Course summary

**General Math:** The lessons explore the basic numeric operations of addition, subtraction, multiplication, and division. It also covers reading, writing, ordering and comparing numbers as well as patterns and sequences. It also will introduce math vocabulary to the students.

**Course Goals:**
The students will be prepared to proceed onto Pre-Algebra.
The students will have a better understanding of whole numbers and how to use them in a variety of applications such as measurement and money.

**Student Objectives**
Students will be able to complete each of the following with 80% accuracy.
- Add, subtract, multiply and divide whole numbers.
- Round and estimate.
- Use basic measurements.
- Identify our monetary system and corresponding values.
- Understand basic fraction concepts.
- Order numbers correctly.
- Read, write and say all numbers between 0 – 1,000,000.
- Understand the basic math terms listed in the vocabulary section.
- Know the place values of digits in a number with up to 7 digits
- Factor whole numbers
- Recognize Prime numbers

**Language Literacy Goals**
**Reading skills**
Alphabetical order
Read and write numerals from 0 to 1,000,000
Recognize and use basic math symbols (+, −, ×, ÷, <, >, =)
Recognize, read, spell and pronounce key words
Sound out words and read aloud from a simple text
Match sentences to illustrations and diagrams
Answer yes/no to written questions
Recognize and use key vocabulary pertaining to math (e.g. how much, how many more, how much less, each, and, total etc.)

**Writing skills**
Accurately copy sentences including capitals, periods, and spaces
Accurately copy simple tables and graphs including title and labels
Oral skills
Respond to questions orally and ask questions
Volunteer information orally

Textbook, Supplemental Materials, other Resources
- This course will use supplementary instructional material from (but not limited to):
  - Individualized Computational Skills Program, Houghton Mifflin Company
  - Mathematics Skill Book “Whole Numbers”, Steck-Vaughn Company
  - NCTM materials including Illuminations Lesson and Activities
  - Holt, Course 3

Students will be responsible for bringing the following items to class daily:
  - Notebook
  - Pencil
  - Workbook

Course Content:
Number sense and their relationships
Numeration systems and their properties
Computational skills
Operations and their relationships
Problem solving and strategies
Basic measurement
Basic fraction concepts
Vocabulary development and application.

Calendar Math

Subject that will be covered by month:

<table>
<thead>
<tr>
<th>September</th>
<th>October</th>
<th>November</th>
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<tbody>
<tr>
<td>Digits</td>
<td>Shapes</td>
<td>Linear Measurement</td>
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<tr>
<td>Reading and</td>
<td>Symmetry</td>
<td>Thousands (ones, tens, and hundreds)</td>
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<tr>
<td>Writing numbers</td>
<td>Time</td>
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<tr>
<td>Ordinal numbers</td>
<td>Sequences</td>
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<tr>
<td>Bar Graphs</td>
<td>Days of the week</td>
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<tr>
<td>Money</td>
<td>Hundreds</td>
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<tr>
<td>Tens and ones</td>
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<table>
<thead>
<tr>
<th>December</th>
<th>January</th>
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<tbody>
<tr>
<td>Fractions</td>
<td>Area</td>
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<tr>
<td>Millions</td>
<td>Perimeter</td>
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<td>Weight measurement</td>
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<td>Liquid measurement</td>
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Classroom Guidelines

In order to have the most successful year for all students, the classroom atmosphere needs to be a safe learning environment. Thus, the expectation is for all students to be respectful of peers, respectful of adults, focused, and on-task.
Attendance:
Most of the work will be done in class so daily attendance is recommended to be successful.

Grouping consideration:
- Individual
- Pairs
- Small groups
- Whole class

IV. Text/Resources
1. PDF files provided on Schoology.
2. SPPS issued iPad.
3. Students must supply a notebook/folder dedicated to the course as well as pen/pencil

V. Methods of Assessment
Grades will be given at the conclusion of each quarter with 1 progress grade given over the course of the semester. Grades will consist of 70% summative assessments and 30% formative assessments, as stated by the Highland Park Senior High Grading Policy. The assessments will be based upon the aforementioned objectives and will include the MYP assessment criteria.

In this class, students will complete a variety of IB MYP assessments such as broad-based exams, group problems, written reflections, quizzes and projects. Assessments like these give students a chance to show their understanding and skills, and in turn, these assessments give teachers useful information, which can be shared with students and families to help improve learning. Students are evaluated in four different areas with IB MYP rubrics for this class:

IB MYP rubrics use an 8-point international scale, with 8 representing “excellent achievement” and 1 representing “limited achievement.” When these assessments will be counted toward students’ grades in the class, they will be converted to a standard A, B, C, D, N scale and the point value will appear on the rubric. Parents & guardians, please ask your student to share their rubrics with you.

Please also see Highland Park Grading and Assessment Policy on the Highland Park Senior High Webpage for additional information about assessment.

VI. Other course information
Students will be expected to adhere to the following classroom principles:
1. Respectful – I will demonstrate respect for myself, others, school, and the community
2. Responsible – I will be a responsible member of my school community
3. Safe – I will help create a school environment where every student feels safe
4. Engage- Follow school wide policy of NO CELLPHONE use during class.

Homework will be given daily and will be checked for completion and correctness in various manners.

All Highland Park grading and assessment policies will be followed as well as the school wide policy that cell phones not be used in class and that iPads are to be brought to class charged every day.

Most math teachers are available for help before or after school. Please check with your individual instructor for their exact schedule. However, we are only one resource to assist you in your
education. You will find that your textbook, online resources, classmates, and other resources will be very valuable. We will do everything in our power to help you succeed…all we ask is that you do the same!