

GLENCOE CORRELATION
MATH OF MONEY WITH ALGEBRA
and *EXTENSION ACTIVITIES*
OKLAHOMA
Priority Academic Student Skills
Mathematics Content Standards
Algebra 1

CONTENT STANDARDS	PAGE REFERENCES
Standard 1: Number Sense and Algebraic Operations - The student will use expressions and equations to model number relationships.	
1. Translate word phrases and sentences into expressions and equations and vice versa.	SE: 171-172, 174-177 <i>Algebra Review</i> 153, 501 <i>Extension Activities:</i> 23, 24 #5, #6, 26 #1, #2
2. Expressions	
a. Use the laws of exponents to perform operations on expressions with integer exponents.	SE: 107 <i>Algebra Refresher</i> 183 <i>Algebra Review</i> 105 <i>Extension Activities:</i> 16, exponents on 19, 31
b. Simplify and evaluate linear, absolute value, rational and radical expressions.	SE: <i>Algebra Refresher</i> 581, 617 <i>Algebra Review</i> 410, 436, 466
c. Simplify polynomials by adding, subtracting or multiplying.	SE: <i>Algebra Refresher</i> 89, 531 <i>Algebra Review</i> 25
Standard 2: Relations and Functions - The student will use relations and functions to model number relationships.	
1. Relations and Functions	
a. Distinguish between linear and nonlinear data.	SE: Linear regression data is covered on pages 383-385, 392-393, 396, 537-542, 598 ex 4 <i>Extension Activities:</i> Linear relationships 67, 98, 101
b. Distinguish between relations and functions.	SE: Function examples on 154-160, 169-177, 255 <i>Algebra Refresher</i> 241#11, #12 <i>Algebra Review</i> 254 #3, #4
c. Identify dependent and independent variables, domain and range.	SE: Domain and range are covered: <i>Algebra Refresher</i> 241#9, #10 <i>Algebra Review</i> 254 #1, #2
d. Evaluate a function using tables, equations or graphs.	SE: Function examples on 154-160, 169-177 Evaluation functions are covered: <i>Algebra Refresher</i> 497, 531#13-#16 <i>Algebra Review</i> 421
2. Recognize the parent graph of the functions $y = k$, $y = x$, $y = x $, and predict the effects of transformations on the parent graph (e.g., $y = x + 2$, change slope, change intercepts, change slope and intercept).	SE: <i>Algebra Refresher</i> 497 TAE: E 164
3. Calculate the slope of a line using a graph, an equation, two points or a set of data points.	SE: 171-177 <i>Algebra Refresher</i> 131, 497 <i>Algebra Review</i> 162 <i>Extension Activities:</i> 77 #3, #4

CONTENT STANDARDS	PAGE REFERENCES
4. Develop the equation of a line and graph linear relationships given the following:	
a. slope and y-intercept	SE: 171-177 <i>Algebra Refresher</i> 131 <i>Algebra Review</i> 162, 168 <i>Extension Activities</i> : 89 #6
b. slope and one point on the line	See Glencoe's <i>Algebra 1</i> Lesson 5-1.
c. two points on the line	SE: <i>Algebra Review</i> 66, 136, 596 #5, #6, 623 #9-#10 <i>Extension Activities</i> : 24, 89, 93
d. x-intercept and y-intercept	SE: Y-intercept is covered in <i>Algebra Refresher</i> 497 <i>Extension Activities</i> : Y-intercept is covered on page 101 #4
e. a set of data points.	SE: 537-542, 597-601 <i>Algebra Review</i> 66, 136 <i>Extension Activities</i> : 89, 93 #1-#3, 98, 101
5. Slope Interpretation	
a. Use the slope to differentiate between lines that are parallel, perpendicular, horizontal, or vertical.	SE: <i>Algebra Refresher</i> 497 #1
b. Interpret the slope and intercepts within the context of everyday life (e.g., telephone charges based on base rate [y-intercept] plus rate per minute [slope]).	SE: <i>Algebra Refresher</i> 136 #9 TAE: R 364 <i>Extension Activities</i> : 24
6. Linear Equations and Inequalities	
a. Solve linear equations by graphing or using properties of equality.	SE: <i>Algebra Refresher</i> 1 <i>Algebra Review</i> 25, 74, 145, 362, 486, 536, 560, 569 <i>Extension Activities</i> 72
b. Solve linear inequalities by graphing or using properties of inequalities.	SE: 169-172 <i>Algebra Refresher</i> 130, 617 <i>Algebra Review</i> 168 #5-#7 <i>Extension Activities</i> : 25, 30 #2-#6
c. Match appropriate equations or inequalities (with 1 or 2 variables) to a graph, table, or situation and vice versa.	SE: <i>Algebra Review</i> 380 <i>Extension Activities</i> : Matching graphs are found on pages 80 and 89.
7. Solve a system of linear equations by graphing, substitution or elimination.	SE: 30-33, 163-166, 169-177, 480-483 <i>Algebra Refresher</i> 49, 168 <i>Algebra Review</i> 162, 168 TAE: E 30 F 163
8. Problem Solving	
a. Use the formulas from measurable attributes of geometric models (perimeter, circumference, area and volume), science, and statistics to solve problems within an algebraic context.	SE: Using formulas to solve problems is found on pages 107-113, 331-338, 344-349 <i>Algebra Review</i> 324 <i>Extension Activities</i> : 2, 59

CONTENT STANDARDS	PAGE REFERENCES
b. Solve two-step and three-step problems using concepts such as rules of exponents, probability, rate, distance, ratio and proportion, measures of central tendency and percent.	SE: 17, Probability 332, 390, 456 Probability is found in <i>Algebra Refresher</i> 317, 451 <i>Algebra Review</i> 15, 282, 303 <i>Extension Activities</i> : 58, 64
Standard 3: Data Analysis and Statistics - The student will use data analysis and statistics to formulate and justify predictions from a set of data.	
1. Data Analysis	
a. Translate from one representation of data to another and understand the data can be represented using a variety of tables, graphs, or symbols and that different modes of representation often convey different messages.	SE: Graphs and graphing are found on pages 98-101, 162, 383-387, 392-396 <i>Extension Activities</i> : 23, Graphs and graphing are found on page 108.
b. Make valid inferences, predictions, and/or arguments based on data from graphs, tables, and charts.	SE: 305-309, 365 <i>Extension Activities</i> : 37, 76, 102, 107 #14
2. Collect data involving two variables and display on a scatter plot; interpret results using a linear model/equation and identify whether the model/equation is a line of best fit for the data (e.g., given a scatter plot and several linear equations, which one is the best fit?).	SE: Scatter plots and line of best fit are covered on pages 383-387 <i>Algebra Refresher</i> 355 <i>Algebra Review</i> 381 <i>Extension Activities</i> : 67, 98, 101

Codes Used for TAE Pages

E	Enrichment
F	Focus
R	Reteaching