# CURRICULUM MAP GRADE 8
# NORTH SMITHFIELD SCHOOL DEPARTMENT

| UNIT | COMMON CORE CLUSTERS AND STANDARDS <br> [Curriculum Common Core Math Grade 8.docx](Curriculum Common Core Math Grade 8.docx) | MATHEMATICAL PRACTICE |
|---|---|---|
| **UNIT 1** <br><br> **Geometry** | • Understand congruence and similarity using physical models, transparencies, or geometry software.  8 .G.1, 2, 3, 4, 5 | <br><br> □ **Make sense of problems and persevere in solving them**. MP.1 |
| **UNIT 2** <br><br> **The Number System** | • Know that there are numbers that are not rational, and approximate them by rational numbers.  8 NS.1, 2 <br><br> • Work with radicals and integer exponents.   8.EE.1,3, 4 | □ Reason abstractly and quantitatively.  MP.2 |
| **UNIT 3** <br><br> **Fractions** | • Define, evaluate, and compare functions.   8.F.1,2,3 <br><br> • Investigate patterns of association in bivariate data.   8.SP.1 , 2, 3, 4 | □ Construct viable arguments and critique the reasoning of others. MP.3 |
| **UNIT 4** <br><br> **Equations** | • Understand the connections between proportional relationships, lines, and linear equations. 8.EE.5,6 <br><br> • Analyze and solve linear equations and pairs of simultaneous linear equations.  8.EE.7,8 <br><br> • Use functions to model relationships between quantities.  8.F.4,5 | □ **Model with mathematics**. ★  MP.4 |
| **UNIT 5** <br><br> **Geometry** | • Work with radicals and integer exponents 8.EE.2 <br><br> • Understand and apply the Pythagorean Theorem.    8.G.6,7,8 <br><br> • Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.    8.G. 9 | □ Use appropriate tools strategically.  MP.5 <br><br> □ Attend to precision. MP.6 <br><br> □ Look for and make use of structure.  MP.7 <br><br> □ Look for and express regularity in repeated reasoning.  MP.6 |

Major Content                    Supporting Content                    Additional Content