

# Unmasking the Villian

Lesson Plan

**Cube Fellow:** Chris Mattingly

**Teacher Mentor:** Lisa Osborne

**Goal:** To help students understand why we solve equations the way we do.

**Grade and Course:** 9th grade - Algebra I

**KY Standards:** MA-HS.1.3.1, MA-HS.1.5.1, MA-HS.5.2.1, MA-HS.5.3.1

**Objectives:** The students should be familiar with Orders of Operations, and the basic inverse operations already. This should help the students visualize that we undo things in the reverse order that they were done in.

**Resources/materials needed:** Computer with projector.

**Description of Plan:** Basically we just go through the slideshow. We will briefly discuss how we solve 'one-step' equations. After that we watch a Family Guy clip with a brief discussion to show that when you put on multiple layers, you remove them in reverse. This leads us to orders of operations, and how we can 'build' an equation using orders of operations. Finally to solve the equations, we use our inverse operations in the reverse order. A few examples follow, with the students trying them on their own and then presenting their solutions.

**Lesson Source:** Original lesson.

**Instructional Mode:** Powerpoint presentation.

**Date Given:** 09/30/2008

**Estimated Time:** One class period

**Date Submitted to Algebra<sup>3</sup>:** 02/09/2009