



**Gifted LearningLinks Program  
Enrichment  
Course Syllabus Template**

**Instructor name: Kely Lewis  
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**Course Title: Pre-Algebra Preparation: Numbers & Algebraic Thinking**

**Session Date: Fall, Winter, Spring 2011-12**

**Course Description:**

Linked to the national core standards, this Pre-Algebra Preparation course provides a rigorous foundation in elementary mathematics. Through exploration, practice and application, students develop skills to deepen their understanding of mathematical ideas and apply them to real world settings. *Notes:* • Students may participate in any or all of these courses, beginning in any session. • Completion of all three (see 164, 165, 166) prepares students for Pre-Algebra(see courses 167-169).

**Outcomes:** Upon successful completion of this course, students will:

- Understand place value
- Understand how to estimate and round
- Understand how to manipulate numbers using the four basic operations: adding, subtracting, multiplying, and dividing
- Know the different properties of numbers
- Understand the basics of fractions
- Understanding how to add and subtract fractions with and without common denominators
- Understand how to multiply and divide fractions
- Understand the basics of decimals
- Understand how to manipulate decimals using the four basic operations: adding, subtracting, multiplying, and dividing
- Understand the basics of percents
- Understand how to convert between fractions, decimals, and percents
- Understand what an integer is and understand how to manipulate integers using the four basic operations: adding, subtracting, multiplying, and dividing
- Understand variables and expressions and how to manipulate them
- Understand how to simply problems involving the order of operations
- Understand how to solve one-step equations and inequalities

**Resources and Materials:**

*Envision Math* (Grade 6)  
 Author: Charles Edition: 2011  
 Publisher: Prentice Hall School Division  
 (Textbook is optional)

**Third Party Web Sites:**

While a staff member (which includes but is not limited to instructors, teaching assistants, residential staff, office staff) may use or refer students to third-party web sites for instructional purposes, s/he is required to review thoroughly any such web sites for inappropriate content before referencing them. This includes clicking on all links contained in any such web site, reviewing the materials contained on every page within a web site, and ensuring that the web site does not provide links to other inappropriate web sites. If there is any doubt about whether something is appropriate, a staff member is instructed to err on the side of caution and not use the web site or check with a CTD supervisor. If a referenced third-party web site is later determined to contain inappropriate content, the staff member may be subject to discipline.

**Schedule:**

	<b>Topic/Focus</b>	<b>Activities &amp; Reading Assignments</b>	<b>What do I need to complete on Blackboard?</b>
<b>Week 1</b>	Number Sense: Place Value, Number Sense, Estimation/Rounding, 4 Basic Operations, Properties of Numbers	Introduction videos/links Interactive Activity Independent Practice (optional) Math Journal Course Portfolio Test	Interactive Activity Math Journal Test
<b>Week 2</b>	Number Sense; Fraction Basics, Adding and Subtracting Fractions (with common denominator)	Introduction videos/links Interactive Activity Independent Practice (optional) Math Journal Course Portfolio Test	Interactive Activity Math Journal Test
<b>Week 3</b>	Number Sense: Adding and Subtracting Fractions (without common denominator), Multiplying and Dividing Fractions	Introduction videos/links Interactive Activity Independent Practice (optional) Math Journal Course Portfolio Test	Interactive Activity Math Journal Test

	<b>Topic/Focus</b>	<b>Activities &amp; Reading Assignments</b>	<b>What do I need to complete on Blackboard?</b>
<b>Week 4</b>	Number Sense: Decimals	Introduction videos/links Interactive Activity Independent Practice (optional) Math Journal Course Portfolio Test	Interactive Activity Math Journal Test
<b>Week 5</b>	Number Sense: Decimals, Fractions, Percents, and Integers	Introduction videos/links Interactive Activity Independent Practice (optional) Math Journal Course Portfolio Test	Interactive Activity Math Journal Test
<b>Week 6</b>	Algebraic Thinking: Variables, Expressions, and the Order of Operations	Introduction videos/links Interactive Activity Independent Practice (optional) Math Journal Course Portfolio Test	Interactive Activity Math Journal
<b>Week 7</b>	Algebraic Thinking: Solving One-Step Equations and Inequalities	Introduction videos/links Interactive Activity Independent Practice (optional) Math Journal Course Portfolio Test	Interactive Activity Math Journal Test
<b>Week 8</b>	Course Project	Math Journal Course Project	Math Journal Course Project
<b>Week 9</b>	Course Portfolio	Math Journal Course Portfolio	Math Journal Course Portfolio

**Student Evaluation and Grading Policies for Non-Credit Courses Only:**

Enrichment students will receive a final narrative evaluation after the course is complete.

**Instructor Biographical list:**

- 5 years teaching in-person and online courses 5<sup>th</sup> to higher education.
- Online course designer for two years

- Bachelor of Science in Secondary Mathematics from Louisiana State University, 2005
- Master of Science in Curriculum, Instruction, and Assessment from Walden University, 2009

**Contact Information:**

The best way to reach me is by email: xxx@xxx.xxx