

Geology Lesson Plan

- A. Description: My project is to collect and test water samples each month from local stream a local stream and report to the lowater Project. This will be done with students in Science 11 – a junior-level general science class for special education students.
- B. Objectives / Goals: Students will develop an understanding of our local watersheds and water quality. They will learn how to conduct a complete physical, chemical, and habitat assessment of our local stream site.
- C. Implementation: In the Hydrologic Cycle unit of my course, students will be introduced to the importance of chemical, physical, and habitat monitoring of Iowa's rivers and streams. Each pair of students (5-6 groups) will learn how to do a specific test on a sample of water (pH, dissolved O<sub>2</sub>, nitrate, phosphate, transparency, etc.). They will then teach the class how to do that same test. After practicing in the classroom, we will go to our stream site and perform a complete assessment.
- D. Evaluation: Students will be assessed based on the clarity of their teaching presentation, as well as the accuracy of their stream water test.