

Biblical Worldview Integration Planner

1. Subject Math Reference(s) Pre-Algebra, Prentice Hall, 2001, Chapter 7-1 Grade 7
 Teacher _____ School _____ Contact _____ Date _____

2. Lesson or Unit Objective/Outcome

underline thinking level and circle academic content

Students will be able to solve "real world" problems using two-step algebraic equations.

3. Lesson Plan

a) Set [gets students "set" for learning]
 Lynne saves \$45 each week. She now has \$180. She plans to save for a trip to Puerto Rico. Today we're going to learn a quick way to find out how many weeks it will take for her to save \$900.

b) Delivery [outline of lesson plan]

Use algebra tiles to demonstrate how to solve two-step equations using the problem $2x + 1 = 5$ [$2x + 1 - 1 = 5 - 1$ becomes $2x = 4$, then $2x \div 2 = 4 \div 2$ becomes $x = 2$]

Have the class solve $15x + 3 = 48$ and other equations on top of page 337.

Together, solve the problem given at the beginning of class (see "set" above).

Do problem 7, p 337 together.

c) Closing [recap, transition or assignment, etc.]

Have the class do exercises on page 338-339 on their own, if they appear ready. If not, do a couple more problems together.

INSTRUCTIONS

1. Fill in Subject, Reference(s), Grade, Teacher, etc. at top.
2. Determine Lesson or Unit Objective.
3. Outline Lesson Plan.
4. Select Biblical Worldview Component.
5. Specify Specific Biblical Truth to be integrated.
6. Write Biblical Worldview Integration Objective.
7. Determine Integration Plan.
8. Add Post-Lesson Comments, if any.

7. INTEGRATION PLAN

Assignment: "On page 339, omit Question 37 and substitute this one: Design a word problem that involves participation in God's First Commission to steward the earth, and requires use of a two-step equation to accomplish the task. If you describe a project that you are actually involved in, you will be given extra credit."

Explain what the First Commission is for those students who are new to the school and may not be familiar with the term. Reference Genesis 1:26-28. Underscore the fact that math tools, such as two-step equations, can be used to participate in the First Commission. Ask the class for some real-world examples of First Commission stewardship.

Give my own example of helping to solve the erosion problem in the Carbon River by planting grass seed along a section that runs through the south part of town. The section is 3000 feet long, and required spreading seed over a 24000 square foot area, providing 4 feet of grass on both sides of the river. I already had 5 bags of grass seed left over from a previous job. Each bag covers 1000 square feet (5000 total on hand). How many more 1000-sq-ft-covering bags of seed did I need for the job? $(1000b + 5000 = 24000; 1000b + 5000 - 5000 = 24000 - 5000; 1000b = 19000; b = 19 \text{ bags})$

4. Biblical Worldview Component

How does the academic content connect with the bigger picture of:

- GOD
 - CREATION
 - MANKIND
 - MORAL ORDER
 - PURPOSE
- Select one.

5. Specific Biblical Truth

to be integrated

Through the proper solving of two-step equations, humans can participate in God's First Commission to steward the earth.

6. Biblical Worldview Integration Objective

The students will demonstrate that through the proper solving of two-step equations, they can participate in God's First Commission to steward the earth, by designing a project related to stewardship over the earth that requires use of a two-step equation to accomplish.

8. Post-Lesson Comments:

Biblical Worldview Focus Question:

How does two-step algebraic equations connect with the bigger picture of (the Academic Content of this lesson)

God [the nature, character and role of God?]

The way to solve two-step equations came from the mind of God.

Creation [what is made and sustained by God?]

Two-step equations remind us that we live in an intelligently designed and ordered universe.

Mankind [who and what humans are?]

The human ability to solve two-step equations is a demonstration that we have been uniquely made in the likeness and image of God.

Moral Order [moral behavior and responsibility?]

We have a responsibility before God to use two-step equations for good, and not evil.

Purpose [the intention and meaning of all that exists?]

Through the proper solving of two-step equations, humans can actively participate in God's First Commission to govern over the earth.

- **Knowledge:** list, tell, identify, show, label, collect, examine, tabulate, quote, name, etc.
- **Comprehension:** summarize, describe, associate, distinguish, estimate, differentiate, explain in their own words, discuss, articulate, etc.
- **Application:** apply, demonstrate, calculate, complete, illustrate, show, solve, modify, relate, change, use, classify, experiment, etc.
- **Analysis:** analyze, separate, order, connect, classify, arrange, divide, compare, contrast, select, determine, decipher, predict, interpret, infer, etc.
- **Synthesis:** combine, integrate, modify, rearrange, substitute, plan, create, design, invent, compose, formulate, generalize, etc.
- **Evaluation:** assess, decide, rank, grade, test, measure, recommend, convince, select, judge, defend, discriminate, support, conclude, etc.