle in your poster!"