8th Grade Math Pacing Guide
Mr. Miller

**1st Quarter**

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

**2nd Quarter**

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| **Objective(s)** | **Topics** | **Length** |
| NC.8.F.1 | Understand function notationFunctions in graphs, tables and ordered pairs | 10 days |
| NC.8.F.3NC.8.F.4NC.8.F.5 | Identify linear functions from tables, equations and graphsAnalyze functions that model linear relationships. Slope. Y=mx+bQualitatively 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.SP1NC.8.SP2NC.8.SP3NC.8.SP4 | Scatter plotsLine of best fitFrequencies/Relative FrequenciesTwo-way tables | 12 days |

**4th Quarter**

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