



# Chesapeake Bay Watershed

Earth Science • April 2017

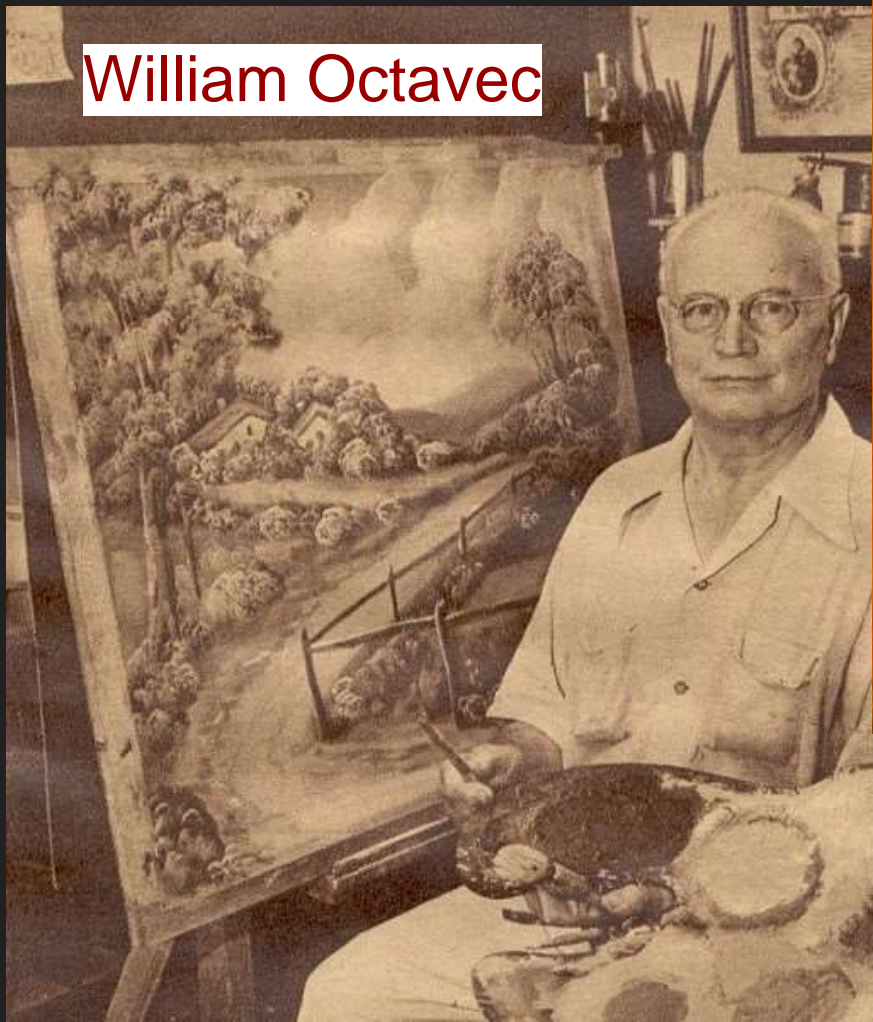


**Screen  
Painting:**

**A  
Baltimore  
Tradition**



William Octavec



1913,  
East Baltimore

Brush Dragging



Layers make colors pop

Super

Cool

Happy

On time

Outdoor play

Learning

Acrostic Poem

# Nutrients can be harmful





**Essential Questions:**

**What is a watershed?**

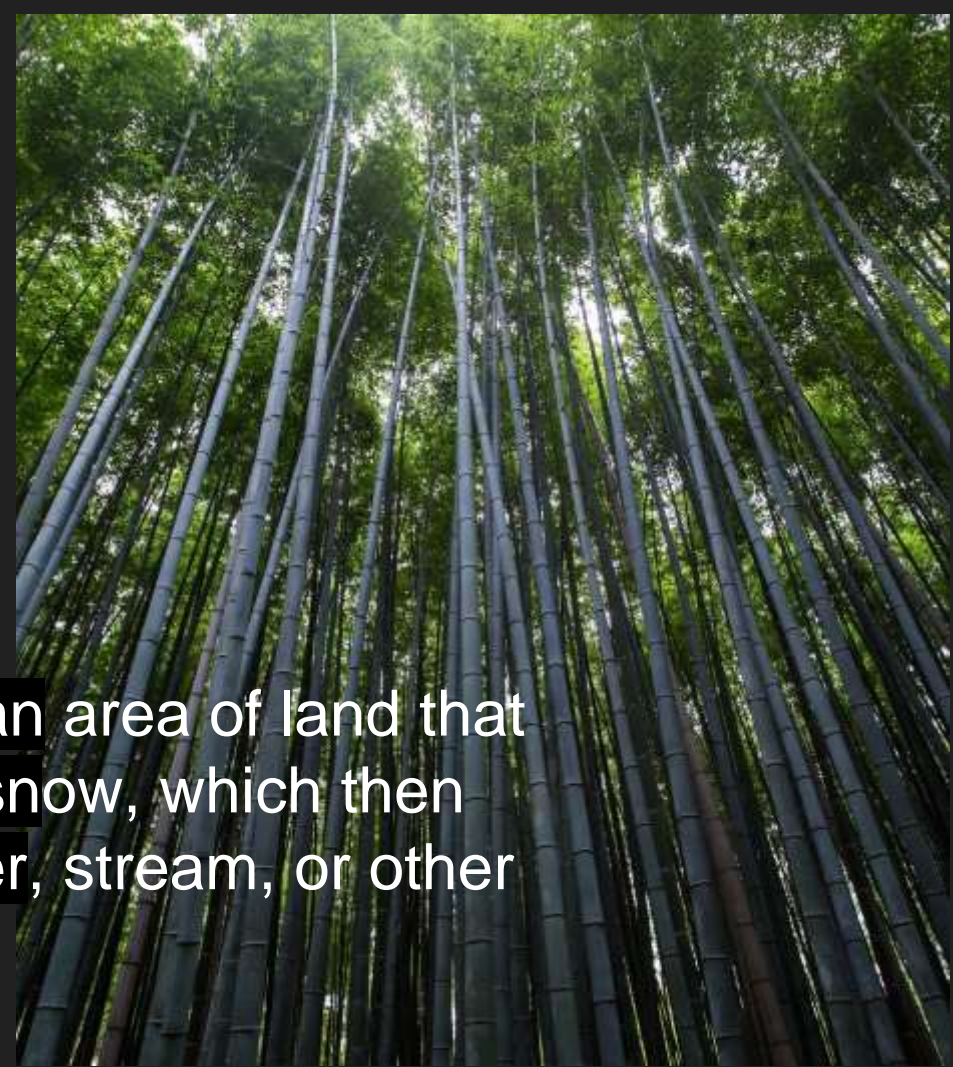
