# ***6th Grade Math Syllabus***

Hello and welcome to middle school and 6th grade math! I am very excited to be your math teacher and can't wait to get to know you this school year!

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| **Teacher**: Ms. Johnston | **Email**: djohnston@issosua.com |
| **Class Meeting Days**: Mondays and Thursdays 8:00-9:25, Wednesdays 8:00-8:44 (A Days Block 1, Skinny Days Period 1) | **Reinforcement Schedule**: By appointment or Monday, Tuesday, Thursday and Friday 3:00-3:30 |

**Course Description**:
6th Grade Math is a course used to apply and extend previous understandings to create a strong foundation of math for the upper years of secondary. Two of our overall objectives are to develop a strong number sense and solve one step equations with whole numbers, decimals, and fractions.

**Class Textbook:**
Bennett, J.M., Burger, E.B., & Chard, D.J. (2012). *Holt McDougal mathematics grade 6* (Common Core ed.). Orlando, FL: Holt McDougal.

**Content Schedule and Standards:**

| *Semester 1 Tentative Schedule*: | *Semester 1 Standards*: |
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| Dividing Multi-Digit Whole Numbers<br>Exponents<br>Order of Operations<br>Variables and Expressions<br>Solving One Step Equations with Whole Numbers<br>Operations with Decimals<br>Solving One Step Equations with Decimals<br>Factors and Prime Factorization<br>Comparing and Ordering Fractions | • Student is able to write and evaluate numerical expressions involving whole-number exponents.<br>• Student is able to write, read, and evaluate expressions in which letters stand for numbers.<br>• Student is able to use variables to represent numbers and write expressions when solving a real-world or mathematical problem.<br>• Student is able to solve real-world and mathematical problems by writing and solving equations with whole numbers.<br>• Student is able to fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.<br>• Student is able to solve real-world and mathematical problems by writing and solving equations with decimals.<br>• Student is able to find the greatest common factor of two whole numbers less than or equal to 10<br>• Student is able to understand ordering and absolute value of rational numbers |

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| *Semester 2 Tentative Schedule*: | Semester 2 Standards: |
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| Least Common Multiple<br>Operations with Fractions<br>Solving One Step Equations with Fractions<br>Central Tendency<br>Line Plots, Frequency Tables, and Histograms<br>Ratios, Rates, and Proportions<br>Area, Surface Area, and Volume | ● Student is able to find the least common multiple of two whole numbers less than or equal to 12.<br>● Student is able to interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.<br>● Student is able to solve real-world and mathematical problems by writing and solving equations with fractions.<br>● Student is able to understand measure of central tendency and how to display numerical data in plots on a number line, including dot plots, histograms, and box plots.<br>● Student is able to understand the concept of a ratio and a unit rate and apply to real world and mathematical problems.<br>● Student is able to find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.<br>● Student is able to find the volume of a right rectangular prism with fractional edge lengths.<br>● Student is able to represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. |

**Supply List:**
Please bring every day to class:

- Math textbook
- Pencils (bring more than one) and erasers
- Colored pens for correcting
- 3-Ring Binder
- Spiral Notebook (students will go through around 3 in a year)
- Graph Paper
- Calculator: 6th graders may use any calculator. Calculators on cell phones are not permitted.
- Charged Device, either Laptop or Tablet: cell phones will not be allowed to be used in the classroom

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Please bring to class when asked: ruler, scissors, glue stick, dry erase marker, colored pencils or markers and protractor.

**Classroom Expectations and Rules**:

- Be respectful of all other students, teachers and materials in the room.
- Follow directions the first time given.
- Be safe in all of your actions. Be appropriate and on task.
- Be responsible. Be prepared to class everyday with all needed supplies and completed homework (to be turned in before class begins).
- Students are not permitted to go to their locker once class has started.
- Cell phones are not permitted in class unless Ms. Johnston has requested them for a class activity.
- Utilize the facilities during break time as much as possible.
- Students will log onto Google Classroom each day to check for assignments, tasks or information provided for the class.
- Students must arrive on time and be ready to start class (See Student Handbook for penalties).
- Students will ask questions in class and seek additional help outside of class when necessary.
- Notes are required.
- Students will come to class with a positive attitude ready to work and try their best to have a growth mindset.
- Cheating will not be tolerated (see Student Handbook for penalties and ISS Academic Honor Code)
- All ISS rules apply to this classroom. This class will follow the ISS Student Handbook.

**Homework**:

- Students will try ALL problems in their homework, even if they are not sure how to complete the assignment.
- Students will show **ALL** of their work on homework and tests.
- After 3 late assignments in a quarter, an after school detention will be given.
- When absent, students are responsible to talk to their teacher to get the missing work. The work is expected to be returned as soon as possible. After a week of the absence, it will be considered late.
- The homework will be posted on the board and on Google Classroom.
- All assignments should be done in pencil and corrections done in pen.

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**Assessments:**

- The assessment process, both formal and informal assessments, is continuous and ongoing. Progress is reported via Thinkwave.
- Retakes will be given to those that earn anything below proficient. The test or quiz will need to have corrections made in pen, and signed by a parent or guardian. Students will also need to individually meet with Ms. Johnston to discuss a plan to improve before the next opportunity.

**Important Dates**:

-Quarter 1 Report Cards- October 18
-Quarter 2 Report Cards- December 20
-Semester 2 Exam Week- June 1-5
-Semester 1 Exam Week- December 16-20
-Quarter 3 Report Cards- March 20
-Quarter 4 Report Cards- June 5

**Grading:**

Grading will be done using Standards Based Grading. Standards Based Grading can be defined as a form of assessment, grading, and reporting tool that is based on students demonstrating understanding or mastery of skills that they are expected to learn throughout the process of the year. Things that can help demonstrate mastery of a standard include in class discussion, homework, quizzes, tests and other in class activities.

| ***EXPLANATION OF STANDARDS*** | | | |
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| ***E: Emerging*** Student is in the beginning stages of understanding concepts and procedures and requires consistent support | ***D: Developing*** Student accomplishes part of the task independently. Student can sometimes explain or demonstrate the process but may need prompting to complete it. | ***P: Proficient*** Student demonstrates proficiency of targeted grade level standards and is confident and competent. | ***M: Mastering*** Student demonstrates proficiency of targeted grade level standards with evidence of application to new contexts. |

**ISS Work Habits**:

Students will also be assessed by the ISS Work Habits: Work Ethic, Attendance, Perseverance, Initiative, Leadership and Respect. Students will receive marks all four quarters.

**Google Classroom:**

We will be utilizing Google Classroom in this class. You may use this to contact Ms. Johnston. It is an expectation that students check their Google Classroom daily for announcements, notes, helpful resources, assignments and extra practice. Classroom codes will be shared during the first week of school. Go to classroom.google.com to reach the website, and your classroom code is m48c09.

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I have read the above information, and understand all these expectations. I am committed and agree to follow them over the course of this school year.
Student Name and Signature

_____Date_____

We, the parents of _____have read the above syllabus and agree to be involved and support our son/daughter in its compliance.
Parent or Mentor Name and Signature

_____Date _____