

**Course Description**

The purpose of the Algebra course is to formalize and extend the mathematics that students learned in the 6th and 7th grade. Students will deepen and extend their understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. Students also engage in methods for analyzing, solving, and using quadratic functions. The goal is that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Units of study will include the following:

1. Expressions and Equations
2. Systems of Equations
3. Linear and Exponential Functions
4. Statistics and Data
5. Polynomial Expressions and Equations
6. Quadratic Functions
7. Other Functions

Textbook/Resources

Florida ALGEBRA 1 Analyze • Connect • Explore (Houghton Mifflin Harcourt 2015)

<http://my.hrw.com>

Khan Academy: <https://www.khanacademy.org/math/algebra>

IXL: <https://www.ixl.com/>

Required Materials/Supplies

School-issued iPad (charged)

3-prong folder with pockets

Loose leaf notebook paper

Dry erase markers

Pen, pencil, colored pencils and highlighters

12-in ruler with cm

Basic four function calculator with a square root key $\sqrt{\quad}$ and a positive/negative key +/-

Scientific and graphing calculators are not permitted.

Organization

1. Online teacher notes and assignments through OneNote, digital textbook, IXL and other Microsoft Office 365 tools (invited by the teacher for OneNote – please do not create your own notebook)
2. Student notes, supporting work for assignments, some formative assessments & all summative assessments/rubrics are kept in the math folder and arranged by date and unit/topic

Behavior and Classroom Expectations

The MTC middle grades conduct expectations and point sheet will be utilized to cultivate good behavioral and learning habits, as detailed in the family handbook. Demerits will be recorded on the point sheet in front of the planner, as well as on RenWeb.

Additional Assistance

I will hold a weekly ZOOM session from 3:45 to 4:15pm by appointment. These sessions will be to answer specific questions, not to reteach an entire unit. Students should be prepared with their questions in advance.

Communication

- Email: jthomas@mtctampa.org Emails are returned within 24-48 hours during school days.
- Microsoft Teams: Homework assignments will be posted daily. Tests and quizzes will be posted one week in advance.
- RenWeb: Grades will be updated weekly.