Math 7 Hybrid: Online Portion
Syllabus

Instructor Information
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Course Information
This course is the online component to your traditional Math 7 course. The purpose of this online portion of the course is to review remedial concepts and improve math vocabulary usage.

Resource Requirements
iPad: You will need your district issued iPad with school apps preloaded. Book: You will need your district issued login to our textbook available at www.bigideasmath.com

Instructor Communication
Class Announcements will be both written on the week overview on the side board in the traditional classroom and also uploaded into Haiku for your use. When you turn in virtual assignments please make sure that YOUR NAME: TITLE OF ASSIGNMENT is always at the top of your work.

Assignment Requirements
Discussion Board: Active participation in the discussion board is essential to your success in this course. Your initial post must be submitted no later than Wednesday at midnight, so your peers have an opportunity to respond. In order to receive full discussion credit, you must respond to two other initial postings and reply to those who comment on your post. Vocabulary Blog: Each module has vocabulary that needs to be uploaded to your blog. This is due the last day of a module. Vocabulary will need to be broken down into your own words and you must provide your own example of its meaning and usage. We will use Weebly to build a site and your "blog" will be one of these pages. Quizzes: Some quizzes will be used in Haiku Assessment. It is your responsibility to plan ahead and complete these assessments within the appropriate time frame. There are time limits on the questions and you will be allowed three attempts on quizzes. Late Assignments will be deducted the district maximum of a 15% penalty. If you do not complete work you will earn an incomplete for the course. This means that you will not move on to Math 8 without first finishing Math 7.

Course Outline

Module 1: Number Sets		
Week(s)	**Learning Objectives**	**Assessments/Assignments**
1-2	Students will perform addition, subtraction, multiplication, and division of whole numbers 0-10 without the aid of a calculator at 90% proficiency.	Quiz Portfolio Artifact
3	Students will create their own mnemonic device to remember the order of operations.	Disscussion Board Portfolio Artifact
4	Students will relate integer operations to financial situations.	Disscussion Board Portfolio Artifact
5-6	Students will breakdown key unit terms, writing a definition in their own words, and explain practical applications. (Key terms: Absolute Value, Additive Inverse, Integers, Opposites, Rational Number, Repeating Decimal, Terminating Decimal)	Blog Post

Module 2: Algebra		
Week(s)	**Learning Objectives**	**Assessments/Assignments**
7-8	Students will evaluate expressions, when values are given for all variables with 90% accuracy.	Quiz Portfolio Artifact
9	Students will translate a verbal expression into a mathematical (numerical) expression with 90% accuracy.	Quiz Portfolio Artifact
10-11	Students will demonstrate their understanding of combining like terms through writing or illustrating a story to add meaning.	Presentation
12	Students will justify solving equations and inequalities and clarify what is undoing.	Discussion Board Portfolio Artifact
13-14	Students will breakdown key unit terms, writing a definition in their own words, and explain practical applications. (Key terms: Addition Property of Equality, Division Property of Equality, Equality, Equivalent Equations, Factoring, Inequality, Like Terms, Linear Expression, Multiplication Property of Equality, Solution Set, Subtraction Property of Equality)	Blog Post

Module 3: Proportional Reasoning		
Week(s)	**Learning Objectives**	**Assessments/Assignments**
15	Students will simplify fractions, including proper, improper, and mixed numbers with 90% accuracy.	Quiz Portfolio Artifact
16	Students will solve one-step equations where division is the required operation with 90% accuracy.	Quiz Portfolio Artifact
17-18	Students will convert between number forms of fractions, decimals, and percents with 90% accuracy	Quiz Portfolio Artifact
19	Students will identify equivalent proportions and justify their reasoning using the rules of exchanging the means, taking the reciprocal, or adding multiples of the denominator.	Discussion Board Portfolio Artifact
20-21	Students will breakdown key unit terms, writing a definition in their own words, and explain practical applications. (Key terms: Complex Fraction, Constant of Proportion, Cross Products, Cross Products Property, Direct Variation, Discount, Interest, Markup, Percent of Change, Percent of Decrease, Percent Error, Percent of Increase, Principal, Proportion, Proportional, Rate, Ratio, Simple Interest, Slope, Unit Rate)	Blog Post

Module 4: Geometry		
Week(s)	**Learning Objectives**	**Assessments/Assignments**
22	Students will measure angles with a protractor and classify as acute, obtuse, right or straight with 90% accuracy.	Quiz Portfolio Artifact
23	Students will evaluate expressions with exponents (power 2 only) including expressions requiring order of operations with 90% accuracy.	Quiz Portfolio Artifact
24	Students will find volume of rectangular prisms, with unit cubes shown, with 90% accuracy.	Quiz Portfolio Artifact
25-27	Students will illustrate their understanding of geometric shapes in the real world, both 2D and 3D.	Presentation

| 28-29 | Students will breakdown key unit terms, writing a definition in their own words, and explain practical applications. (Key terms: Adjacent Angles, Center (of a circle), Circle, Circumference, Composite Figure, Complementary Angles, Congruent Angles, Congruent Sides, Diameter, Edge, Face, Kite, Net, Pi, Polyhedron, Prism, Pyramid, Radius (of a circle), Scale Drawing, Scale Factor, Semicircle, Solid, Supplementary Angles, Surface Area, Vertex, Vertical Angles, Volume) | Blog Post |

Module 5: Probability and Statistics		
Week(s)	**Learning Objectives**	**Assessments/Assignments**
30	Students will interpret real world situations and quantify accurately using a ratio.	Quiz Portfolio Artifact
31	Students will find measures of central tendency (mean, median, and mode) with 90% accuracy.	Quiz Portfolio Artifact
32-33	Students will demonstrate their understanding of coins, dice, and a deck of cards in terms of probability.	Disscussion Board Portfolio Artifact
34-35	Students will breakdown key unit terms, writing a definition in their own words, and explain practical applications. (Key terms: Biased Sample, Compound Events, Dependent Events, Event, Experiment, Experimental Probability, Favorable Outcomes, Fundamental Counting Principle, Independent Events, Outcomes, Population, Probability, Relative Frequency, Sample, Sample Space, Simulation, Theoretical Probability, Unbiased Sample)	Blog Post