

GRADE 6 MATH PROGRAM 2011-2012

Resources:

- Prentice Hall *Middle Grades Math-Tools for Success Course 1*
- Class notes and handouts

CALENDAR	MODULE/LESSONS	OBJECTIVES	PROJECTS/TESTS
<i>September</i>	Representing Data	<p>Students should be able to</p> <ul style="list-style-type: none"> • organize data in frequency tables and line plots; • solve problems with the use of a table and other strategies; • find mean, median, mode, range; • define an outlier; • organize data in a spreadsheet, read graph information and determine what graph is needed to represent data; • construct bar and line graphs; • recognize misleading graphs. 	PROGECT/ MID CHAPTER TEST/CHAPTER TEST
<i>October</i>	Geometry Concepts	<p>Students should be able to</p> <ul style="list-style-type: none"> • identify and work with points and lines; • estimate and measure angles; • draw angles; • construct congruent segments and angles; • identify triangles by their sides and angles; • define different polygons; • identify and classify quadrilaterals; • solve problems using logical reasoning; • determine whether figures are congruent or similar; • determine the lines of symmetry of a figure; • identify and work with parts of a circle; • name and draw tessellations. 	PROGECT/ MID CHAPTER TEST/CHAPTER TEST
<i>November - December</i>	Decimals	<p>Students should be able to</p> <ul style="list-style-type: none"> • determine place value of integers and decimals; 	PROGECT/ MID CHAPTER

		<ul style="list-style-type: none"> • write decimals in standard and expanded form; • compare and order decimals; • graph decimals on a number line; • model addition and subtraction of decimals; • use metric units of measurements; • determine the use of elapsed time. 	TEST/CHAPTER TEST
<i>January-February</i>		<p>Students should be able to</p> <ul style="list-style-type: none"> • estimate decimal products and quotients; • evaluate expressions using the order of operations; • use the distributive property; • multiply and divide decimals; • use decimals in real world situations. 	PROJECT/MID CHAPTER TEST/CHAPTER TEST
<i>March</i>	Patterns, Functions and Equations	<p>Students should be able to</p> <ul style="list-style-type: none"> • use exponents; • describe variables and evaluate variable expressions; • write variable expressions and word phrases; • make graphs from tables; • solve additions and subtractions equations; • solve multiplications and division equations. 	PROJECT/MID CHAPTER TEST/CHAPTER TEST
<i>March-April</i>	Fraction Concepts	<p>Students should be able to</p> <ul style="list-style-type: none"> • explore divisibility using mental math; • recognize and find prime factorization; • find GCF; • explore equivalent fractions; • estimate fractions; • express fractions in simplest form; • write mixed numbers and improper fractions; • find LCM; • compare and order fractions; • write fractions as decimals. 	PROJECT/MID CHAPTER TEST/CHAPTER TEST
<i>April</i>	Fraction Operations	<p>Students should be able to</p> <ul style="list-style-type: none"> • round fractions and mixed numbers; 	PROJECT/MID CHAPTER

		<ul style="list-style-type: none"> • add and subtract fractions with like denominators; • add and subtract fractions with unlike denominators; • add and subtract mixed numbers; • multiply and divide fractions and mixed numbers. 	TEST/CHAPTER TEST
<i>May</i>	Ratio, Proportion, Percent	Students should be able to <ul style="list-style-type: none"> • explore the meaning of ratio; • find equal ratios and unit rates; • solve proportions; model, convert and estimate percents. 	PROJECT/MID CHAPTER TEST/CHAPTER TEST
<i>June</i>	Integers and Coordinate Graphing	Students should be able to <ul style="list-style-type: none"> • graph integers on a number line; • compare and order integers; • model positive and negative integers; • model addition and subtraction of integers. 	PROJECT/MID CHAPTER TEST/CHAPTER TEST

QUIZZES: Depending on length of chapter and student responsiveness, quizzes may be done in the middle of a chapter to assess if students are assimilating concepts correctly.

STUDENT ASSESSMENT: Homework, class notebooks, tests/quizzes, activities, projects.

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