**Why are watersheds important?**

**Do we live in a watershed?**





A watershed is an area of land that catches rain or snow, which then drains into a river, stream, or other body of water.





# WHAT IS A WATERSHED?

## The Making of a River



6 states.

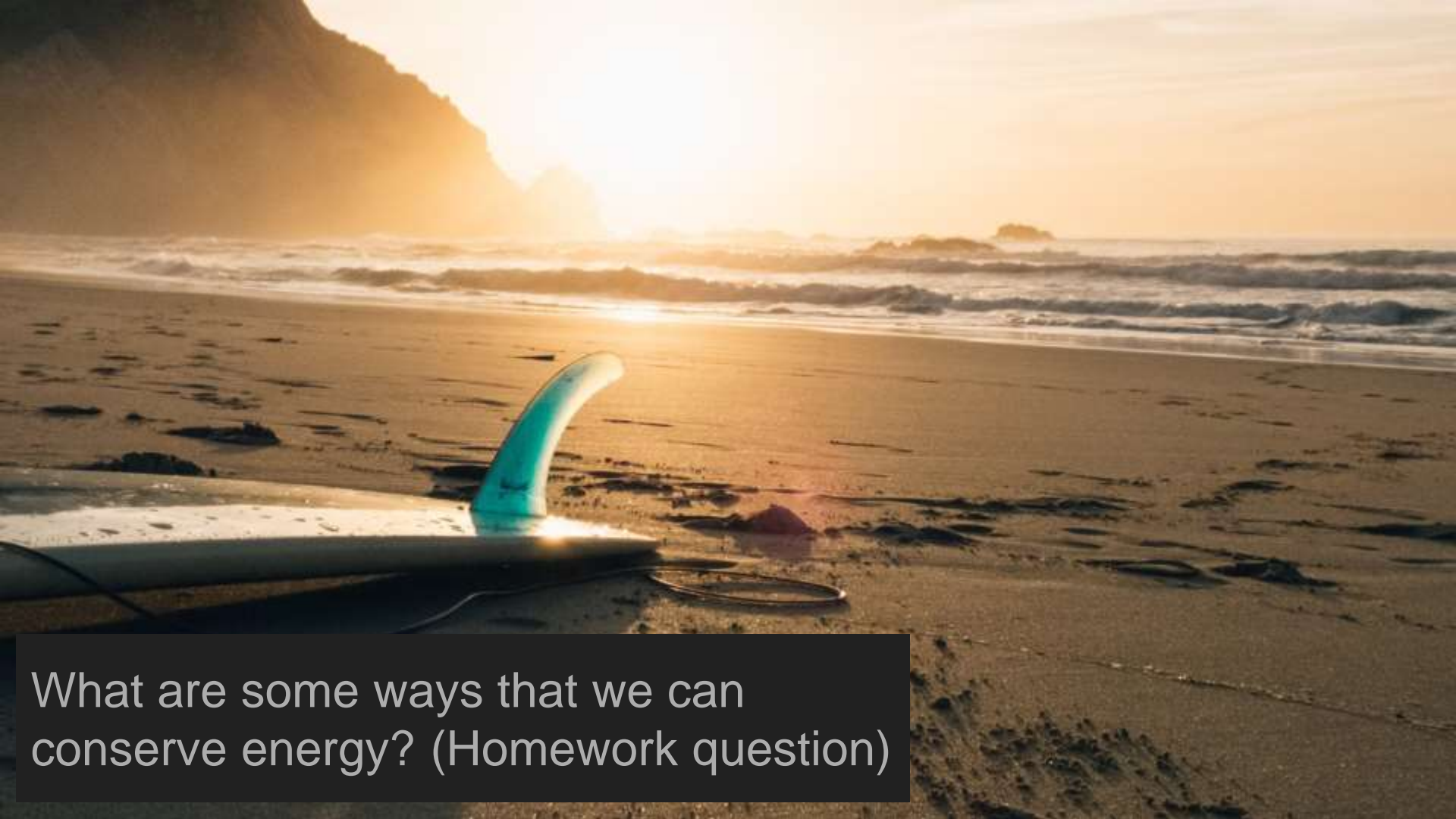
3,600 species of animals and  
plants.

17,000,000 people live in it.



**Vs.**





What are some ways that we can conserve energy? (Homework question)

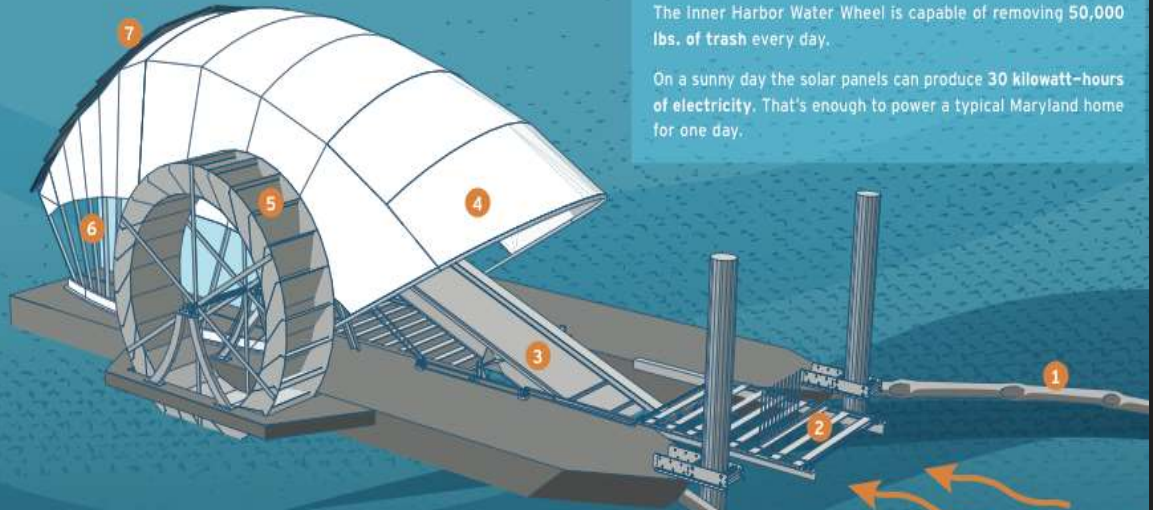
What can we do to help the Chesapeake Bay Watershed?





The **Green** Mentality

# Professor Trash Wheel



## Water Wheel Facts

The Inner Harbor Water Wheel is capable of removing 50,000 lbs. of trash every day.

On a sunny day the solar panels can produce 30 kilowatt-hours of electricity. That's enough to power a typical Maryland home for one day.

## Water Wheel Parts

- 1 Two trash containment booms direct trash and debris to the front of the Water Wheel
- 2 The debris raking system helps to move trash and debris to the front of the conveyor belt
- 3 The conveyor belt lifts trash and debris from the water and deposits it into the dumpster barge
- 4 The sail fabric cover protects the Water Wheel from wind and rain
- 5 The water wheel harnesses the current of the river to turn the conveyor belt
- 6 The dumpster barge stores trash and debris
- 7 The solar panel array provides additional power to turn the water wheel





# SOLAR vs. COAL



1 TON  
SAND



500,000 TONS  
COAL



Why do you think that solar and wind power are so important to our watershed's future?





# Watershed Connections



Homework: Come up with three different connections that you can find within the Chesapeake Bay Watershed?