***TMSA 6th Grade Math Course Syllabus***

***Teacher Contact Information***

Neslihan Soyuer

nsoyuer@tmsacademy.org

<http://soyuermath.weebly.com>

***Course Outline***

Sixth grade is the beginning of middle school, another important year of transition. The units include a review of all basic operations, with a deeper coverage of decimals, fractions and students will work with ratios, solve equations, measure area and volume, use negative numbers and deepen their understanding of mathematical concepts.

***School Provided Materials***

We will be using the textbooks Holt McDougal Course 1 North Carolina Common Core which can also be accessed online at [https://my.hrw.com](https://my.hrw.com/).   These books will be available to use during the day at school and can be used at home. Students will also have online access to the textbooks at home.

<https://app.studyisland.com>

***Student Required Materials***

* Students are expected to organize their class materials how they see fit, but we recommend a 1” binder with tabs for homework, classwork/notes, and study guides/reviews.
* **PENCILS ONLY.**
* Personal Scientific Calculator: **Please write your name on your calculator**. (No sharing calculators please.)
* Optional:  graph paper, ruler and erasable colored pencils for class activities.

***STEM Integration***

Triangle Math and Science Academy is now integrating STEM instruction into all courses. For 6th Grade, this means that for the majority of our class time, students will be investigating material in a collaborative manner through problem-solving, rather than receive total direct instruction. We will be following the standards based pathway for 6th grade math.

***Units and***

·         Unit 1: Whole Numbers and Pattern.

Lesson 1-1 Comparing and Ordering Whole Numbers

Lesson 1-2 Estimating with Whole Numbers

Lesson 1-3 Representing Numbers Using Exponents

Lesson 1-4 Using the Order of Operations

Lesson 1-5 Using Number Properties – Mental Math

Lesson 1-6 Choose the Method of Computation

Lesson 1-7 Patterns and Sequencess

●       Unit 2: Introduction to Algebra

Lesson 2-1 Variables and Expressions.

Lesson 2-2 Translating Between Words and Math.

Lesson 2-3 Translating Between Tables and Expressions

Lesson 2-4 Equations and Their Solutions.

Lesson 2-5 Addition Equations.

Lesson 2-6 Subtraction Equations.

Lesson 2-7 Multiplication Equations.

Lesson 2-8 Division Equations.

●       Unit 3: Decimals

Lesson 3-1 Representing, Comparing, and Ordering Decimals

Lesson 3-2 Estimating Decimals

Lesson 3-3 Adding and Subtracting Decimals

Lesson 3-4 Writing Numbers in Scientific Notation

Lesson 3-5 Multiplying with Decimals

Lesson 3-6 Dividing with Decimals and integers.

Lesson 3-7 Dividing with Decimals and decimals.

Lesson 3-8 Interpreting the Quotient

Lesson 3-9 Solving Equations Containing Decimals

●       Unit 4: Number Theory and Fractions.

Lesson 4-1 Divisibility

Lesson 4-2 Factors and Prime Factorization

Lesson 4-3 Greatest Common Factor

Lesson 4-4 Decimals and Fractions

Lesson 4-5 Equivalent Fractions

Lesson 4-6 Mixed Numbers and Improper Fractions

Lesson 4-7 Comparing and Ordering Fractions

Lesson 4-8 Adding and Subtracting with Like Denominators

Lesson 4-9 Estimating Fraction Sums and Differences

●       Unit 5: Fraction Operations.

Lesson 5-1 Finding the Least Common Multiple (LCD)

Lesson 5-2 Adding and Subtracting with Unlike Denominators

Lesson 5-3 Adding and Subtracting Mixed Numbers

Lesson 5-4 Regrouping to Subtract Mixed Numbers

Lesson 5-5 Solving Fraction Equations with Addition and Subtraction

Lesson 5-6 Multiplying Fractions by Whole Numbers

Lesson 5-7 Multiplying Fractions

Lesson 5-8 Multiplying Mixed Numbers

Lesson 5-9 Dividing Fractions and Mixed Numbers

Lesson 5-10 Solving Fraction Equations: Multiplication and Division

●       Unit 6: Collecting and Displaying Data.

Lesson 6-1 Problem Solving Strategy: Make a Table

Lesson 6-2 Range, Mean, Median, and Mode

Lesson 6-3 Additional Data and Outliers

Lesson 6-4 Bar Graphs

Lesson 6-5 Line Plots, Frequency Tables, and Histograms

Lesson 6-6 Ordered Pairs

Lesson 6-7 Line Graphs

Lesson 6-8 Misleading Graphs.

Lesson 6-9 Stem-and-Leaf Plots

Lesson 6-10 Choosing an Appropriate Display

●       Unit 7: Proportional Relationships

Lesson 7-1 Ratios and Rates

Lesson 7-2 Using Tables to Explore Equivalent Ratios and Rates

Lesson 7-3 Proportions

Lesson 7-4 Similar Figures

Lesson 7-5 Indirect Measurement

Lesson 7-6 Scale Drawings and Maps

Lesson 7-7 Percents and Decimals

Lesson 7-8 Percents, Decimals, and Fractions

Lesson 7-9 Percent Problems

Lesson 7-10 Using Percents

●       Unit 8: Geometric Relationships

Lesson 8-1 Building Blocks of Geometry

Lesson 8-2 Measuring and Classifying Angles

Lesson 8-3 Angle Relationships

Lesson 8-4 Classify Lines

Lesson 8-5 Triangles

Lesson 8-6 Quadrilaterals

Lesson 8-7 Polygons

Lesson 8-8 Geometric Patterns

Lesson 8-9 Congruence

Lesson 8-10 Transformations

Lesson 8-11 Line Symmetry and Tessellations

●       Unit 9: Measurement and Geometry.

