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**8th Grade Go Math PACING GUIDE**

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| **FIRST QUARTER** |
| **UNIT &** **Go Math Lessons** | **PACING** | **% of TNReady** | **TOPICS** |
| **Real Number System** | **2 weeks** | **16-24%** | * **Understand Rational and Irrational numbers.**
* **Choose a rational number or an irrational number from a list of numbers.**
* **Comparing and Ordering Rational Numbers**
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| **Integer Exponent Rules** | **2 weeks** | **16-24%** | * **Multiply exponents with like bases**
* **Divide exponents with like bases**
* **Raise a power to a power**
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| **Scientific Notation** | **2 weeks** | **16-24%** | * **Write numbers in Scientific Notation**
* **Write numbers from Scientific Notation to Standard Form**
* **Multiply/Divide Numbers in Scientific Notation**
* **Word Problems**
 |
| **Solving Equations** | **3 weeks**  | **16-24%** | * **Solve 1 and 2 step equations**
* **Solve equations with combine like terms/distributive property**
* **Solve multi-step equations with variables on both sides**
* **Determine the number of solutions that a multi-step equation will have**
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| **SECOND QUARTER** |
| **UNIT &** **Go Math Lessons** | **PACING** | **% of TNReady** | **TOPICS** |
| **Functions** | **8 weeks** | **16-24%** | * **Interpret a qualitative graph**
* **Is a relation a function?**
* **Complete and graph a function table**
* **Slope from a table, 2 points, a graph, or an equation**
* **Graph a linear equation**
* **Determine the equation of a line**
* **Compare multiple representations of function**
* **Linear vs. Non-linear**
* **Rewrite an equation in slope intercept form**
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| **Scatter Plots** | **1 week** | **27-35%** | * **Interpret data/line of best fit**
* **Linear vs non-linear**
* **Is the relationship positive or negative?**
* **Is the relationship strong or weak?**
* **Are there outliers?**
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| **THIRD QUARTER** |
| **UNIT &** **Go Math Lesson** | **PACING** | **% of TNReady** | **TOPICS** |
| **Systems of Equations**  | **4 weeks** | **16-24%** | * **Number of solutions**
* **Determine if an ordered pair is a solution**
* **Solve by graphing**
* **Solve by substitution**
* **Solve by elimination**
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| **Pythagorean Theorem**  | **3 weeks** | **27-35%** | * **Determine the measure of a missing leg**
* **Determine the measure of the hypotenuse**
* **Word problems**
* **Distance on a coordinate plane**
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| **Angle Relationships** | **2 weeks** | **27-35%** | * **Supplementary angles/vertical angles/corresponding angles/alternate interior and exterior angles/same side interior angles**
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| **FOURTH QUARTER** |
| **UNIT &** **Go Math Lesson** | **PACING** | **% of TNReady** | **TOPICS** |
| **Transformations** | **2 weeks** | **27-35%** | * **Translation**
* **Reflection**
* **Dilation**
* **Rotation**
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| **Volume of Curved Figures** | **2 weeks** | **27-35%** | * **Volume of Cylinder**
* **Volume of Cone**
* **Volume of Sphere**
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| **Compound Probability** | **1 Weeks** | **27-35%** | * **Probability of compound events**
* **Sample space from an organized list, tree diagram**
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\* Please see TN Department of Education – 8th Grade Math Blueprint for more details [(website)](https://www.tn.gov/content/dam/tn/education/documents/tnready_blueprints_math_grade_6-8.pdf)