

Georgia Waters 3-5 Virtual Outreach

Program Description:

- Geography plays an important role in watershed locations and how water flows through them. In Georgia, water travels down the Blue Ridge Mountains all the way to the Atlantic Ocean. Students will observe the flow of water through the state and hypothesize how pollution from north Georgia can make its way into the ocean.

Essential Question

- What paths does the flow of water take through the state of Georgia and how is it influenced by the geography?

Georgia Standards of Excellence:

- **S3L1a.** Ask questions to differentiate between plants, animals, and habitats found within Georgia's geographic regions.
- **S4E3b.** Develop models to illustrate multiple pathways water may take during the water cycle (evaporation, condensation, and precipitation). (Clarification statement: Students should understand that the water cycle does not follow a single pathway.)
- **S5E1a.** Construct an argument supported by scientific evidence to identify surface features (examples could include deltas, sand dunes, mountains, volcanoes) as being caused by constructive and/or destructive processes (examples could include deposition, weathering, erosion, and impact of organisms).

Next Generation Science Standards:

- **2-ESS2-2.** Develop a model to represent the shapes and kinds of land and bodies of water in an area.

What to Know Before

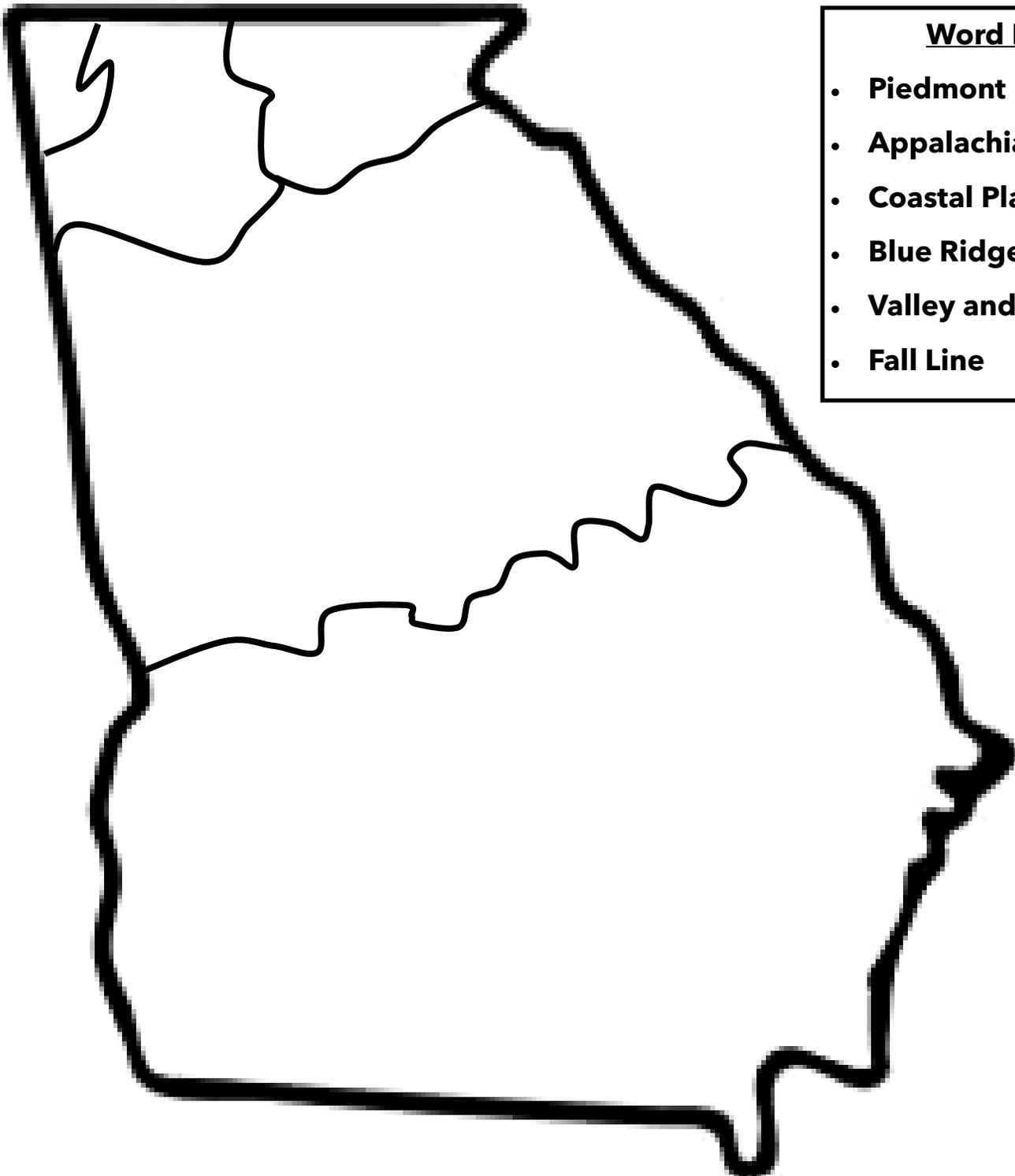


EDUCATION
GEORGIA AQUARIUM

Georgia Waters 3-5

Instructions: Label and color the regional map of Georgia using this image from the New Georgia Encyclopedia as a guide:

- <https://www.georgiaencyclopedia.org/sites/default/files/styles/article-gallery/public/m-9031.jpg?itok=4broGYaW>



Word Bank

- **Piedmont**
- **Appalachian Plateau**
- **Coastal Plains**
- **Blue Ridge**
- **Valley and Ridge**
- **Fall Line**

Try it for yourself!



Georgia Waters 3-5

During the program you saw an educator demonstrate how water flows as run-off and how watersheds are created by this run off. You can try this experiment at home as well! Try to create different geography and, for a step further, you can place buildings around your watershed as well to see how they affect the area!

What You Need:

- 1 large disposable lasagna aluminum pan
- 1 large mound of molding clay
- strip of astroturf or a carpet like substance
- food coloring (blue or purple)
- Dirt (potting soil)
- small watering can full of water
- (optional) small model or toy buildings

What You Will Do:

- Create a landmass with the clay in one side of the aluminum pan.
 - Make sure that it has different elevations like slopes and hills.
- Put the piece of carpet at the bottom of your clay structure in the middle of the pan (this will represent wetlands and Georgia's barrier islands).
- Fill the other side of the pan with clean water (this will represent the ocean)
- Drop multiple drops of food coloring and sprinkle potting soil on top of the clay representing sediment and pollutants.
- Use the watering can to sprinkle water at the top of the clay structure (representing precipitation) and watch the water move down the structure.
- The water will transport the food coloring and dirt to form streams and rivers as it flows down the clay
- The astro-turf will collect a lot of the water and represent wetlands and marshes that help protect the coastlines from erosion and pollution deposits.