Lesson 9-1 Understanding Customary Units of Measure

Lesson 9-2 Understanding Metric Units of Measure

Lesson 9-3 Converting Customary Units.

Lesson 9-4 Converting Metric Units

Lesson 9-5 Time and Temperature

Lesson 9-6 Finding Angle Measures in Polygons

Lesson 9-7 Finding Perimeter

Lesson 9-8 Circles and Circumference

●       Unit 10: Measurement: Area and Volume

Lesson 10-1 Estimating and Finding Area.

Lesson 10-2 Area of Triangles and Trapezoids.

Lesson 10-3 Area of Composite Figures.

Lesson 10-4 Comparing Perimeter and Area

Lesson 10-5 Area of Circles

Lesson 10-6 Three-Dimensional Figures

Lesson 10-7 Volume of prisms.

Lesson 10-8 Volume of cylinders.

Lesson 10-9 Surface Area

●       Unit 11: Integers, Graphs, and Functions.

Lesson 11-1 Integers in Real-World Situations

Lesson 11-2 Comparing, and Ordering Integers

Lesson 11-3 Graphing on a Coordinate Plane

●       Unit 12: Probability

Lesson 12-1 Introduction to Probability

Lesson 12-2 Experimental Probability

Lesson 12-3 Counting Methods and Sample Spaces

●       Unit 13. Functions, Equations, and Inequalities

Lesson 13-1 Writing Equations for functions

Lesson 13-2 Finding Solutions to Equations

Lesson 13-3 Constant and Variable Rates of change

Lesson 13-4 Solving Equations

Lesson 13-5 Solving and graphing simple inequalities.

***TMSA Plagiarism and Cheating Policy (From Student Handbook)***

Cheating and plagiarism are deceptive choices made by students to misrepresent the student’s true knowledge of the subject material (cheating) or misrepresenting information as their own ideas/concepts/words by not giving proper credit to the original source (plagiarism). All papers or projects submitted at TMSA are required to be in the student’s own words unless stated in writing by the teacher otherwise.  Therefore, any copying of information from the Internet or any other source (i.e. “cutting & pasting”, etc.) is considered plagiarism. However, quotations, drawings and/or pictures may be taken from the Internet or other source as long as they are properly cited in the document.

Please note that students may suffer additional consequences from their clubs/organizations for instances of cheating and plagiarism. Below are the classroom consequences for cheating/plagiarism:

* First offense: assignment is given automatic, permanent zero. The teacher will create a discipline write up for the student and contact the parents.
* Subsequent offenses:  assignment is given automatic, permanent zero. The teacher will create a discipline write up for the student and the Discipline Coordinator will determine further consequences.

***Grade Breakdown***

* 50% Major
  + Ex: Tests
  + There are no test retakes. Credit will not be given for test corrections, though they are highly encouraged.
* 30% Medium
  + Ex: Quizzes/Projects
  + Can be independent, group, take home, or online to be completed in class or at home.
  + There are no quiz retakes. Credit will not be given for quiz corrections, though they are highly encouraged.
* 20% Minor
  + Ex: Homework/Classwork

***Homework Policy***

* Homework may be given as a handout, assigned through study island, mathxl or some other form of assessment.
* Students can expect homework after every class, though Mrs. Soyuer may try not to send HW home on the weekends.
* Homework is checked for completion only as answers are provided
* Homework should show all work for credit
* Late policy: if you do not have your homework on the due date, you have 3 days to turn it in for half credit. After this, the grade will remain a zero.
* Mrs. Soyuer will put in weekly homework assignments into powerschool.
* It is unacceptable for a student to go to the teacher at the end of the quarter and ask for missing work and partial credit. You have 3 days to turn in late homework only.

***Making poor choices***   
  
1st time – Verbal warning   
2nd time – Conference with student / Refocus Form will be sent home  
3rd time – Parent contact (phone, e-mail, or form sent home)   
4th time – Lunch detention   
5th time – Office Referral which may lead to Parent/Student/Dean/Teacher conference

\*\*\*If your behavior is highly disruptive, disrespectful, or dangerous you will be removed from the classroom immediately to ISS ROOM.

**SIGNATURE PAGE FOR 6th Grade Math.**

**Please return this page signed. It counts as our first homework assignment.**

**This syllabus constitutes an academic contract between parent, teacher and student.**

**Agreement: I have read the course overview. I agree to abide by the conditions outlined in this course description, come to class prepared to work and participate in class activities, exhibiting respect, cooperation and honesty with my teacher and fellow students. I will place this syllabus in the front of my notebook for future reference.**

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Print Student’s Name: Please be neat!

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Student’s Signature Date

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Parents’ Signature Date

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Parent email: Please be neat!

**NOTE: If you would like your student included on class emails, absent work and general communication, please write their email address below.**

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Student email: Please be neat!

**Please email me with any comments or concerns.**

**Mrs.Soyuer**

**TMSA MathTeacher**

YUMMY PERMISSION SLIP

Students / groups may receive such rewards as ice-cream, doughnut & pizza parties throughout the year. Your child needs your permission to be rewarded in that way.

Please sign accordingly and list any allergy information below.

□ YES, I would like my child to receive food and drink from his teacher.

□ NO, I would like my child NOT to receive food and drink from his teacher.

If you have checked YES above, please include allergy info:

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Parent Name and Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Name: