

**NAME \_\_\_\_\_ DATE \_\_\_\_\_**

1ST9WKS \_\_\_\_\_ 2ND9WKS \_\_\_\_\_

**ALGEBRA 1 - STANDARDS BASED GRADE SHEET**

3RD9WKS \_\_\_\_\_ 4TH9WKS \_\_\_\_\_

*“The purpose of this report is to communicate current information to parents and students on student progress in achieving skills which promote learning.”*

**PART I: ESSENTIAL SKILLS**

In mathematics, a depth of knowledge is essential for students to be able to progress to the next level. The following chart is an explanation of the depth of knowledge levels and to the right shows your child’s depth of knowledge on the **essential skills** taught in this course.

<b>DEPTH OF KNOWLEDGE (DOK)</b>	<b>EXPLANATION</b>
<i>Level 3: Strategic Thinking</i>	At this level of complexity, students must use planning and evidence with higher order thinking processes that are more abstract. Tasks can include multiple valid responses where students must justify their choices.
<i>Level 2: Skills and Concepts</i>	At this level, a student must make some decisions about his or her approach. The tasks require working with or applying skills with more than one mental step such as comparing, organizing, summarizing, predicting, and estimating..
<i>Level 1: Recall and Reproduction</i>	Tasks at this level require recall of facts or rote application of simple procedures. The task does not require any cognitive effort beyond remembering the right response or formula.
<i>Level 0: Insufficient Understanding</i>	At this level, a student cannot show a sufficient level of understanding of simple procedures.

ADDITIONAL COMMENTS:

<b>Semester</b>	<b>ESSENTIAL SKILLS</b>	<b>DOK LEVEL</b>
1st	1. I can compare basic characteristics between linear, exponential, and quadratic functions.	
	2. I can identify the key characteristics of a linear function.	
	3. I can interpret a linear model in context.	
	4. I can solve systems of linear equations algebraically.	
	5. I can write arithmetic and geometric equations.	
2nd	6. I can add, subtract, multiply, and divide radical expressions.	
	7. I can identify the key characteristics of an exponential function.	
	8. I can interpret an exponential model in context.	
	9. I can identify the key characteristics of a quadratic function.	
	10. I can solve simple quadratic equations.	
	<i>NOTE: This time is also spent reviewing all standards to prepare for the ACTAspire Exam.</i>	

## PART II: GRADE LEVEL SKILLS

The following shows your child's ability to achieve success (explained in the table below) on the **grade level skills** taught in this course.

<b>LEVEL OF SUCCESS</b>	<b>EXPLANATION</b>
<i>Level 4</i>	Exceeding the skill
<i>Level 3</i>	Meeting the skill
<i>Level 2</i>	Progressing toward the skill
<i>Level 1</i>	Not meeting the skill
<i>Level 0</i>	Nothing done to demonstrate learning of the skill

<b>Semester</b>	<b>GRADE LEVEL SKILLS</b>	<b>LEVEL OF SUCCESS</b>
1st	1. I can explain operations with rational and irrational numbers.	
	2. I can add, subtract, and multiply rational expressions.	
	3. I can add, subtract, and multiply polynomials..	
	4. I can create and use one variable linear equations and inequalities.	
	5. I can solve linear equations, inequalities, and absolute value equations in one variable.	
	6. I can rearrange literal equations.	
	7. I can sketch a linear graph given key characteristics.	
	8. I can calculate the average rate of change over a specified interval from a linear function.	
	9. I can create and graph linear equations/functions in two variables.	
	10. I can explain the transformation of a linear function.	
	11. I can solve linear systems of equations and two-variable inequalities graphically.	
	12. I can recognize that sequences are functions.	

2nd	13. I can distinguish and compare linear versus exponential situations.	
	14. I can solve radical exponential equations.	
	15. I can sketch an exponential graph given key characteristics.	
	16. I can calculate the average rate of change over a specified interval from an exponential function.	
	17. I can create and graph exponential equations/functions in two variables.	
	18. I can explain the transformation of an exponential function.	
	19. I can solve linear and nonlinear (exponential) systems of equations graphically.	
	20. I can solve radical and rational equations.	
	21. I can explain the transformation of a quadratic function.	
	22. I can sketch a quadratic graph given key characteristics.	
	23. I can calculate the average rate of change over a specified interval from a quadratic function.	
	24. I can create and graph quadratic equations/functions in two variables.	
25. I can prove the sum and difference of squares.		
26. I can solve linear and nonlinear (quadratic) systems of equations graphically and algebraically.		
27. I can use statistics to compare and interpret median, mean, shape, spread, and trends of two or more sets of data.		
28. I can represent and describe data on a scatter plot using a function, line of best fit, and correlation coefficient.		
<i>NOTE: This time is also spent reviewing all standards to prepare for the ACTAspire Exam.</i>		

ADDITIONAL COMMENTS: