

**Center for Talent Development
Northwestern University
Pre-Algebra Session Fall 2010
Gifted LearningLinks Program**

Course Title:

- a. *Pre-Algebra Condensed*
- b. *Book Required:*
 - a. McDougal Littell Pre-Algebra © 2008 ISBN/ISBN10 978-0-618-80076-6
0-618-80076-X

Course Description:

Areas of study include expressions, solving equations and inequalities, factors, fractions, rational expressions and equations, exponents, ratio, proportions, probability, percents, the coordinate system, and right triangle geometry. Problems are completed both independently and collaboratively. Students share ideas while looking for alternative ways to solve problems more efficiently or with more complexity, depending on the focus. This course provides a building block for Honors Algebra.

Outcomes:

Upon successful completion of this course, students will:

- a. *Explore pre-algebraic concepts that are tailored to individual student learning.*
- b. *Learn about algebra as it pertains to real-world applications.*
- c. *Explore solving linear equations.*
- d. *Explore graphing linear equations.*

Resources and Materials:

McDougal Littell: *Pre-Algebra*

http://www.classzone.com/cz/books/pre_alg/book_home.htm?state=MN

Instructors are required to thoroughly review any third-party web sites they intend to use in their courses for inappropriate content. However, because web content continuously changes, CTD disclaims any responsibility for any of the content contained on third-party web sites used in course materials. If you become aware of anything that may be inappropriate, please notify CTD staff immediately.

Student Evaluation and Grading Policies for Credit Courses Only:

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

Instructor Biography: *Mrs. Kafka received her Bachelor's Degree in Mathematics/Sociology from the Northern State University. She also completed her Masters Degree in Education at the University of St. Catherine, St. Paul, MN. Mrs. Kafka has been teaching for 33 years in a traditional face to face as well as*

online teaching for the past five years. This is her second year at the Center for Talent Development.

Contact Information:

- a. Email address: xxx@xxx.xxx
- b. Xxx-xxx-xxxx

Office Hours:

7-9pm CDT daily or by appointment

Schedule:

	Topic/Focus	Activities & Reading Assignments	What do I need to post to the Discussion Board?	What do I need to turn in?
Week 1	Orientation to Online Learning Variables, Expressions, Integers	Email with instructor, get familiar with the online environment Week 1 Document	Introduction Discussion	Survey Individual Student Assignment 1
Week 2	Solving Equations	Week 2 Document		Individual Student Assignment 2
Week 3	Multi-step equations, Inequalities	Week 3 Document		Individual Student Assignment 3
Week 4	Factors, Fractions, Exponents	Week 4 Document		Individual Student Assignment 4
Week 5	Rational numbers, Equations	Week 5 Document		Individual Student Assignment 5
Week 6	Ratio, Proportion, Probability	Week 6 Document		Individual Student Assignment 6
Week 7	Percents	Week 7 Document		Individual Student Assignment 7
Week 8	Linear Functions	Week 8 Document		Individual Student Assignment 8
Week 9	Right Triangles	Week 9 Document		Individual Student Assignment 9 Final