

CITY HONORS
Grade 6 Mathematics
Course Syllabus

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COURSE TITLE: Connected Mathematics 2 - Grade 7
International Baccalaureate Middle Years Programme (IB/MYP)

DESCRIPTION: The Sixth Grade Mathematics Program that City Honors utilizes is Connected Mathematics. The Connected Mathematics Project, (CMP), was developed specifically for the middle school grades in order to aid students' development and understanding of essential concepts, skills, procedures, and ability to think and reason in various areas such as: number, geometry, measurement, algebra, probability, and statistics. The Connected Mathematics Project is designed to meet all of the National Council of Teachers of Mathematics (NCTM) Standards for Curriculum and Evaluation as well as the New York State Mathematics Standards

This course will also encompass the International Baccalaureate Middle Years Programme philosophy of learning. MYP areas of interaction and assessments will be embedded into the investigations within each unit book where appropriate.

TEXT: The Connected Mathematics Project consists of six unit books. All of the books have been published by Prentice Hall.

SUPPLIES REQUIRED:

- 1 composition book (grid notebook recommended)
- 7 green folders (pocket and prongs) - (plastic folders are more durable but not required)
- Scientific Calculator (costs about \$10–15)
- 30 sheets of 8 ½ " x 11" astro-bright paper - (or plain white copy paper)

REQUIREMENTS: Students will be required to keep a math notebook. This will consist of the student's math folder and composition notebook. Students are expected to keep their vocabulary lists for the duration of the year.

Homework: Most homework assignments are checked daily as either complete or incomplete. This HW average will be averaged into the student's math grade at the end of each 10 weeks. **Late daily homework will not be accepted.**

An acceptable HW MUST have:

1. A proper and complete heading
2. All work done in pencil on loose-leaf paper
3. Each question copied and work shown, except when the question is all words, just show your work.
4. Your work is neat and spaced out – skip at least one blank line in between problems.
5. All graphs on graph paper.

WRITING: Writing is now becoming more important across the curriculum; therefore, writing will play a major role in this class. Students need to become fluent and proficient in speaking and writing using mathematical terms and symbols.

EXTRA HELP: Students will receive an extra Math class, (Math Lab), twice per six-day cycle. This extra class will focus on student limitations, homework assistance, hands-on enrichment activities, and practice and reinforcement. Students may come to me to schedule an appointment to make up missed work or for extra help. Transportation arrangements need to be made prior to the date of extra service.

EVALUATION: Grades will be based on student performance on a variety of assessments including: class work, homework assignments, quizzes, unit tests, journal entries, reflections, notebooks, projects, attitude, conduct, and class participation.

FINAL EXAM: Students will have a cumulative final exam worth 25% of the 4th marking period grade.

NYS TESTING: The NYS Test will take place in May. For more details and the testing schedule, visit <http://www.emsc.nysed.gov/osa/sched.html>.

TIMELINE:

This schedule is tentative and is subject to change at any time.

	MAJOR UNITS	UNIT CONCEPTS	GUIDING QUESTIONS	NYS STANDARDS	MYP AREAS OF INTERACTION
Sept. - Oct.	Variables & Patterns	Introducing Algebra; variables, tables, graphs, and symbols	How can mathematics be used to show how quantities change over time? What are variables? How are variables related?	7.S.1 7.S.3 7.A.7 7.S.6 7.A.6 7.A.8	Recognizing concepts and applying skills; applying problem-solving strategies(ATL) Investigating heart rates(HS)
Oct. – Dec.	Accentuate the Negative	Number and Operations; Understanding and using Integers	What situations in daily life can be represented by positive or negative numbers? How are the integers different from and alike ordinary numbers?	7.N.2 7.N.12 7.N.13	Recognizing concepts and applying skills; using concepts and skills(ATL)
Dec. - January	Filling & Wrapping	3-D Measurement	How do different lengths affect the surface area or volume of an object? How can you conceptualize surface area and volume differently?	7.G.3 7.G.4 7.M.11 7.A.6 7.G.2 7.M.2	Using measuring instruments (ATL, HI)
Jan.– March	What Do You Expect??	Probability and Expected Value	In what types of situations can probability be used to help make a decision? What techniques can be used to list all the possible outcomes?	7.S.1	Using concepts and skills(ATL)
March – April	Comparing & Scaling	Number; Rate, Ratio, Proportion, Percent and Proportional Reasoning	When quantities have different measurements, how can they be compared? How does rounding affect the numbers used in a ratio?	7.M.5 7.M.6	Using concepts and skills(ATL)
April – June	Moving Straight Ahead	Algebra; Linear Relationships	How can an equation express a relationship we see in the everyday world? What tools can be used to solve equations? What kinds of everyday problems can be solved by using mathematical tables and graphs?	7.A.7 7.A.10 7.A.8 7.A.2 7.A.4 8.M.1	Recognizing concepts and applying skills; developing problem-solving strategies(ATL)

Key to abbreviations:
EN: environments**ATL:** approaches to learning
CS: community and service**HS:** health and social education
HI: human ingenuity