**8th Grade Math**

**Learning Goals**

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| **#** | **Learning Goal** | **Standard(s)** |
| 801 | Use rational approximates to compare and estimate expressions with irrational numbers | 8.NS.1.1, 8.NS.1.2 |
| 802 | Work with radicals and integer exponents. | 8.EE.1.1, 8.EE.1.2, |
| 803 | Apply integer exponents to perform operations involving scientific notation. | 8.EE.1.3, 8.EE.1.4 |
| 804 | Understand the connections between proportional relationships, lines, and linear equations. | 8.EE.2.5, 8.EE.2.6 |
| 805 | Solve linear equations with rational coefficients where there is one solution, infinitely many solutions, or no solution. | 8.EE.3.7 |
| 806 | Analyze and solve pairs of simultaneous linear equations. | 8.EE.3.8 |
| 807 | Define, evaluate, and compare functions. | 8.F.1.1, 8.F.1.2, 8.F.1.3 |
| 808 | Use functions to model relationships between quantities. | 8.F.2.4, 8.F.2.5 |
| 809 | Understand congruence using physical models, transparencies, or geometry software. | 8.G.1.1, 8.G.1.2 |
| 810 | Understand similarity using physical models, transparencies, or geometry software. | 8.G.1.3, 8.G.1.4 |
| 811 | Use informal arguments to establish facts about angle relationships with parallel lines, triangles, and polygons. | 8.G.1.5 |
| 812 | Understand and apply the Pythagorean Theorem. | 8.G.2.6, 8.G.2.7, 8.G.2.8 |
| 813 | Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres. | 8.G.3.9 |
| 814 | Investigate patterns of association in bivariate data. | 8.SP.1.1, 8.SP.1.2, 8.SP.1.3, 8.SP.1.4 |