

CONCEPT CHECKLIST – Algebra 3

(NAME)

#	Concept	NV Standard	(1)	(2)	(3)	(4)	(5)	Initials
1	Write Linear equations from 2 points	2.12.5, 4.12.5						
2	Graph Linear equations	2.12.5						
3	Write equations parallel & perpendicular to given equations	2.12.6, 4.12.5						
4	Solve & graph absolute value equations	2.12.4						
5	Graph inequalities in 2 variables	2.12.4						
6	Solve inequalities & compound inequalities	2.12.4						
7	Identify Direct, Joint & Inverse variation problems	4.12.5						
8	Solve Direct, Joint & Inverse variation problems	4.12.5						
9	Evaluate Expressions	2.12.3						
10	Find Domain and Range of functions	2.12.4						
11	Find Composition of functions	2.12.2, 2.12.4						
12	Find Inverse of functions	2.12.2, 2.12.4						
13	Solve systems of equations algebraically	2.12.5						
14	Find roots and type of roots in quadratic equations	2.12.6						
15	Factor quadratic equations of the form $ax^2 + bx + c = 0$, where $a = 1$	2.12.6						
16	Factor quadratic equations of the form $ax^2 + bx + c = 0$, including $a > 1$	2.12.6						
17	Perform operations on complex numbers	2.12.6						
18	Properties of exponents	1.12.7						
19	Properties of logarithms	1.12.7, 2.12.2						
20	Solve logarithmic equations	2.12.3						
21	Solve exponential equations	2.12.3						
22	Perform operations on matrices	1.12.7						
23	Find inverse & determinant of matrices	1.12.7						
24	Solve systems of 3 equations with matrices	1.12.7						

CONCEPT CHECKLIST – Algebra 4

(NAME)

#	Concept	NV Standard	(1)	(2)	(3)	(4)	(5)	Initials
1	Evaluate and perform operations on polynomial expressions	2.12.3						
2	Classify polynomials and find the zeros by factoring or graphing	2.12.3						
3	Use synthetic division to solve a polynomial equation							
4	Solve a polynomial equation through graphing, factoring and synthetic division							
5	Identify the conic section by its equation							
6	Complete the square for 1 and 2 variable problems							
7	Give all information of a parabola from the equation or graph							
8	Give all information of a circle from the equation or graph							
9	Give all information of an ellipse from the equation or graph							
10	Give all information of a hyperbola from the equation or graph							
11	Find the equation of the conic section from the expanded equation							
12	Find the experimental probability with and without replacement	5.12.5						
13	Find the theoretical probability with and without replacement	5.12.5						
14	Correctly use permutations	5.12.4						
15	Correctly use combinations	5.12.4						
16	Use combinations to find probabilities	5.12.5						
17	Factor and simplify rational expressions							
18	Add and subtract rational expressions							
19	Multiply and divide rational expressions							
20	Solve rational equations							
21	Simplify radical expressions							
22	Perform operations on radical expressions							
23	Solve radical equations							
24	Solve radical equations w/ 1 step radical removal							