



NCEA Math Lesson Plan

Grade: 6

Subject: Mathematics

Domain: Equations and Inequalities
Standard Number(s) and Description: 6.EE.5 Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.
Vocabulary to be Highlighted: Substitution, equation, inequality
Mathematical Practices (#): 2. Reason abstractly and quantitatively. 3. Construct viable arguments and critique the reasoning of others. Essential Questions: How do you determine whether a given number in a specified set makes an equation or inequality true? What does it mean to substitute? How can you know if a value for an equation is true? What do the symbols $<$ $>$ $=$ represent? What are the differences between parentheses, brackets, and braces? What is their purpose?
Materials/Tools (include technology): Interactive flipchart (from available technology) The Ten Commandments
Connections to Other Math Domains:
Connections to Other Subject Areas:
Catholic Identity Component: Students will identify mathematical statements that would show someone following the Ten Commandments.
Resources (attachments): National Standards and Benchmarks for Effective Catholic Elementary and Secondary Schools: available at http://www.catholicschoolstandards.org/files/Catholic_School_Standards_03-12.pdf
Activities/Timeline: Lesson 1 1. Recall the third commandment: Remember to keep holy the Sabbath day. Ask, “What equals keeping holy the Sabbath day?” 2. Display student responses using set notation. Ask “What actions would be greater than

keeping holy the Sabbath day?” and “What actions would show not keeping holy the Sabbath day?”

3. Have students choose another commandment in small groups to show equalities and inequalities.

Lesson 2

1. Model a specified set of values. Identify an equation and inequality. Ask students to determine whether given numbers within the specified set make the equation and/or inequality true.

2. Provide a specified set of values for class as well as a variety of equations and inequalities for students to determine if values from the specified set make the equations or inequalities true.

Enrichment

Ask students to create a real-world situation in which a given amount proves truth (i.e. “Which measuring cup would you use to double a recipe?”).

Formative Assessment (what to look for, how/when to look):

Observe student work.

Summative Assessment: