Unit/Chapter/Lesson	Lesson Description	Approximate Date Covered	IN 7th Grade Math Standards Covered in Lesson and/or Homework	Key Questions	Resources/Activities	Vocabulary	Assessments
Unit 1 Lesson 1	Order Of Operations	August 21	7.C.8, 7.AF.1, Al.PS.2	In what order do we perform arithmetic operations to evaluate them?	Notetaking Guide, Notes, Mathweb Links	Order of Operations	Homework, Class Observations, Technological Assessment
Unit 1 Lesson 2	Negative Numbers, Opposites, Absolute Value, Inequalities	August 23	Al.L.9	What are opposite numbers? How do we represent absolute value on a number line?	Notetaking Guide, Notes, Mathweb Links	Opposite numbers, absolute value	Homework, Class Observations, Technological Assessment
Unit 1 Lesson 3	Review Of Sign Rules For Arithmetic Operations, Unit Multipliers	August 27	7.C.1	How do we perform operations on postive and negative numbers?	Notetaking Guide, Notes, Mathweb Links	Unit multiplier	Homework, Class Observations, Technological Assessment
Unit 1 Lesson 4	Evaluating Algebraic Expressions, Combining Like Terms	August 31	7.C.3	What are the rules for combining like terms? How do we evaluate algebraic expressions?	Notetaking Guide, Notes, Mathweb Links	Algebraic expression, combine like terms	Homework, Class Observations, Technological Assessment
Unit 1 Lesson 5	Evaluating Expressions That Distribute Negative Numbers Nested Group	September 5	7.PS.7, Al.PS.7, 7.C.3, 7.AF.1	How do we distribute negative numbers across parentheses?	Notetaking Guide, Notes, Mathweb Links	Distribute, distributive property	Homework, Class Observations, Technological Assessment, Written Assessment
Unit 2 Lesson 1	Solving One-Step Linear Equations	September 13	Al.L.2, Al.PS.2, Al.L.1	How do we solve 1-step equations?	Notetaking Guide, Notes, Mathweb Links	Equation	Homework, Class Observations, Technological Assessment
Unit 2 Lesson 2	Solving Two-Step Linear Equations	September 17	Al.L.2, Al.PS.2, Al.L.1	How do we solve 2-step equations?	Notetaking Guide, Notes, Mathweb Links		Homework, Class Observations, Technological Assessment
Unit 2 Lesson 3	Solving Linear Equations By Combining Like Terms, Solving Multiple Step Linear Equations	September 19	Al.L.2, Al.PS.2, Al.L.1	In what order to we perform the steps to solve multi-step equations? How do we combine like terms when we solve equations?	Notetaking Guide, Notes, Mathweb Links		Homework, Class Observations, Technological Assessment
Unit 2 Lesson 4	Solving Linear Equations With Variables On Both Sides	September 21	Al.L.2, Al.PS.2, Al.L.1	How do we solve equations with variables on both sides?	Notetaking Guide, Notes, Mathweb Links		Homework, Class Observations, Technological Assessment, Written Assessment

Unit 3 Lesson 1	Inequality Statements	October 1	Al.L.2, Al.L.1, Al.L.7, Al.SEI.3	How do we graphically represent inequlalites? How do we translate real-world problems into mathematical inequalities?	Notetaking Guide, Notes, Mathweb Links	Inequality	Homework, Class Observations, Technological Assessment, Tests, Timings
Unit 3 Lesson 2	Solving Linear Inequalities	October 3	Al.L.2	How do we solve linear inequalities?	Notetaking Guide, Notes, Mathweb Links		Homework, Class Observations, Technological Assessment, Written Assessment
Unit 4 Lesson 1	Converting Word Expressions Into Algebraic Expressions, Solving Simple Word Problems	October 15	Al.L.5	How do we translate real-world problems into algebraic equations?	Notetaking Guide, Notes, Mathweb Links		Homework, Class Observations, Technological Assessment
Unit 4 Lesson 2	Solving Perimeter And Area Word Problems	October 17	Al.L.5	How can we algebraically represent perimeter and area problems to solve them?	Notetaking Guide, Notes, Mathweb Links		Homework, Class Observations, Technological Assessment
Unit 4 Lesson 3	Percent Problems	October 30	Al.L.5	How can we algebraically represent percent problems to solve them?	Notetaking Guide, Notes, Mathweb Links		Homework, Class Observations, Technological Assessment
Unit 4 Lesson 4	Moore Area, Perimeter, And Percent Problems	November 5	Al.L.5		Notetaking Guide, Notes, Mathweb Links	Area, perimeter, percent	Homework, Class Observations, Technological Assessment
Unit 4 Lesson 5	Solving Abstract Equations	November 9	AI.L.11, Al.PS.2	How do we isolate one variable in an equations that has multiple variables?	Notetaking Guide, Notes, Mathweb Links	Abstract equation	Homework, Class Observations, Technological Assessment, Written Assessment
Unit 5 Lesson 1	The Coordinate Axes, Reflections, And Translations	November 20		What does it mean to reflect or translate a geometric object on a coordinate plane?	Notetaking Guide, Notes, Mathweb Links	Reflection, translation, coordinate plane	Homework, Class Observations, Technological Assessment
Unit 5 Lesson 2	Relations: Domain And Range	November 26	Al.F.1, Al.F.3	How do we find the domain and range of a relation?	Notetaking Guide, Notes, Mathweb Links	Relation	Homework, Class Observations, Technological Assessment
Unit 5 Lesson 3	Functions And Function Notation	November 28	Al.F.4	How do we determine if a relation is a function?	Notetaking Guide, Notes, Mathweb Links	Function	Homework, Class Observations, Technological Assessment

Unit 5 Lesson 4	More Practice With Functions	November 30	AI.F.4		Notetaking Guide, Notes, Mathweb Links		Homework, Class Observations, Technological Assessment, Tests, Timings
Unit 5 Lesson 5	Function Word Problems, Constant Rates of Change	December 4	Al.DS.3, Al.L.5	How do we translate real-world problems into functions? How do we interpret the rate of change of a mathematical problem in real-world terms?	Notetaking Guide, Notes, Mathweb Links	Rate of change	Homework, Class Observations, Technological Assessment
Unit 5 Lesson 6	Graphical Representations Of Functions, Independent And Dependent Variables	December 6	AI.F.2	How do we graph functions? Which of the variables are independent and which are dependent?	Notetaking Guide, Notes, Mathweb Links	Independent variable, dependent variable	Homework, Class Observations, Technological Assessment, Written Assessment
Unit 6 Lesson 1	Linear Function Definition, Plotting Points And Verifying With A Graphing Calculator	January 10	AI.L.4, AI.L.5	How do we use a graphing calculator to plot points and draw a line?	Notetaking Guide, Notes, Mathweb Links	Linear function	Homework, Class Observations, Technological Assessment
Unit 6 Lesson 2	Slope	January 14	AI.L.4, AI.L.5	How do we calculate and interpret slope?	Notetaking Guide, Notes, Mathweb Links	Slope	Homework, Class Observations, Technological Assessment
Unit 6 Lesson 3	Graphing A Line Given A Point And A Slope, Slope Intercept Form Of A Linear Function	January 16	AI.L.6	How do we graph a line given the a point on the line and its slope?	Notetaking Guide, Notes, Mathweb Links	Slope-intercept form	Homework, Class Observations, Technological Assessment
Unit 6 Lesson 4	Converting Linear Functions To Slope Intercept Form, Verifying Solutions To Linear Equations	January 18	AI.L.6	How do we convert linear equations to slope-intercept form? How do we verify the solutions to linear equations?	Notetaking Guide, Notes, Mathweb Links		Homework, Class Observations, Technological Assessment
Unit 6 Lesson 5	Finding Function Rules Given Points In A Chart, Special Cases Of Linear Functions	January 22	AI.L.6	How do we find function rules given points in a table or chart?	Notetaking Guide, Notes, Mathweb Links		Homework, Class Observations, Technological Assessment
Unit 6 Lesson 6	Putting It All Together - Interpreting Linear Graphs	January 28	Al.PS.8	How do we interpret linear graphs in various real-world contexts?	Notetaking Guide, Notes, Mathweb Links		Homework, Class Observations, Technological Assessment
Unit 6 Lesson 7	Comparing Linear Graphs Using A Graphing Calculator, Evaluating Linear Functions With A Calculator	February 4	AI.SEI.4	How can we evaluate and compare linear functions using a graphing calculator?	Notetaking Guide, Notes, Mathweb Links		Homework, Class Observations, Technological Assessment, Written Assessment

Unit 7 Lesson 1	Writing The Equation Of A Line Given The Slope And One Other Piece Of Information	February 12	AI.L.6	How do we write the equation of a line given the slope and another piece of information?	Notetaking Guide, Notes, Mathweb Links		Homework, Class Observations, Technological Assessment, Tests, Timings
Unit 7 Lesson 2	Writing The Equation Of A Line Given Two Points, Writing The Equations Of Horizontal And Vertical Lines	February 14	AI.L.6	How do we write the equation of a line given two points? What is the equation of a vertical line? What is the equation of a horizontal line?	Notetaking Guide, Notes, Mathweb Links	Horizonal line, Vertical line	Homework, Class Observations, Technological Assessment
Unit 7 Lesson 3	Perpendicular And Parallel Lines	February 20	AI.L.6	How do we find the equations of parallel and perpendicular lines?	Notetaking Guide, Notes, Mathweb Links	Parallel lines, perpendicular lines	Homework, Class Observations, Technological Assessment
Unit 7 Lesson 4	Linear Function Word Problems, Calculator Tables	February 25	AI.L.2, AI.L.6	How can we use linear functions to model real-world problems?	Notetaking Guide, Notes, Mathweb Links		Homework, Class Observations, Technological Assessment, Written Assessment
Unit 8 Lesson 1	Manuel Scatter Plots, Correlation	March 5	AI.L.4, AI.L.5	How can we determine the type of correlation between two variables?	Notetaking Guide, Notes, Mathweb Links	Scatter plot, correlation	Homework, Class Observations, Technological Assessment
Unit 8 Lesson 2	Scatter Plots In Linear Regression On A Graphing Calculator	March 7	AI.L.4, AI.L.5, AI.DS.3	How do we perform linear regression on a set of data using a graphing calculator?	Notetaking Guide, Notes, Mathweb Links	Linear regression	Homework, Class Observations, Technological Assessment
Unit 8 Lesson 3	Interpretation Of Linear Data Using A Graphing Calculator	March 11	AI.L.4, AI.L.5, AI.DS.2	How can we use a graphing calculator to interpret linear data?	Notetaking Guide, Notes, Mathweb Links		Homework, Class Observations, Technological Assessment, Written Assessment
Unit 9 Lesson 1	The Meaning Of The Solution To A System Of Linear Equations	March 19	AI.PS.2, AI.SEI.3	How do we interpret the solution to a system of linear equations?	Notetaking Guide, Notes, Mathweb Links	System of equations	Homework, Class Observations, Technological Assessment
Unit 9 Lesson 2	Solving Two Linear Equations By Graphing	March 21	AI.PS.2, AI.SEI.3	How do we solve a system of two linear equations by graphing?	Notetaking Guide, Notes, Mathweb Links	Graphing method	Homework, Class Observations, Technological Assessment
Unit 9 Lesson 3	Solving Two Linear Equations By Substitution	April 1	AI.PS.2, AI.SEI.3	How do we solve a system of two linear equations by substitution?	Notetaking Guide, Notes, Mathweb Links	Substitution method	Homework, Class Observations, Technological Assessment

Unit 9 Lesson 4	Solving Two Linear Equations By Elimination	April 3	Al.PS.2, Al.SEI.3	How do we solve a system of two linear equations by elimination?	Notetaking Guide, Notes, Mathweb Links	Elimination method	Homework, Class Observations, Technological Assessment, Tests, Timings
Unit 9 Lesson 5	Graphing Calculator Solutions Of Linear Systems	April 5	Al.PS.2, Al.SEI.3	How do we use a graphing calculator to solve a system of two equations?	Notetaking Guide, Notes, Mathweb Links		Homework, Class Observations, Technological Assessment
Unit 9 Lesson 6	Solving For 2 Variables In Word Problems	April 9	Al.PS.2, Al.SEI.3	How do we solve real-world problems using systems of equations?	Notetaking Guide, Notes, Mathweb Links		Homework, Class Observations, Technological Assessment, Written Assessment
Unit 10 Lesson 1	Direct Variation	April 17	Al.L.4	How do we model real-world problems using direct variation?	Notetaking Guide, Notes, Mathweb Links	Direct variation	Homework, Class Observations, Technological Assessment
Unit 10 Lesson 2	Indirect (Inverse) Variation	April 22	Al.L.4	How do we model real-world problems using indirect variation? How do we distinguish between direct and indirect variation? How can we tell which type of variation is at work given a set of data?	Notetaking Guide, Notes, Mathweb Links	Inverse variation	Homework, Class Observations, Technological Assessment, Written Assessment