Algebra 1 2016-2017

Yap Seventh-Day Adventist School

Yearly Lesson Outline with NAD Standards

Holt McDougal Larson Algebra 1, Common Core Edition

Quarter 1

Chapter 1 – Expressions, Equations, and Functions
AI.4.1 – Simplify expressions using the order of operations, including properties of exponents, square roots, and absolute value.
AI.4.2 – Identify numbers and relationships among numbers (properties, equations, inequalities, ratios, proportions, unit analysis, rational vs. irrational, etc.).
AI.5.1 – Use and evaluate expressions involving variables.
AI.5.2 – Write equations, systems of equations, and inequalities from written and oral expression, recognizing equivalent forms.
AI.5.3 – Identify, graph, solve, and interpret linear and quadratic equations and inequalities, including the concept of variation.
AI.6.3 – Use and manipulate given formulas to solve a variety of problems (slope, distance, area, volume, perimeter, midpoint, etc.)
AI.7.1 – Find and interpret information from graphs, charts, and numerical data.

Chapter 2 – Solving Linear Equations
AI.5.1 – Use and evaluate expressions involving variables.
AI.5.2 – Write equations, systems of equations, and inequalities from written and oral expression, recognizing equivalent forms.
AI.6.1 – Calculate measurable attributes of figures (degrees of angles, lengths, perimeter, area, volume).
AI.6.3 – Use and manipulate given formulas to solve a variety of problems (slope, distance, area, volume, perimeter, midpoint, etc.)
AI.7.3 – Judge meaning, utility, and reasonableness of findings in a variety of situations, including those carried out by technology.

Quarter 2

Chapter 3 – Graphing Linear Equations and Functions
AI.5.2 – Write equations, systems of equations, and inequalities from written and oral expression, recognizing equivalent forms.
AI.5.3 – Identify, graph, solve, and interpret linear and quadratic equations and inequalities, including the concept of variation.
AI.6.3 – Use and manipulate given formulas to solve a variety of problems (slope, distance, area, volume, perimeter, midpoint, etc.)
AI.7.1 – Find and interpret information from graphs, charts, and numerical data.

Chapter 4 – Writing Linear Equations
AI.5.1 – Use and evaluate expressions involving variables.

AI.5.2 – Write equations, systems of equations, and inequalities from written and oral expression, recognizing equivalent forms.
AI.5.3 – Identify, graph, solve, and interpret linear and quadratic equations and inequalities, including the concept of variation.
AI.7.1 – Find and interpret information from graphs, charts, and numerical data.
AI.7.2 – Predict patterns and generalize trends.

Quarter 3

Chapter 5 – Solving and Graphing Linear Inequalities
AI.5.1 – Use and evaluate expressions involving variables.
AI.5.2 – Write equations, systems of equations, and inequalities from written and oral expression, recognizing equivalent forms.
AI.5.3 – Identify, graph, solve, and interpret linear and quadratic equations and inequalities, including the concept of variation.
AI.7.1 – Find and interpret information from graphs, charts, and numerical data.
AI.7.3 – Judge meaning, utility, and reasonableness of findings in a variety of situations, including those carried out by technology.

Chapter 6 – Systems of Equations and Inequalities
AI.5.1 – Use and evaluate expressions involving variables.
AI.5.2 – Write equations, systems of equations, and inequalities from written and oral expression, recognizing equivalent forms.
AI.6.2 – Demonstrate mathematical proficiency using technology when appropriate.
AI.7.1 – Find and interpret information from graphs, charts, and numerical data.
AI.7.3 – Judge meaning, utility, and reasonableness of findings in a variety of situations, including those carried out by technology.

Quarter 4

Chapter 7 – Exponents and Exponential Functions
AI.5.1 – Use and evaluate expressions involving variables.
AI.5.2 – Write equations, systems of equations, and inequalities from written and oral expression, recognizing equivalent forms.
AI.5.3 – Identify, graph, solve, and interpret linear and quadratic equations and inequalities, including the concept of variation.
AI.6.2 – Demonstrate mathematical proficiency using technology when appropriate.
AI.6.5 – Solve consumer-related problems (profit, loss, sales tax, discount, interest, etc.)
AI.7.1 – Find and interpret information from graphs, charts, and numerical data.
AI.7.2 – Predict patterns and generalize trends.
AI.7.3 – Judge meaning, utility, and reasonableness of findings in a variety of situations, including those carried out by technology.

Chapter 8 – Polynomials and Factoring
AI.5.1 – Use and evaluate expressions involving variables.
AI.5.2 – Write equations, systems of equations, and inequalities from written and oral expression, recognizing equivalent forms.
AI.5.3 – Identify, graph, solve, and interpret linear and quadratic equations and inequalities, including

the concept of variation.
AI.6.2 – Demonstrate mathematical proficiency using technology when appropriate.
AI.6.4 – Perform operations involving polynomials and rational expressions.
AI.7.2 – Predict patterns and generalize trends.

Chapter 10 – Data Analysis
AI.5.4 – Recognize, evaluate, and interpret functions (including domain and range).
AI.6.5 – Solve consumer-related problems (profit, loss, sales tax, discount, interest, etc.)
AI.7.1 – Find and interpret information from graphs, charts, and numerical data.
AI.7.2 – Predict patterns and generalize trends.
AI.7.3 – Judge meaning, utility, and reasonableness of findings in a variety of situations, including those carried out by technology.