NATIVE EXPEDITIONS

Timeframe: 1-3
50 minute class periods

Objectives

Learn how to organize and input raw data into the StreamWebs database

Recognize and discuss any data or equipment issues

Answer questions about their data

Compare their own data to another site chosen on StreamWebs

Consider variability within data typical of complex systems such as watersheds

Examine and analyze trends and relationships in water quality and macroinvertebrate data

Following up with Field Data

Teacher Background

Arkansas Game and Fish Stream Teams are required to submit their water quality monitoring data ONLINE or to one of the regional Stream Team Coordinators. Often, watershed data is collected and analyzed to monitor water quality, certain species, and relationships over time to track the health of a watershed and how it might affect the communities' health, land usage and building projects' effects on the stream, future plans for the land, and the overall care of that watershed.

Discussions with students will include the idea that other project sites may have many similarities and many differences. For example, they may have more or less tree coverage to help keep the stream cool, add more or less debris in the stream, and/or to affect bank stability and erosion. The general watershed location, conditions, and how the land is used greatly affect the stream.

Description

In this lesson, students will work in the classroom with their field data specifically to learn how to read data, enter them into a spreadsheet or database , and begin to build data analysis and interpretation skills that allow them to explain and share their data with their community.

Reporting Data

As of early 2020, Stream Team is now collecting digital data submissions through Survey123. Your team's data will be reviewed by Stream Team Coordinators and administrative staff for quality control purposes. Your data are available through information requests through your appropriate coordinator, or through the Stream Team Mapper.   As your data is entered and approved it

will be posted on-line. https://agfc.maps.arcgis.com/apps/MapSeries/index.html?appid=a217c4a6cc234c58b193da7cfc74a9ca

Please follow along with your grades skillset to your teachers guidance using the Arkansas Game and Fish Stream Team (ST Data Management Guide) which can be downloaded @ **https://www.agfc.com/en/education/onthewater/streamteam/citizen-science-tools/**

Citizen Science Tools - Data Management

You Tube - Data Management Webinar

https://www.youtube.com/watch?v=yskr24jTmy8&feature=youtu.be