

# Water Cycle Design Challenge

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## Background:

Our current unit of study in science is WATER. We have learned the properties of water and the many ways we use water. This week our focus is on the water cycle. I need you to show me what you have learned about the water cycle.

## Challenge:

You will design and create your own triorama illustrating how the water cycle works. You must include the provided labels. Your triorama should also include one moving part or a pop up. You will share your water cycle triorama with the class.

## Criteria:

Your triorama must:

- include one movable part or one pop-up
- include the provided labels:  
**evaporation ♦ condensation ♦ precipitation ♦ run off**
- show how each part of the water cycle works

## Materials:

*You may use only materials listed. You do not need to use all of the materials.*

- heavy square sheet of paper for folding triorama
- scrap box materials
- glue
- paper fasteners

## Tools:

*You may only use the tools listed below..*

- scissors
- ruler
- push pin

**Directions for folding a triorama can be found at:**

[http://www.maasd.ecsd.net/triorama\\_directions.htm](http://www.maasd.ecsd.net/triorama_directions.htm)

<http://www.fifeschools.com/hedden/staff/rwilliams/TrioramaDirections.html>

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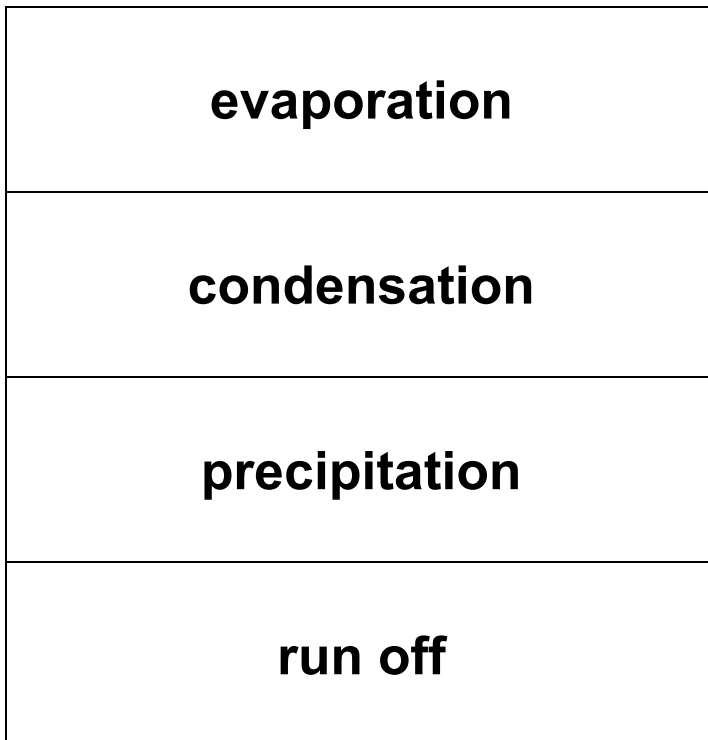
Virginia Standards of Learning (SOL)

♦**Oral Language:** 2.2 Clarify and explain ideas orally, 2.3 Use communication skills to inform.

♦**Science:** 2.3 Properties of water, 3.9 Water cycle.

## Teacher Hints:

- If your school division does NOT include "run off" as part of the water cycle, simply white out that part of the design brief.
- If you have never made a triorama, visit one of the sites provided or Google: "triorama" to find pictorial directions. Make sure to make one to use as an example.
- Having the square paper for building the triorama is helpful when working with younger children.
- Pencils, crayons, and markers are tools. Notice that they are NOT listed as tools that students can use. This will make students think more about their design.
- **Scrap box materials** may include scarp paper of any kind and/or scraps of fabric, ribbons, and other small pieces of clean used or leftover materials. NO new products should be bought for the purpose of filling the scrap box.



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