

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 | | | | | | | |