



1600 Riverside Road  
Jamestown, NY 14701

auduboncnc.org  
(716) 569-2345

## **Audubon Classroom Program – NY and PA**

### **Before the Audubon presenter comes:**

Please review the Curriculum Integration Guide information and materials with your class. We don't need you to teach the lesson, but it helps if students have some basic background in the concepts that we are teaching.

### **When the Audubon presenter is in your class:**

Please remember that we are guests in your school. We appreciate you being present during the lesson, helping with discipline, and making connections between our lesson and other things that your students are doing.

### **After the Audubon presenter leaves:**

Please keep the learning going. There is a post-visit activity, along with other ways to continue to explore this topic.

There is a teacher survey at <https://auduboncnc.org/classroomevaluation/> that you can complete to tell us how we are doing and what we can do to better suit your needs.

## Watersheds

### Curriculum Integration Guide

#### Pre-visit Activities

- Ask students what they know about watersheds.
- Discuss the purpose of creating models to understand, describe, and predict natural processes.

#### Extend the Learning

- Use the post-visit activity to reflect on the lesson.
- Go outside during a heavy rain and observe where and how water flows. Parking lots with drains or any impervious, sloped surfaces are good examples.
- Explore the watershed organizations in your community to understand local watershed issues. Organizations include:
  - Conewango Creek Watershed Association  
<https://www.conewangocreek.org/>
  - Chautauqua Lake & Watershed Management Alliance  
<http://www.chautauquaalliance.org/>
  - Chautauqua Watershed Conservancy  
<https://chautauquawatershed.org/>

#### Other Resources

- Click to drop a raindrop anywhere in the contiguous United States and watch where it ends up. <https://river-runner.samlearner.com/>
- Explore watersheds of the United States using Elevation Derivatives for National Application (EDNA) Watershed Atlas from the United States Geological Society (USGS). [https://edna.usgs.gov/watersheds/html\\_index.htm](https://edna.usgs.gov/watersheds/html_index.htm) (Use the html version, not the KML version.)
- This video describes how watersheds are the building blocks of our landscapes. 6:22 minutes. <https://www.youtube.com/watch?v=kqwYulqfC9k>

#### New York State Science Learning Standards

S2.A: Interdependent  
Relationships in Ecosystems

LS2.C: Ecosystem Dynamics,  
Functioning, and Resilience

#### Science and Engineering Practices

- Developing and Using  
Models

#### Pennsylvania Science Standards

##### Science as Inquiry

4.2.6.A Identify the five major  
watersheds of Pennsylvania.

4.2.6 Identify natural and  
human-made factors that affect  
water quality.

#### Objective of the Program

Students will create a model of a  
watershed, examine the causes  
and effects of natural processes  
and human actions in that  
watershed.

## **Watersheds**

### Post-visit Activity

Today you learned about watersheds. Complete the questions below to remind yourself what you learned.

What is a watershed?

---

---

---

What are some sources of pollution in a watershed?

---

---

---

What are two ways you can help keep your watershed clean?

---

---

---

---