

# MASTERY OF LEARNING: CONCEPTS

<u>Concept</u> <u>Quiz</u> <u>Scores</u>	<u>Mastery Level</u>		
10 - 9	<b>HIGH ACHIEVING</b>	<b>4</b>	<i>Student demonstrates mastery/understanding of the concept and is able to apply it at a high level.</i>
8.5 - 7	<b>PROFICIENT</b>	<b>3</b>	<i>Student demonstrates mastery/understanding of the concept &amp; can apply it in nearly all cases given.</i>
6.5 - 5	<b>PROGRESSING</b>	<b>2</b>	<i>Student demonstrates some mastery/understanding of the concept however is unable to always apply it.</i>
4.5-2.5	<b>BEGINNING</b>	<b>1</b>	<i>Student demonstrates little mastery/understanding of the concept &amp; has great difficulty in applying it.</i>
2 - 0	<b>INCOMPLETE</b>	<b>0</b>	<i>Student shows no evidence of mastery/understanding the concept.</i>

#	<u>Concept (description)</u>	<u>Date Taken</u>	<u>Mastery Level</u>	<u>Graph</u>			
				1	2	3	4
1	Simplify expressions using order of operations						
2	Evaluate expressions						
3	Translate words into expressions and equations						
4	Compare real numbers						
5	Find opposites and use absolute values						
6	Addition of real numbers						
7	Subtraction of real numbers						
8	Multiplication of real numbers						
9	Division of real numbers						
10	Solve one-step equations by addition or subtraction						
11	Solve one-step equations by multiplication or division						
12	Solve multiple step equations						
13	Solve equations with variables on both sides						
14	Identify and properly use properties of algebra						
15	Write equations from a scenario to solve problems						
16	Write and simplify expressions in exponential form						
17	Add & subtract polynomials						
18	Multiply with monomials						
19	Multiply with polynomials						
20	Rewrite formulas						
21	Problem solve with rates and area						
22	Simplify rational monomials and polynomials						
23	Factor binomials						
24	Factor trinomials						
25	Factor by grouping						

#	<u>Concept (description)</u>	<u>Date Taken</u>	<u>Mastery</u>	<u>Graph</u>
---	------------------------------	-------------------	----------------	--------------

#	<u>Concept / description</u>	<u>Page Range</u>	<u>Level</u>	1	2	3	4
26	Solve equations by factoring						
27	Solve problems using factoring						
28	Simplify rational expressions						
29	Multiply rational expressions						
30	Divide rational expressions						
31	Add rational expressions						
32	Subtract rational expressions						
33	Long division of polynomials						
34	Write and simplify ratios						
35	Write and solve proportions						
36	Solve equations with fractions						
37	Solve equations with percents						
38	Solve various ideas with fractional equations						
39	Use negative exponents						
40	Find solutions to equations with two variables						
41	Identify points and use them to graph lines						
42	Find the slope of a line						
43	Write and graph an equation of a line in slope-intercept form						
44	Find the equation of a line parallel and perpendicular						
45	Evaluate a function						
46	Solve a system of equations by graphing						
47	Solve a system of equations by substitution						
48	Solve a system of equations by cancellation of variables						
49	Solve problems with systems of equations						
50	Solve inequalities						
51	Solve combined inequalities						
52	Use absolute value with inequalities						
53	Graph linear inequalities						
54	Graph a system of linear inequalities						
55	Simplify radical expressions						
56	Simplify radical expressions by multiplication and division						
57	Simplify radical expressions by addition and subtraction						
58	Use the Pythagorean Theorem						
59	Use the midpoint and distance formulas						
60	Solve quadratic equations						