

1. Course and Grade Level

Grade Level: 6th Grade
Course: Extended Learning Mathematics

2. Course Description

In this sixth grade mathematics course, you will be provided with content that addresses the Indiana Academic Standards for math. You will use the exact same textbook that most 7th grade students use in their class. Therefore you are skipping our 6th grade math textbook. There will be a few instances where we will learn concepts not in our textbook that you have missed by skipping a book. A detailed description of content of this course can be seen in the section *Course Objectives* of this syllabus. This course will include homework assignments, quizzes, tests, projects, computer activities, etc.

3. Course Materials and Resources

Textbook: Glencoe Math Connects Course 2

Supply List

- ✓ ½ or 1 Inch 3-Ring Binder
- ✓ 3 Dividers (Assignment Sheet, Homework, Graded Papers)
- ✓ Notebook Paper (Not Spiral-Bound)
- ✓ Pencils (NO INK PENS ALLOWED!)
- ✓ Colored Pencils
- ✓ Two 100-Page Composition Books (Skills Review / Reference)

4. Course Objectives

Students that complete this course will at a minimum be able to:

- ✓ Evaluate expressions using order of operations
- ✓ Convert units using the metric or customary system
- ✓ Create and use a frequency table, line plot, bar graph, histogram, stem-and-leaf plot, and a box-and-whisker plot
- ✓ Find the mean, median, mode, and range
- ✓ Compare, order, add, subtract, multiply, and divide integers
- ✓ Plot points on a coordinate plane
- ✓ Find the absolute value of an integer
- ✓ Solve one and two step equations
- ✓ Solve inequalities
- ✓ Graph solutions of a linear equation
- ✓ Find the slope of a line
- ✓ Find the greatest common factor and least common multiple of 2 or more numbers
- ✓ Simplify fractions
- ✓ Convert fractions, decimals, and percents
- ✓ Add, subtract, multiply, and divide fractions and mixed numbers
- ✓ Simplify ratios
- ✓ Find rates and unit rates
- ✓ Solve proportions
- ✓ Find the percent of a number
- ✓ Solve and graph linear inequalities
- ✓ Solve literal equations
- ✓ Fundamental counting principle, combinations, permutations

4. Course Objectives Continued

- ✓ Find percent of change, sales tax, discount, and solve a simple interest equation
- ✓ Measure and identify angles
- ✓ Name triangles using its angles or sides
- ✓ Name quadrilaterals
- ✓ Identify polygons
- ✓ Find squares and square roots
- ✓ Use the Pythagorean theorem
- ✓ Find the area of parallelograms, triangles, trapezoids, and circles
- ✓ Find the surface area and volume of rectangular prisms and cylinders

5. Course Expectations

- Come to class prepared
 - Binder
 - Pencil (sharpened)
 - Textbook
 - Colored pencils
- Complete all homework assignments
- Participate (verbally and/or non-verbally)
- Follow classroom rules

6. Course Outline

1st 9-Weeks

Chapter 1: Introduction to Algebra and Functions

Chapter 2: Integers

Chapter 3: Algebra: Linear Equations and Functions

**Will include Beauty of Numbers project and GSP Project #1*

2nd 9-Weeks

Chapter 4: Fractions, Decimals, and Percents

Chapter 5: Applying Fractions

Chapter 6: Ratios and Proportions

**Will include GSP Project #2*

3rd 9-Weeks

Chapter 7: Applying Percent

**Will start and complete News Project*

Chapter 10: Geometry: Polygons

**Will include Constructions Project, Making Circle Graphs GSP Activity, and GSP Project #3*

Chapter 11: Measurement: Two- and Three-Dimensional Figures

4th 9-Weeks

Chapter 12: Geometry and Measurement

Chapter 8: Statistics: Analyzing Data

Chapter 9: Probability

**Will include a Probability Project*

7. Teaching Methods

A typical day in my classroom will include:

1. Problem solving exercise
2. Skills review
3. Discuss/check homework from previous day
4. Review concepts from previous day (projected review exercises)
5. Learn new concepts (direct instruction)
 - a. Take notes
 - b. Work several exercises using partner (cooperative learning)
6. Start on homework assignment
7. On Thursdays, we will complete math activities in the computer lab

Other days might include a quiz, test, math review games, computer activities, projects, etc.

8. Classroom Management Expectations

Classroom Rules

1. Be on time
2. Be prepared
3. Do not talk when I'm talking
4. Pay attention
5. Do not disturb others
6. No inappropriate behavior
7. Respect property of others
8. Be kind to others

Each student will begin with an "A" in conduct at the start of each nine weeks. The following sequence will be used to determine students' conduct grade: **AAABBBCCDDDF**

Consequences

- 1st Warning: Verbal warning
2nd Warning: Verbal warning
3rd Warning: A conduct mark will be given

If a student receives 2 conduct marks during the same class period, I retain the right to send a student to the office with a referral.

If problem(s) continue, the following consequences will occur:

- 1st Offense: Serve 1 day of lunch or after school detention
2nd Offense: Serve 1 day of lunch or after school detention (parent contacted)
3rd Offense: Student receives a referral and sent to the office

In the event of a severe disruption, a referral will be written and the student will be sent immediately to the office.

If a substitute teacher leaves a note with your name on it, you will automatically have lunch or after school detention.

9. Assistance Availability

If you need extra help for whatever reason, the best time to accomplish this is during your 5th period enrichment. The best time for parents to meet with me, if needed, is during 4th or 5th period.

10. Course Evaluation and Assessment Process

<u>Grading Scale</u>	
100%	A+
93-99	A
90-92	A-
87-89	B+
83-86	B
80-82	B-
77-79	C+
73-76	C
70-72	C-
67-69	D+
63-66	D
60-62	D-
0-59	F

Your grade is determined using points. The total amount of earned points is divided by the total amount of possible points. Approximately 40% of your grade is determined by tests, 35% quizzes, and 25% homework, projects, and activities. Your semester grade is determined by averaging the two 9-week grades from a particular semester.

11. Special Assessments

- ✓ Acuity Testing
- ✓ August – Mathematics Pre-Test
- ✓ March – ISTEP+
- ✓ April – ISTEP+
- ✓ May – Mathematics Post-Test

12. Grade Sheet

Everyone will be given a grade sheet and be expected to keep track of their grade. You will be given class time once a week to do this.

13. Website

You can visit my website at <http://www.mrhayden.com/>. On my website, you can find information about me, ways to contact me, links to math games, online video lessons, and much more.

I have a teacher webpage that is located at <http://ngsc.schoolfusion.us/>. Click on Schools, then Princeton Community Middle School, then PCMS Classroom Website, Grade 6, and finally click on my name.

14. Z.A.P. (Zeros Aren't Permitted)

Students that do not have homework completed or have submitted poor quality work will be given an opportunity to complete the work during lunch or after school on Fridays.