

6th GRADE DIS ACCELERATED MATH GUIDE 2011-2012

<http://www.southlakecarroll.edu/DIS/DISMATHWeb/ManghamMain.htm>

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WELCOME! I hope that sixth grade math will be a positive experience for both you and your student. The following guide is to help you through our class this year and to make the most of all the opportunities available to you. I have redesigned the guide this year to put the main focus on why this will hopefully be the best math class your student has ever taken.

THE GOALS

- Number one: **For your student to enjoy math!**
- For your student to want to be a part of math class each and every day.
- For your student to master all math objectives through the end of 8th grade (pre-Algebra).
- For your student to learn better ways to study, take notes, and plan their work assignments.

THE EXCITING STUFF

What makes Mangham Math different?

We are focusing on real world uses for mathematics. While the second semester lends itself more to incorporating the math into everyday life, this will be a focus all year. There are three huge units that have been developed for this class over several years:

- **Architecture: Design Your Dream Home** – Four weeks combining geometry along with numerous other math concepts culminating in each group designing a home to scale
- **Food and Restaurants** – Three weeks of students creating menus, determining tax and tips, and completing income/expense reports for their newly created restaurant
- **Fantasy Football** – Over the fall semester, students draft and run their team each week computing their fantasy score and competing against others. We make it fun even if you know nothing about football!!!

The math book is a great resource to keep at home when you need help. There are many more exciting things for us to do in class every day.

What else would I see in this math class?

- **The Handshake** – Mr. Mangham greets his students every day at the door with a handshake. This is extremely important to me and my students learn not to enter until I am there to greet them. I always want to start on a positive note and thank my students for coming to class each day.
- **The Songs** – As students enter the room there is always music playing! We have a wide variety of songs from “Monday Monday” starting the week to “Celebration” to end the week. From current hits to blasts from the past music is a fun way to start each class as the students work on their warm-up.

- **Student of the Week** – Each week a couple of students in each class will be awarded this honor. They will earn something special each day in addition to going to the office and calling their parents on Monday right after they are announced as the winners!
- **Mangham's Most Wanted** – As a parent you will be signing or initialing many of these throughout the year. They are given out every day for anything good, creative, helpful, or brilliant!
- **Hands-On** – Math is not all pencil and paper. We will be using centimeter cubes, two-color counters, AlgeBlocks, dice, flags, and more! Students will be working in groups, acting things out, discussing a wide variety of solutions, and learning together.

THE BASICS

Why am I in this class? What will we be doing in this class? What is the goal of this class?

You are in this class because you have tested at a level indicating this you are ready for accelerated math. We will cover **ALL of 7th grade math and ALL of 8th grade math**. The class was developed so students as 7th graders are ready for Algebra class. Algebra is usually a 9th grade class, so this class prepares as many students as possible to jump two years ahead in math.

So what exactly are the topics you plan to cover?

The two most important new topics will be integers (that means negative numbers!) and equations. Do not worry, though, we will also be covering topics from the past such as fractions, geometry, probability, and statistics.

So what would an alien see if he walked into your room for the first time?

Each day is different, but here are some things I hope he would discover:

- Students engaged in problem solving by exploring, investigating, estimating, questioning, predicting, and testing their ideas about math.
- Students working together to solve math problems and talking about math.
- Students using materials they can touch and feel to explore and develop their understanding.
- Students will experience math in terms of daily life and seeing the connections both within mathematics and other disciplines.

So what should I expect to see at home in terms of homework?

This class is like a select soccer team compared a recreational soccer team. You should expect to see your student doing homework every night. We are covering two years in one. Assignments are always given in advance so that students can plan ahead. Your student should **NOT** be spending inordinate amounts of time on homework. When 15 problems can cover what they need to learn I don't assign 50. Parents in the past have told me their student averaged 20-30 minutes each night.

Can I get assignments in advance?

The HW for the entire week is posted each Monday in class and on the website. Students copy down all assignment first thing when they walk into class on Monday. **More than 90% of the time** students also have these assignments with them or they are available for pick up in advance – so you can plan your schedule!

How can I be better prepared for tests?

Before most tests you have a review to that is very similar to the test so it is the best way to study. Reviews are not due until test day, but you can always complete them early and give them to Mr. Mangham to check and let you know how you are doing.

What are your expectations of my assignments, Mr. Mangham?

1. I will accept all work that is completed in **PENCIL**.
2. I will accept all papers which **SHOW ALL WORK** unless specific directions state otherwise.
3. I will accept work always completed **ON A SEPARATE SHEET OF PAPER** unless otherwise directed.

How are the longer projects graded?

On any long-term project, I am very careful to assign **INDIVIDUAL** grades. If you do the whole project and your partner Elmo sleeps, you get the credit, not Elmo.

So exactly what makes up my grade?

Grades are available online so your parents can always go check them.

Tests/Projects – 50-60% , Reviews/POW’s/Daily Work/HW/Warm-Ups – 40-50%,

Is it okay if I turn in most of my assignments late?

You must also be responsible and a hard-worker. **I expect no late work**. Anything more than 2 days late becomes a zero, which could jeopardize you staying in accelerated math. I realize everyone can leave something at home once or twice, but repeated late and missing work is not acceptable.

Tutoring is for dummies, right?

Wrong!!! I am available **every morning** for tutoring starting at 7:45am. Many students take advantage of this extra time to ask questions or work on problems. The students who do the best in the class are often the ones I see during tutoring time. Over the past years I have had students who show up in my room **every single morning** before school.

What can I find on the internet for your class?

A lot!!! In addition to overall grade, test grades are always posted within 24 hours. All reviews for tests are posted on my site. All chapter packets are also placed on the internet – that means all your homework assignments! You can’t use the excuse, “I left my HW at school!”

Is that true that you are a hard teacher?

I have high expectations of my students, but we like to have a lot of fun along the way as well. If you like a challenge and are willing to work hard, my class might even be your favorite! I can guarantee you will have the opportunity to learn more than you ever imagined in one year.

I do not treat all students equally. I treat all students equitably.

What can I do as a parent to help?

Please feel free to always email me with questions or concerns. With assignments at home, I suggest:

1. Never pick up the pencil! Ask questions and give directions, but have the student do all the work!
2. Give the smallest hint you can without telling how to solve the problem.
3. Always be encouraging. Please don’t ever say “This is so easy” or “I already know how to do this”. Also do not tell your student, “Well, I was never good at math!” Some students believe that since mom or dad was never good at math that they will never be successful either.

Thanks in advance for what is going to be a spectacular year!