ENRY LEARNING PROGRESSIONS

# 7th Grade Math

| Quarter 1 | | Quarter 2 | |
|---|---|---|---|
| **Unit 1** | **Unit 2** | **Unit 3** | **Unit 4** |
| *5 Weeks* | *5 Weeks* | *6 Weeks* | *4 Weeks* |
| Operations with Rational Numbers | Expressions and Equations | Ratios and Proportional Relationships | Geometry |
| Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.<br>MGSE7.NS.1<br>(Add & subtract rationals)<br>MGSE7.NS.1a<br>(Additive inverses)<br>MGSE7.NS.1b<br>(p+q as a distance)<br>MGSE7.NS.1c<br>(subtracting rationals)<br>MGSE7.NS.1d<br>(Properties with rationals)<br>MGSE7.NS.2<br>(Multiply & divide rationals)<br>MGSE7.NS.2a<br>(Distributive property)<br>MGSE7.NS.2b<br>(Dividing rationals)<br>MGSE7.NS.2c<br>(Properties with rationals)<br>MGSE7.NS.2d<br>(Convert a rational to a decimal)<br>MGSE7.NS.3<br>(Solve real-world problems) | Use properties of operations to generate equivalent expressions.<br>MGSE7.EE.1<br>(Properties of operations)<br>MGSE7.EE.2<br>(Equivalent expressions)<br>Solve real-life and mathematical problems using numerical and algebraic expressions and equations<br>MGSE7.EE.3<br>(Solve multi-step problems)<br>MGSE7.EE.4<br>(Construct equations & inequalities)<br>MGSE7.EE.4a<br>(Solve 2-step equations)<br>MGSE7.EE.4b<br>(Solve 2-step inequalities)<br>MGSE7.EE.4c<br>(Solve 1-step equations) | Analyze proportional relationships and use them to solve real-world and mathematical problems.<br>MGSE7.RP.1<br>(Unit rates)<br>MGSE7.RP.2<br>(Proportional relationships)<br>MGSE7.RP.2a<br>(Table & graphing)<br>MGSE7.RP.2b<br>(Constant of proportionality)<br>MGSE7.RP.2c<br>(Equations)<br>MGSE7.RP.2d<br>(Coordinates)<br>MGSE7.RP.3<br>(Percent problems)<br>Draw, construct, and describe geometrical figures and describe the relationships between them.<br>MGSE7.G.1<br>(Scale drawings) | Draw, construct, and describe geometrical figures and describe the relationships between them<br>MGSE7.G.2<br>(Geometric shapes)<br>MGSE7.G.3<br>(Cross-sections)<br>Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.<br>MGSE7.G.4<br>(Area & circumference)<br>MGSE7.G.5<br>(Angles)<br>MGSE7.G.6<br>(Area, volume & surface area) |

The Standards for Mathematical Practice are interwoven and should be addressed throughout the year in as many different units and tasks as possible in order to stress the natural connections that exist among mathematical topics.

ENRY LEARNING PROGRESSIONS

# 7th Grade
# Math

| Quarter 3 | | Quarter 4 |
|---|---|---|
| **Unit 5** | **Unit 6** | **Unit 7** |
| *5 Weeks* | *6 Weeks* | *5 Weeks* |
| **Inferences** | **Probability** | **All** |
| Use random sampling to draw inferences about a population.<br>MGSE7.SP.1<br>(Sampling & population)<br>MGSE7.SP.2<br>(Draw inferences)<br>Draw informal comparative inferences about two populations<br>MGSE7.SP.3<br>(Compare data)<br>MGSE7.SP.4<br>(Measures of center and variability to draw inferences) | Investigate chance processes and develop, use, and evaluate probability models.<br>MGSE7.SP.5<br>(Probability of an event)<br>MGSE7.SP.6<br>(Approximate probability)<br>MGSE7.SP.7<br>(Probability models with experimental & theoretical)<br>MGSE7.SP.7a<br>(Uniform models)<br>MGSE7.SP.7b<br>(Different models)<br>MGSE7.SP.8<br>(Compound events)<br>MGSE7.SP.8a<br>(Compound events)<br>MGSE7.SP.8b<br>(Sample space methods)<br>MGSE7.SP.8c<br>(Simulations) | 1 Week<br>Review of Standards<br><br>4 Weeks<br>Continue to provide data-driven, personalized enrichment experiences to meet the needs of learners. |

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