8th Grade Math Pacing Guide  
Mr. Miller

**1st Quarter**

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| **Objective(s)** | **Topics** | **Length** |
| NC.8.G.3  NC.8.G 2  NC.8.G.4 | Transformations | 10 days |
| NC.8.NS.1 | Rational and Irrational Numbers | 6 days |
| NC.8.EE.1  NC.8.EE.2  NC.8.EE.3  NC.8.EE.4 | Integer Exponents  Scientific Notation | 10 days |
| NC.8.EE.7 | Solving Equations and Inequalities with one variable  Identify if equations have one, none or many solutions | 8 days |
| NC.8.F.1 | Understand function notation  Functions in graphs, tables and ordered pairs | 10 days |

**2nd Quarter**

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| **Objective(s)** | **Topics** | **Length** |
| NC.8.F.1 | Understand function notation  Functions in graphs, tables and ordered pairs | 10 days |
| NC.8.F.3  NC.8.F.4  NC.8.F.5 | Identify linear functions from tables, equations and graphs  Analyze functions that model linear relationships. Slope. Y=mx+b  Qualitatively analyze the functional relationship between two quantities | 25 days |
| NC.8.G.5 | Angle Relationships: interior and exterior angles of a triangle, angles created when parallel lines are cut by a transversal. | 8 days |

**3rd Quarter**

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| **Objective** | **Topics** | **Length** |
| NC.8.EE.8 | Analyze and solve systems of equations – graphing | 8 days |
| NC.8.F.2 | Compare properties of two linear functions each represented in a different way (algebraically, graphically, in a table or by descriptions) | 10 days |
| NC.8.SP1  NC.8.SP2  NC.8.SP3  NC.8.SP4 | Scatter plots  Line of best fit  Frequencies/Relative Frequencies  Two-way tables | 12 days |

**4th Quarter**

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| **Objective** | **Topics** | **Length** |
| NC.8.G.6  NC.8.G.7  NC.8.G.8  NC.8.G.9 | Pythagorean Theorem  Volume | 20 days |