

*Curriculum Guide Algebra 1A*

**Unit 1: Expressions, Equations and Functions**

Biblical Worldview Essential Questions:

Is your life “balanced” as a believer?

Are you a “real” Christian?

**21 Lessons**

**A1A#1, #5**

<b>Objectives</b>	<b>Methods</b>	<b>Resources</b>	<b>Assessment</b>
The students will 1. Evaluate algebraic expressions and use exponents. 2. Use order of operations to evaluate expressions. 3. Translate verbal phrases into expressions. 4. Translate verbal sentences into equations or inequalities. 5. Use a problem solving plan to solve problems. 6. Represent functions as rules and as tables. 7. Represent functions as graphs.	<ul style="list-style-type: none"><li>• Teacher lecture</li><li>• Teacher working examples on the board</li><li>• Student guided practice of problems in book</li><li>• Cooperative learning groups</li><li>• Individual assistance</li><li>• Partner work</li><li>• Worksheets</li><li>• Homework</li><li>• Show related YouTube videos</li></ul>	Holt McDougal Larson Algebra 1, 2011	<ul style="list-style-type: none"><li>• Check homework</li><li>• Quizzes</li><li>• Mid-Chapter Test</li><li>• Free-Response Chapter test</li><li>• Oral response</li><li>• Board work</li></ul>

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**Unit 2: Properties of Real Numbers**

Biblical Worldview Essential Question:

Does the evidence in your life show a “relation” to Christ or the world?

**21 Lessons**

**A1A#2**

<b>Objectives</b>	<b>Methods</b>	<b>Resources</b>	<b>Assessment</b>
The students will 1. Graph and compare positive and negative numbers. 2. Add positive and negative numbers. 3. Subtract real numbers. 4. Multiply real numbers. 5. Apply the distributive property. 6. Divide real numbers. 7. Find square roots and compare real numbers.	<ul style="list-style-type: none"><li>• Teacher lecture</li><li>• Teacher working examples on the board</li><li>• Student guided practice of problems in book</li><li>• Cooperative learning groups</li><li>• Individual assistance</li><li>• Partner work</li><li>• Worksheets</li><li>• Homework</li><li>• Show related YouTube videos</li></ul>	Holt McDougal Larson Algebra 1, 2011	<ul style="list-style-type: none"><li>• Check homework</li><li>• Quizzes</li><li>• Mid-Chapter Test</li><li>• Free-Response Chapter test</li><li>• Oral response</li><li>• Board work</li></ul>

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**Unit 3: Solving Linear Equations**

Biblical Worldview Essential Question:

**What happens when you have too many “variables” in your life?**

**24 Lessons**

**A1A#2, #3, #4**

<b>Objectives</b>	<b>Methods</b>	<b>Resources</b>	<b>Assessment</b>
The students will 1. Solve one-step equations using algebra. 2. Solve two-step equations. 3. Solve multi-step equations. 4. Solve equations with variables on both sides. 5. Find ratios and write and solve proportions. 6. Solve proportions using cross products. 7. Solve percent problems. 8. Rewrite equations and formulas.	<ul style="list-style-type: none"><li>• Teacher lecture</li><li>• Teacher working examples on the board</li><li>• Student guided practice of problems in book</li><li>• Cooperative learning groups</li><li>• Individual assistance</li><li>• Partner work</li><li>• Worksheets</li><li>• Homework</li><li>• Show related YouTube videos</li></ul>	Holt McDougal Larson Algebra 1, 2011	<ul style="list-style-type: none"><li>• Check homework</li><li>• Quizzes</li><li>• Mid-Chapter Test</li><li>• Free-Response Chapter test</li><li>• Oral response</li><li>• Board work</li></ul>

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**Unit 4: Graphing Linear Equations and Inequalities**

Biblical Worldview Essential Question:

