

Earth Systems: Unit 11 Study Guide

es2u11sg (Stream Studies II)

<http://www.fdlccc.edu/ei/rw/index.html> (St. Louis River - River Watch Official Site)

Study Objectives

1. Design and complete a scientific experiment using scientific methods by determining a testable question, making a hypothesis, designing a scientific investigation with appropriate controls, analyzing data, making conclusions based on evidence and comparing conclusions to the original hypothesis and prior knowledge.
2. Distinguish between qualitative and quantitative data.
3. Apply mathematics and models to analyze data and support conclusions.
4. Identify possible sources of error and their effects on results.
5. Identify, predict and investigate the factors that influence the quality of water.
6. Explain the relationship between abiotic and biotic components of an ecosystem in terms of the cycling of water, carbon, oxygen and nitrogen.

Vocabulary

benthic macroinvertebrate biochemical oxygen demand (BOD) dissolved oxygen (DO) run impairment pool riffle
reagent stream flow riparian zone riprap substrate turbidity watershed pH nitrate cfs
Hemiptera Isopoda Odonata Trichoptera Plecoptera Coleoptera Ephemeroptera
Amphipoda Pelcypoda Gastropoda Chironomidae Hirudinea

Assignments

- **Read:** "St. Louis River Article"
- **Vocabulary Quiz 10pts**
- **BMI Quiz 10pts**
- **Presentation Content 10pts; Presentation Quality 10pts**

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