***TMSA Compacted 7th & 8th Math Course Syllabus***

***Teacher Contact Information***

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***Course Outline***

Compacted 7th&8th grade math (Prealgebra) is an advanced course for sixth graders. This year-long course prepares students to enter the study of Math I (a high school credit course) as seventh graders. The focus of the course is building the foundation necessary for success in the study of algebra. Students will become familiar with the following: the properties of mathematics; the language of algebra; solving one step and two step equations; adding, subtracting, multiplying and dividing rational numbers and integers; solving inequalities; graphing equations and inequalities; proportion; percent; statistics and graphs; probability; applying algebra to geometry; measurement; introduction to trigonometry; and the study of polynomials.

***School Provided Materials***

We will be using the textbooks Holt Course 2 Prealgebra. Students will have access to study island and mathxl. Students are expected to complete homework through study island and mathxl

***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.**
* **Calculator:**. Calculator TI-30XIIS or any type of 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 compacted 7th &8th grade math (Prealgebra).

***Units***

* Unit 1: Principles of Algebra
	+ Evaluating algebraic expressions
	+ Operations with Integers
	+ Solving one/two-step equations
* Unit 2: Rational Numbers
	+ Comparing and ordering rational numbers
	+ Solving two step equations with rational numbers
* Unit 3: Multi-Step Equations and Inequalities
	+ Solving equations with variables on both sides
	+ Solving inequalities
* Unit 4: Exponents and Roots
	+ Properties of exponents
	+ Scientific Notation
	+ Estimating square roots
	+ Pythagorean Theorem
* Unit 5: Ratios, Proportions, and Similarity
	+ Rate, Ratio, Unit Rates
	+ Proportions
	+ Similar Figures
	+ Scale drawing and models
* Unit 6: Percents
	+ Relating fractions, decimal, percent
	+ Applying percent of increase or decrease
	+ Applying simple and compound interest
* Unit 7: Graphs and Functions
	+ Graphing linear and quadratic functions
	+ Cubic Functions
	+ Rate of change and slope
	+ Interpreting Graphs
* Unit 8: Foundations of Geometry
	+ Area of Shapes.
	+ Area of Composite Figures.
	+ Area of Circles
	+ Volume of prisms and Volume of cylinders.
	+ Surface Area
* Unit 9: Data, Statistics, and Probability
	+ Experimental and theoretical probability
	+ Mean, median, mode, range
	+ Box-whisker, scatter, line, stem-leaf plots
	+ Dependent and independent events
* Unit 10: Polynomials
	+ Simplifying polynomials

***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 Compacted 7th &8th 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: