Teacher: Debbie Ochu

Grade Level: 7th-8th grade Special Education Math

Course: Math Course 2

Course Aims: To focus on the important concepts in Number Operations- multiplication/division of fractions & connecting ratio and rare of multiplication and division, Algebra- writing, interpreting, and using expressions and equations, & Measurement and Geometry- applying equations to problems involving areas and volumes.

Course Description:

Textbook:
Title: Mathematics Course 1 & Mathematics Course 2
ISBN: 978-0-13-372120-1 & 0-13-134001-8
Authors: Charles, Illingworth, McNemar, Mills, Ramirez, & Reeves
Publisher: Pearson Prentice Hall
Publication Date: 2010 & 2008

Assessment
There will be a minimum of 350 points scored each quarter. These points will be obtained from assignments, class participation notes, quizzes, chapter tests, and projects. The points will be distributed from each category from the range of percents given below.

Example
• Assignments 100%
• Participation/Notes 10%
• Quizzes/Tests 100%
• Projects 10%-15%

QUARTER: _____1st Quarter_____   COURSE: _____

Content	Assessment	Standards	Common Core	Essential Questions
Math Course 2 Book **1-2** Adding & Subtracting Decimals **1-3** Multiplying Decimals **1-4** Dividing Decimals **1-7** Adding & Subtracting Integers **1-8** Multiplying & Dividing Integers **1-6** Comparing & Ordering Integers ------------------------------------- **Math Course 2 Book** **3-2** Adding & Subtracting Fractions **3-3** Adding & Subtracting Mixed Numbers **3-4** Multiplying Fractions & Mixed Numbers **3-5** Dividing Fractions & Mixed Numbers	• 1-2 book problems • 1-3 book problems • 1-4 book problems • Quiz 1 1-2, 1-3, & 1-4 • 1-7 book problems • 1-8 book problems • 1-6 book problems • Test ------------------------------------- • 3-2 book problems • 3-3 book problems • 3-4 book problems • 3-5 book problems • Quiz		Number System 7.1b, 7.1c, 7.2b,7.2c ------------------------------------- Number System 7.1, 7.2	• Students will add, subtract, multiply, & divide decimals? • Students will add, subtract, multiply, & divide integers? • Students will compare and order integers and find the absolute values? ------------------------------------- • Students will add and subtract fractions to solve problems involving mixed numbers? • Students will multiply and divide fractions and mixed numbers to solve problems?

QUARTER: ____1st & 2nd _____   COURSE: _____

Content	Assessment	Standards	Common Core	Essential Questions
2-4 Comparing & Ordering Fractions **2-6** Fractions & Decimals ------------------------------------- **Math Course 2 Book** **1-9** Order of Operations and the Distributive Property **2-1** Exponents and Order of Operations --------------------------------------- **2ND QUARTER** **Math Course 2 Book** **4-1** Evaluating and Writing Algebraic Expressions **4-2** Using Number Sense to Solve Equations **4-3** Solving Equations by Adding or Subtracting **4-4** Solving Equations by Multiplying or Dividing **4-5** Exploring 2-Step Problems **4-6** Solving 2-Step Equations	• 2-4 book problems • 2-6 book problems • Test ----------------------------------- • 1-9 book problems and supplemental wksts • 2-1 book problems and supplemental wksts • Test ----------------------------------- • 4-1 book problems and supplemental wksts • 4-2 book problems and supplemental wkst • 4-3 book problems • 4-4 book problems • Quiz 1 4-3 & 4-4 • 4-5 book problems and supplemental wksts • 4-6 book problems and supplemental wksts		Number System 7.2d ---------------------------------- -- Number System 7.2a ---------------------------------- -- Expressions and Equations 7.1, 7.2, 7.3, 7.4, 7.4a, 7.4b	• Students will compare and order fractions? • Students will convert between fractions and decimals? -- • Students will use the order of operations and the distributive property to solve problems? • Students will write and simplify expressions with exponents? -- • Students will write and evaluate algebraic expressions? • Students will solve one-step equations using substitution, mental math, and estimation? • Students will solve equations by adding, subtracting, multiplying and dividing? • Students will write and evaluate expressions with two operations and to solve two-step equations using number sense?

QUARTER: _____1st _____   COURSE: _____

Content	Assessment	Standards	Common Core	Essential Questions
4-7 Graphing and Writing Inequalities **4-8** Solving Inequalities by Adding or Subtracting **4-9** Solving Inequalities by Multiplying or Dividing ------------------------------------- **Math Course 2 Book** **5-1** Ratios **5-2** Unit Rates and Proportional Reasoning **5-3** Proportions **5-4** Solving Proportions **5-5** Using Similar Figures **6-8** Finding Percent of Change **9-7** Simple and Compound Interest ------------------------------------- **Math Course 1 Book** **10-1** Tree Diagrams **10-2** Probability	• 4-7 book problems and supplemental wksts • 4-8 book problems and supplemental wksts • 4-9 book problems and supplemental wksts • Test ----------------------------------- • Book problems • Quiz 1 5-2, 5-3, & 5-4 • Test ----------------------------------- • Book problems • Supplemental wksts • Quiz 1 10-2 & 10-3		--------------------------------- Rations and Proportional Relationships 7.1, 7.2, 7.2a, 7.2b,7.2c, 7.2d, 7.3 --------------------------------- Statistics and Probability 7-3, 7.4, 7.5, 7.7a, 7.7b, 7.6, 7.8, 7.8a, 7.8c	• Students will graph and write algebraic inequalities? • Students will solve inequalities by adding, subtracting, multiplying, and dividing? --- • Students will write ratios and use them to compare quantities? • Students will find unit rate and unit costs using proportional reasoning? • Students will use proportions to find missing lengths in similar figures? • Students will find simple interest and compound interest? --- • Students will find the probability of an event and of is complement?

QUARTER: _____2nd_____   COURSE: _____

Content	Assessment	Standards	Common Core	Essential Questions
10-3 Experimental Probability **10-4** Making Predictions From Data **10-5** Independent Events **Math Course 2 Book** **12-3**Sample Spaces **12-4** Compound Events **5-3b** Hands-on Activity **Math Course 2 Book** **7-4b** Hands-on Activity				• Students will find experimental probability? • Students will make inferences using probability? • Students will find the probability of independent and dependent events?
-- **3RD QUARTER** **Math Course 2 Book** **7-1** Lines and Planes **7-2** Identifying and Classifying Angles **7-3** Triangles **7-4** Quadrilaterals and Other Polygons **7-5** Congruent Figures	-------------------------------- • Book problems • Supplemental wksts • Quiz 1 7-1 • Quiz 2 7-2 & 7-3 • Test		-------------------------------- Geometry 7.4,7.5, 7.6 --------------------------------	-- • Students will classify triangles and find the angel measures? • To identify congruent figures and use them to find missing measures? --

QUARTER: _____3rd _____   COURSE: _____Course 1_____

Content	Assessment	Standards	Common Core	Essential Questions
Math Course 1 Book **9-3** Perimeters and Areas of Rectangels 9-4 Areas of Parallelograms and Triangles **Math Course 2 Book** **8-3** Perimeters and Area of a Triangle **Math Course 1 Book** **9-5** Circles and Circumference **9-6** Area of a Circle **9-7** Three-Dimensional Figures and Spatial Reasoning **9-8** Surface Areas of Prisms **9-9** Volumes of Rectangular Prisms **9-10** Surface Areas and Volumes of Cylinders ---	• Book problems • Supplemental wksts • Quiz 1 9-3, 9-4, & 8-3 • Quiz 2 9-5 & 9-6 • Test ---		Geometry 7.4, 7.5, 7.6 -----------------------	• Students will solve problems involving perimeters and areas of rectangles, parallelograms, and triangles? • Students will identify parts of a circle and solve for area and circumference? • Students will identify three-dimensional figures? • Students will find the surface area of prisms, regular prisms, and cylinders? • Students will find the volume of rectangular prisms, & cylinders? --------------------------------------

QUARTER: ____4th_____   COURSE: _____

Content	Assessment	Standards	Common Core	Essential Questions
4TH QUARTER **Math Course 1 Book** **8-7** Line Symmetry **8-8** Transformations **Math Course 2 Book** **10-6** Line Symmetry and Reflection **10-7** Rotational Symmetry and Rotation **Math Course 1 Book** **8-8b** Tessellations Activity **Math Course 2 Book** **10-5a** Rotation Activity * Line Symmetry Activity ---	• Completed Projects & Activities • Quiz over material covered when finished with section ------------------------------------			• Students will identify and draw translations, reflections, lines of symmetry, and rotations? ---
Math Course 2 Book **10-1** Graphing Points in Four Quadrants **10-2** Graphing Linear Equations **10-3** Finding the Slope of a Line				• Students will name and graph points on a coordinate plane? • Students will find solutions to linear equations and graph them?

QUARTER: _____ 4th_____   COURSE: _____

Content	Assessment	Standards	Common Core	Essential Questions
10-4 Graphing Nonlinear Relationships -- **Activity/Class Project- Changing Units of Measure-Math Course 1** • Choosing an appropriate unit of measure- use examples to show comparison of the different units of weight, length, and capacity • Work on changing units from larger units to smaller units and smaller units to larger units, and renaming the units **Activity/Class Project-Converting Units to Metric System (Chap 9 Math Course 1)** • Metric units of length, mass, and capacity • Converting units in the metric system	----------------------- • Group activity students will work problems out from the book as a group. Students will be assessed on how well they do on the worksheet provided. • Students will have to bring in different objects showing units of measurement (weight, length, & capacity) • Short group activity to briefly introduce topic to students. • Hands on Activity lab			• Students will find the slope of a line and use it to solve problems? • Students will graph nonlinear relationships? --------------------------------- • Students will convert between units in the customary system? • Students will choose the appropriate unit in the customary system? • Students will use the metric units of measure and choose appropriate units of length, mass, and capacity? • Students will convert between metric measurements?