

NTI Days 1-10

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Directions: Student should complete handout as assigned. Please email the instructor during the day to check in for class, and if you have any questions. The following topics are covered:

1. Linear Functions
 - a. Slope
 - b. Parallel and Perpendicular
2. Systems of Linear Equations and Multistep Equations
 - a. Elimination and Substitution Methods
3. Quadratic Functions
 - a. Discriminant
 - b. Complex Numbers
 - c. Roots/Zeros/Solutions
4. Angle Measurements
 - a. Adjacent and Linear Pairs
 - b. Parallel and Perpendicular Lines/Transversals
 - c. Angle Relationships
5. Segments, Midpoint, and Distance
 - a. Segment Length and Midpoint
 - b. Midpoint and Distance
6. Area, Circumference, and Volume
 - a. Circles, Parallelograms and Triangles
 - b. Cubes, Cones, Cylinders, and Spheres
7. Triangles
 - a. Angle Measurements
 - b. Sides/Legs and Hypotenuse
 - c. Pythagorean Theorem
8. Statistics
 - a. Mean, Median, and Mode
 - b. Quartiles and IQR
 - c. Standard Deviation
9. Probability
 - a. Combinations and Permutations
 - b. Probability of Events
10. Matrices
 - a. Adding and Subtracting Matrices
 - b. Scalar Multiplication and Matrix Multiplication
 - c. Discriminant and Finding Inverse Matrix