

Illuminations Electronic Resource
Dr. Steele, Math 410, Fall 2005

10 points

Electronic Resource: NCTM Illuminations: <http://illuminations.nctm.org/>

Description of Resource: Illuminations is an electronic resource that contains free educational ideas, problems, and lesson plans for students in Kindergarten through Grade 12. Some problems/lessons are one day lessons and some are multiple-day lesson. You may use either one.

Goals: To analyze a problem/lesson to teach middle school mathematics. The aim of this assignment is for you to make instructional decisions about the use of curricular resources in the teaching of middle school mathematics.

Preparation: Download the article, teacher worksheets, and student worksheets. Make copies of the worksheets and gather other materials as noted in the teacher pages.

Materials for the Instructor

1. A copy of your report
2. The materials you downloaded. These materials will be returned to you.

Format for the Report

Give a summary (one paragraph) of the main ideas of the activity. The summary should include the topic of your problem/lesson, general comments, and the strengths and weaknesses of activity. Provide an analysis that includes the essential mathematical ideas students will learn from the activity.

Give specific examples of the ways you intend to use the activity in your teaching in order to improve mathematics instruction in your classroom. Specify the grade level where activity might first be used and how it could be used (for example, a class opener, an enrichment problem, a recreational activity, etc. [more than one use is possible]). Do you think the activity is a good one? If so, why? Be specific.