Success

What people think it looks like

Success

What it really looks like
Agenda

- Katy ISD philosophy for Math
- Math Mindset
- Changes in Math education
- Math Homework: How can I help my child?
- Student Expectations
- Pre-AP versus Academic Math
- 8th grade and High School credit calculator use
- Textbook
- Canvas
- Questions
Katy ISD believes that math classes should provide all students opportunities to learn important mathematical concepts while empowering students to become confident, resourceful, and persistent problem solvers.
Mindset
Self Assessment
GROWTH MINDSET

Mindset and Math Achievement at a Glance Handout
Why does the Math that I learned as a child look different from the Math that my child is learning?

- **Focus on Understanding**
- **Active Learners**
- **Lifelong Understanding**
- **Real Life context**

<table>
<thead>
<tr>
<th>Yesterday's Classroom</th>
<th>Today's Classroom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight rows of desks</td>
<td>Groups of desks</td>
</tr>
<tr>
<td>Teachers showing students how to solve a problem while the students copied the process from the board</td>
<td>Students working together and discussing how to solve a problem, with guidance from teachers</td>
</tr>
<tr>
<td>Students repeating given rules and memorizing what to do in operations on numbers</td>
<td>Students applying the mathematics they know to develop new skills as they examine and question solutions to problems, including real-world situations</td>
</tr>
</tbody>
</table>
(1) **Mathematical process standards.** The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:

(A) apply mathematics to problems arising in everyday life, society, and the workplace;

(B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution;

(C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems;

(D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate;

(E) create and use representations to organize, record, and communicate mathematical ideas;

(F) analyze mathematical relationships to connect and communicate mathematical ideas; and

(G) display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication.
Math Homework is Due tomorrow. How can I help my child?

- You are a guide more than a teacher.
- Don’t take over for your child.
- The best thing you can do is ask questions and then listen. Often explaining something out loud can help your child figure out what to do.
- Encourage your child to show all of their work.

- Show the importance of learning math by connecting math with daily life.
- Point out your own activities that involve math.
- Talking about these everyday situations will help your child gain an appreciation for the usefulness of math.
- Praise the process!
Expectations of the Students

- Students are expected to stay on top of their “game” - turn work in on time, participate in class, pass quizzes and tests, study!
- Study! How? - Go back over homework problems, go back over quizzes, work review problems
- Show up for advisory tutorials - ask for an Advisory pass
- Show up for teacher tutorials
- Study during their assigned advisory period
- Extra practice on Math websites

Students who put in a concerted effort towards their classes will be more successful!
### 6th grade Math tutorials

<table>
<thead>
<tr>
<th>Day</th>
<th>AM 6:50 to 7:20</th>
<th>PM 2:40 to 3:10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>Pre-AP</td>
<td>Academic</td>
</tr>
<tr>
<td>Tuesday</td>
<td>Pre-AP</td>
<td>Academic &amp; Pre-AP</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Academic</td>
<td>Pre-AP</td>
</tr>
<tr>
<td>Thursday</td>
<td>Academic</td>
<td>Academic &amp; Pre-AP</td>
</tr>
</tbody>
</table>
# 7th grade Math tutorials

<table>
<thead>
<tr>
<th>7th Math Tutorial Schedule</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AM (6:50 - 7:20)</strong></td>
<td>ACA: Balash 1199</td>
<td>PAP: Balash 1199</td>
<td>ACA: Tyson 1197</td>
<td>PAP: Freeland 1196</td>
</tr>
<tr>
<td><strong>PM (2:40 - 3:10)</strong></td>
<td>PAP: Greene 1198</td>
<td>ACA: Freeland 1196</td>
<td>PAP: Tyson 1197</td>
<td>ACA: Stinchcomb 1200</td>
</tr>
</tbody>
</table>
8th Grade Tutorials:
M-Th 2:40-3:10pm
T/Th 6:50-7:20am

Algebra Tutorials:
M-Th 2:40-3:10pm
W/F 6:50-7:20am
Interactive Student Websites

- http://figurethis.nctm.org/index.html
- http://calculationnation.nctm.org/
- http://nlvm.usu.edu/
- http://www.mathopenref.com/index.html (High School Courses)
- https://www.ixl.com/
- https://www.khanacademy.org/
What is Pre-AP Math?

- Pre-Advanced Placement
- Starts in the 6th grade
- Students who remain in Pre-AP 7th Grade with a 75% or higher are automatically placed in Algebra 1
- A pathway to AP Calculus (College credit)
Curriculum
PreAP/GT Curriculum:

- 6th Grade PreAP/GT
- 7th Grade PreAP/GT
- JH Algebra 1

6th Grade Math TEKS
7th Grade Math TEKS
8th Grade Math TEKS
Algebra 1 TEKS
Algebra 1

- For Junior High students, it is high school credit
- Not considered “Pre-AP”
- Algebra 1 is a 4.0 GPA scaled course
- On-track to AP Calculus
- New TEKS this year
Curriculum by Grade Level Handout
Students taking the 8th grade STAAR and the Algebra EOC must have access to graphing technology while taking the STAAR Assessment.
6-8 Math Textbook

Publisher: McGraw Hill

- Students will receive 2 consumable textbooks (2 volumes) and access to the online version of these textbooks.
- Online textbooks can be accessed through the Math teacher's Canvas page.
Algebra Textbook

Publisher: Houghton Mifflin

- Students will receive 2 consumable textbooks (2 volumes) and access to the online version of these textbooks.
- Online textbooks can be accessed through My Katy Cloud
Canvas

Leigh Anne Tyson – 7th grade Math Teacher
Questions?