

UNIT/ ESSENTIAL QUESTION	APPROX. START TIME	APPROX. END TIME	TEXT(S)/RESOURCES	TARGETED UNDERSTANDING (PURPOSE)	CONTENT STANDARD(S) (CCSS for Mass.)	CONNECTED COMMON ASSESSMENT(S)
Number System: Decimals	Sept. 1	End of Sept.	<u>Prentice Hall Common Core Mathematics (7)</u> <u>Mathletics</u> software (3P Learning.com) Teacher created materials <u>ON CORE Mathematics (7)</u> (Houghton Mifflin Harcourt)	<ul style="list-style-type: none"> <li>Complete understanding of Place value</li> <li>Use Operations with decimals (+, -, x, ÷)</li> <li>Round decimals to appropriate place values</li> <li>Use the properties of numbers (Comm., Assoc., Distrib., Identity, Inverse) in problem solving</li> <li>Solve Real world applications</li> </ul>	CC. 5. NBT. 1-7 (review) CC.7.NS.1 CC.7.NS.2	
Ratio & Proportions	End of Sept	End of Oct	<u>Prentice Hall Common Core Mathematics (7)</u> <u>Mathletics</u> software (3P Learning.com) Teacher created materials <u>ON CORE Mathematics (7)</u> (Houghton Mifflin Harcourt)	<ul style="list-style-type: none"> <li>Express relationship of two quantities as a unit rate and use to solve problems</li> <li>Decide if two quantities are proportional based on tables, graphs, or equations</li> <li>Identify the constant of proportionality and use in problem solving</li> <li>Use proportional relationships to solve multi step ratio and percent problems and real world problems</li> </ul>	CC.7.RP.1 CC.7.RP. 2a,b,c,d CC.7.RP.3 CC.7.NS.3	
Number System: Fractions, percents	End of Oct.	Mid Dec.	<u>Prentice Hall Common Core Mathematics (7)</u> <u>Mathletics</u> software (3P Learning.com) Teacher created materials <u>ON CORE Mathematics (7)</u> (Houghton Mifflin Harcourt)	<ul style="list-style-type: none"> <li>Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.</li> <li>Use proportional relationships to solve multi step ratio and percent problems and real world problems</li> </ul>	CC.7.NS.1 a, b, c, d CC.7.NS.2 a, b, c, d CC.7.NS.3 CC.7.RP.1 CC.7.RP.3	
Number System: Integers, positive and negative rational numbers	Mid Dec.	Jan.	<u>Prentice Hall Common Core Mathematics (7)</u> <u>Mathletics</u> software (3P Learning.com) Teacher created materials <u>ON CORE Mathematics (7)</u> (Houghton Mifflin Harcourt)	<ul style="list-style-type: none"> <li>Apply and extend previous understandings of positive and negative rational numbers</li> <li>Compute (+, -, x, ÷) with positive and negative numbers</li> <li>Apply properties of rational numbers to real world problem solving</li> </ul>	CC.6.NS.5 (review) CC.6.NS.6 a, b, c (review) CC.6.NS.7 a, b, c, d (review)  CC.7.NS.1 a, b, c, d CC.7.NS.2 a, b, c, d CC.7.NS.3 CC.7.EE.3	

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Probability and Simulation “What are the chances?”	Mid Jan	Feb.	<u>Prentice Hall Common Core Mathematics (7)</u> <u>Mathletics</u> software (3P Learning.com) Teacher created materials <u>ON CORE Mathematics (7)</u> (Houghton Mifflin Harcourt)	<ul style="list-style-type: none"> <li>Define probability as the likelihood of an event using words and numbers from 0 to 1.</li> <li>Calculate both theoretical and experimental probabilities and compare</li> <li>Use real life observation to find experimental probabilities</li> <li>Find all outcomes in the sample space of a simple and compound event and find the probabilities</li> <li>Conduct trials of an experiment using randomly generated numbers</li> </ul>	CC.7.SP.5 CC.7.SP.6 CC.7.SP.7 a, b CC.7.SP.8 a, b, c	
Statistics : Populations and Sampling “What does the data say?”	Feb	Mid March	<u>Prentice Hall Common Core Mathematics (7)</u> <u>Mathletics</u> software (3P Learning.com) Teacher created materials <u>ON CORE Mathematics (7)</u> (Houghton Mifflin Harcourt)	<ul style="list-style-type: none"> <li>Find measures of central tendency and variability for data samples</li> <li>Use random sampling to draw inferences about a population</li> <li>Draw informal comparative inferences about two populations</li> </ul>	CC.7.SP.1 CC.7.SP.2 CC.7.SP.3 CC.7.SP.4	
Expressions and Equations: (Algebra)	Mid March	Mid April	<u>Prentice Hall Common Core Mathematics (7)</u> <u>Mathletics</u> software (3P Learning.com) Teacher created materials <u>ON CORE Mathematics (7)</u> (Houghton Mifflin Harcourt)	<ul style="list-style-type: none"> <li>Use proportional relationships to solve multi step ratio and percent problems and real world problems</li> <li>Apply properties of operations as strategies to add, subtract, factor and expand linear expressions with rational coefficients</li> <li>Solve multi step real world problems with both positive and neg. numbers in any form</li> <li>Solve multi step equations using properties</li> <li>Solve 1 and 2 step inequalities using properties</li> </ul>	CC.7.EE.1 CC.7.EE.2 CC.7.EE.3 CC.7.EE.4 a, b CC.7.EE.MA.4.c	
Geometry: Modeling, Circumference, Area, and Volume  <b>Integrated PBL Unit – “Discovering Geometry in our world”</b>	Mid April	May	<u>Prentice Hall Common Core Mathematics (7)</u> <u>Mathletics</u> software (3P Learning.com) Teacher created materials <u>ON CORE Mathematics (7)</u> (Houghton Mifflin Harcourt)	<ul style="list-style-type: none"> <li>Calculate actual measurements from a scale drawing</li> <li>Draw triangles given sets of angle or side conditions</li> <li>Identify figures formed by cross sections of 3-D figures</li> <li>Use facts about supplementary, complementary, vertical, and adjacent angles to write equations and solve problems</li> <li>Know formulas for area and circumference of a circle and solve problems</li> <li>Solve problems involving area, volume, and surface area of 2-D and 3-D objects including spheres.</li> </ul>	CC.7.G.1 CC.7.G.2 CC.7.G.3 CC.7.G.4 CC.7.G.5 CC.7.G.6 CC.7.G.MA.7	