

**Date:** May 5, 2010

**Subject:** Geometry

**Grade:** 7

**Unit:** Geometry and Spatial Reasoning (Chapter 6)

**Lesson:** Reflections

**Source:** Math Connects: Concepts, Skills, and Problem Solving by Day, et.al. (Volume 2, Teacher's Edition)

**Student Teacher:** Irma Crespo

**Objective (Purpose):**

Graph reflections on a coordinate plane.

**GLCEs:** MI\_MATH\_K-07-G-TR-03 (*G.TR.07.03*); MI\_MATH\_K-07-G-TR-05 (*G.TR.07.05*)

**Materials:**

Pens, pencils, papers, activity worksheets, practice worksheets, "Reflections" PowerPoint

**Procedure:**

*Anticipatory Set*

- The routine of homework checking is implemented.
- The teacher talks about mirrors and reflections.
- The teacher connects the activity to geometric reflections.

*Questions to Check for Understanding*

The essential questions focus on plotting reflections of a figure.

*Modeling/Guided and Independent Practice*

- The teacher opens up PowerPoint and begins with "Mirror Images."
- The definition and discussion of identifying reflections follow.
- Drawing reflections is modeled and then, a guided practice follows.
- Next, reflecting a figure over an axis is demonstrated.
- The students are provided several examples to work on for recitation.
- Practice worksheets are handed out for individual completion. These are submitted for grading.

*Closure Activity*

- The teacher summarizes the current lesson with recap of the main points.

*Extension and Application*

The exit slip involves having students explain what a geometric reflection means. The Skills Practice (6-6, page 39) is a homework that reinforces the lessons learned.

### ***Behavior Management Strategy***

- Mix of lecture, interactive discussion, and individual work for differentiated instruction.
- Reiterating the students' contribution to the class discussion is a way to compliment student participation.
- Recitation boosts confidence and improves the students' mathematical discourse.
- PowerPoint is a tool for visual learners especially in geometry.

### **Assessment of Objectives**

#### ***1. Evaluation of Student Learning***

The teacher evaluates how much the students learned through the activity/practice worksheets, which fulfill the GLCE standards on geometry and spatial reasoning.

**Attachments:** Activity/practice worksheets and PowerPoint presentation