

Grade: 3rd

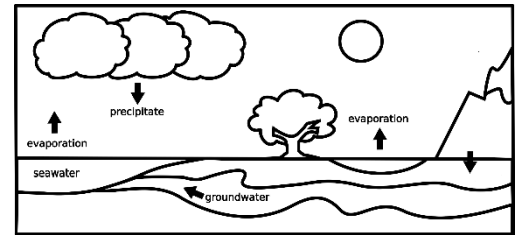
Subject: Science

Group Members:

Host Computer Info:

Water Cycle Model Minecraft Edu

Background: You have been learning about the features of the water cycle. During the water cycle, liquid water is heated and changed to a gas (water vapor) by a process called **evaporation**. The gas (water vapor) is cooled and changed back to a liquid by a process known as **condensation**, or it can form ice. Water falls to the ground as a liquid or a solid through a process called **precipitation**. The energy that drives the water cycle comes from the sun.



Design Challenge: Design and build a model the water cycle. Make sure to represent, label, and explain the parts of the water cycle.

Criteria:

- All parts of the water cycle are **shown and labeled** in your model.
 - evaporation
 - condensation
 - precipitation
- All parts of the water cycle are described/ **explained** using boards, posters, slates, or signs.
 - Explains evaporation
 - Explains condensation
 - Explains precipitation
 - Explains what drives the water cycle
 - Explains how water is collected once falling to earth.
- If time permits, use the camera and portfolio to take pictures and write about your creation.

Design Drawing and Plan for Building Prototype

Test, Evaluate (After Testing the Design), Redesign Plan (Repeat this step as often as necessary.)

Testing: What was tried? What was the result?

Evaluating: Does it meet one or more of the design criteria?

Redesigning: What changes could we make for a design that meets more of the criteria?

Rubric:

Criteria Assessed	No Evidence 0	Attempts to meet criteria shows limited understanding 1	Meets some criteria with room for improvement 2	Meets most criteria with room from improvement 3	Meets all criteria 4
Guided Portfolio					
The problem is restated.					
Students discussed and answered the brainstorming questions.					
Student reflected on the project and evaluated their own work.					
Project					
All parts of the water cycle are evident and labeled. <ul style="list-style-type: none"> • Evaporation • Condensation • Precipitation 					
All parts of the water cycle are described/ explained using boards, posters, slates, or signs.					
Explains evaporation					
Explains condensation					
Explains precipitation					
Explains what drives the water cycle					
Explains how water collects.					
Oral Presentation/Group Work					
The student uses grammatically correct language.					
The student uses clear and specific vocabulary to communicate ideas.					
The student speaks clearly.					
The student uses appropriate volume and pitch.					
The student speaks at an understandable rate.					
The student worked cooperatively with his or her group and was an effective group member.					