**What does it mean to be “fearfully and wonderfully” made?**

**21 Lessons**

**A1A#6, 9, 10**

<b>Objectives</b>	<b>Methods</b>	<b>Resources</b>	<b>Assessment</b>
The students will 1. Identify and plot points in a coordinate plane. 2. Graph linear equations in a coordinate plane. 3. Graph linear equations using intercepts. 4. Find the slope of a line and interpret slope as a rate of change. 5. Graph linear equations using slope-intercept form. 6. Write and graph direct variation equations. 7. Use function notation.	<ul style="list-style-type: none"><li>• Teacher lecture</li><li>• Teacher working examples on the board</li><li>• Student guided practice of problems in book</li><li>• Cooperative learning groups</li><li>• Individual assistance</li><li>• Partner work</li><li>• Worksheets</li><li>• Homework</li><li>• Show related YouTube videos</li></ul>	Holt McDougal Larson Algebra 1, 2011	<ul style="list-style-type: none"><li>• Check homework</li><li>• Quizzes</li><li>• Mid-Chapter Test</li><li>• Free-Response Chapter test</li><li>• Oral response</li><li>• Board work</li></ul>

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**Unit 5: Writing Linear Equations**

Biblical Worldview Essential Question:

**What are the “factors” of the gospel message?**

**21 Lessons**

**A1A#6, 9, 10**

<b>Objectives</b>	<b>Methods</b>	<b>Resources</b>	<b>Assessment</b>
The students will 1. Write equations of lines. 2. Write an equation of a line using points on a line. 3. Write linear equations in point-slope form. 4. Write linear equations in standard form. 5. Write equations of parallel and perpendicular lines. 6. Make scatter plots and write equations to model data. 7. Make predictions using best-fitting lines.	<ul style="list-style-type: none"><li>• Teacher lecture</li><li>• Teacher working examples on the board</li><li>• Student guided practice of problems in book</li><li>• Cooperative learning groups</li><li>• Individual assistance</li><li>• Partner work</li><li>• Worksheets</li><li>• Homework</li><li>• Show related YouTube videos</li></ul>	Holt McDougal Larson Algebra 1, 2011	<ul style="list-style-type: none"><li>• Check homework</li><li>• Quizzes</li><li>• Mid-Chapter Test</li><li>• Free-Response Chapter test</li><li>• Oral response</li><li>• Board work</li></ul>

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**Unit 6: Solving and Graphing Linear Inequalities**

Biblical Worldview Essential Question:

**What are the “many terms” of the Mosaic Law?**

**21 Lessons**

**A1A#4**

<b>Objectives</b>	<b>Methods</b>	<b>Resources</b>	<b>Assessment</b>
The students will 1. Solve inequalities using addition and subtraction. 2. Solve inequalities using multiplication and division. 3. Solve multi-step inequalities. 4. Solve compound inequalities. 5. Solve absolute value equations. 6. Solve absolute value inequalities. 7. Graph linear inequalities in two variables.	<ul style="list-style-type: none"><li>• Teacher lecture</li><li>• Teacher working examples on the board</li><li>• Student guided practice of problems in book</li><li>• Cooperative learning groups</li><li>• Individual assistance</li><li>• Partner work</li><li>• Worksheets</li><li>• Homework</li><li>• Show related YouTube videos</li></ul>	Holt McDougal Larson Algebra 1, 2011	<ul style="list-style-type: none"><li>• Check homework</li><li>• Quizzes</li><li>• Mid-Chapter Test</li><li>• Free-Response Chapter test</li><li>• Oral response</li><li>• Board work</li></ul>

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**Unit 7: Systems of Equations and Inequalities**

Biblical Worldview Essential Question:

**What are “rational arguments” for the creation account in Genesis 1?**

**18 Lessons**

**A1A#4, 6, 7**

<b>Objectives</b>	<b>Methods</b>	<b>Resources</b>	<b>Assessment</b>
The students will 1. Graph and solve systems of linear equations. 2. Solve systems of linear equations by substitution. 3. Solve linear systems using elimination. 4. Solve linear systems by multiplying first. 5. Identify the number of solutions of a linear system. 6. Solve systems of linear inequalities in two variables.	<ul style="list-style-type: none"><li>• Teacher lecture</li><li>• Teacher working examples on the board</li><li>• Student guided practice of problems in book</li><li>• Cooperative learning groups</li><li>• Individual assistance</li><li>• Partner work</li><li>• Worksheets</li><li>• Homework</li><li>• Show related YouTube videos</li></ul>	Holt McDougal Larson Algebra 1, 2011	<ul style="list-style-type: none"><li>• Check homework</li><li>• Quizzes</li><li>• Mid-Chapter Test</li><li>• Free-Response Chapter test</li><li>• Oral response</li><li>• Board work</li></ul>