



## Math Models Syllabus 2016-2017

### Course: Math Models

This class is designed to help students build on the K-8, Algebra 1, and Geometry foundations as they expand their understanding through other mathematical experiences. Students will use mathematical methods to model and solve real life applied problems involving money, data, chance, patterns, music, design, and science. Students will use mathematical models from algebra, geometry, probability, and statistics and make connections among these to solve problems.

Pre-requisite: Algebra 1

### Teacher Information:

If you have any questions or concerns you may call the school at 682-314-0100 , leave a message and it will be returned as soon as possible. Or send an email, and it will be answered as quickly as possible.

Name	Email information	Conference Time
Mr. Bertucci	<a href="mailto:MichaelBertucci@misdmail.org">MichaelBertucci@misdmail.org</a>	B Day Block 5 7:25 – 8:55

Textbook: Mathematical Models with Applications, hardcopy and/or on-line version is available.

### Webpage links for additional help:

[www.purplemath.com](http://www.purplemath.com)  
[www.math.com](http://www.math.com)

[www.mysatori.com](http://www.mysatori.com)  
[www.khanacademy.org](http://www.khanacademy.org)

[www.mathtv.com](http://www.mathtv.com)

### Ipad Apps:

iTunesU	Educreation	Note Anytime	Scan	Big Ideas Math
Socrative (Student)	Edmodo	My Big Campus	Kahnacademy	
Conundra math	Mabble	Math Ref free	Math your teacher	

Grade Book Website: [www.mansfieldisd.org/skyward](http://www.mansfieldisd.org/skyward)

District Scope and Sequence: [www.mansfieldisd.org/page.cfm?p=4901](http://www.mansfieldisd.org/page.cfm?p=4901)

Materials: All students must have and bring the following materials to class everyday:

Paper, Pen or Pencil, folder/binder, highlighter, and **IPAD**

A class set of TI-84 Plus calculators are provided for students to use during class time only as long as the student and parent have signed a calculator contract. These calculators will not be checked out to students at any time during the semester. Although it is not required, it is strongly advised that students purchase their own TI-84 Plus calculator for their high school math classes.

### GRADING POLICY:

Academic grades for each 6 weeks will be based on a percentage as outlined. Semester grades and end of year grades will be calculated according to district policy.

Math Models six weeks:  
Test/Project -- 50% Quiz – 30%  
Daily Work – 20%

Semester grades:  
Six weeks averaged -- 80%  
Semester exam -- 20% See student handbook for policy exemptions.

**Skyward** – Students are encouraged to stay on top of their grades. With the iPad, students can easily access the online grade book through the Skyward Student Access app.

### **Daily Assignments / Homework: 20% of grade**

- A. Must be labeled with name, date, block, and assigned page(s), and problems.
- B. **All work must be shown**, neatly and orderly. Answers must be clearly marked.
- C. Classwork/Homework will be graded on work shown, neatness, and correctness of answers.
- D. Assignments due during an absence are due upon return.
- E. Students are expected to complete all assignments by the given deadlines. Late work may be assessed a 30-point deduction for one day late.
- F. Students who miss an assignment during an absence are given one additional day to complete the missing assignment. You are responsible for getting any work you have missed due to absences whether they are personal or school related. *It is the student's responsibility to request make-up work and to communicate with the instructor.* Being assigned to the Alternative Classroom is not considered absent, and the work sent to them is due the next time they are in the classroom.

### **Quizzes: 30% of grade**

- A. Quizzes may be made up within two days OUTSIDE OF CLASS TIME if the student is absent.
- B. If a student fails a quiz there will be one opportunity to retake it for a 70 outside of class time.

### **Tests: 50% of grade**

- A. Tests will be given at the completion of each unit.
- B. Mid-chapter tests may be given if deemed appropriate by your instructor.
- C. Please refer to the course calendar/schedule for **approximate** test dates.
- D. Students with multiple absences during a chapter are responsible for making arrangements with the instructor.
- E. If you are absent on the day of a test, you will take that test on the day you return.
- F. Retakes – Retakes for any test below a 60 for a maximum grade of a 70. Students take the whole test over. Students **must** attend tutoring prior to scheduled retest day. All retesting will be done after school at teachers' discretion.
- G. Corrections – Corrections for any test 60 or above are graded at 1/3 points back for every correct answer given on original test.
- H. Project may be given through out the year. Projects assigned with at least one week notice are always due on the date announced. If absent they are due upon return to class, retakes/corrections are not permitted on projects. Project may be accepted one day late for a maximum grade of a 70.

### **Attendance and Tardies:** *Policy as explained in the student handbook:*

**Academic Dishonesty:** A student found to have engaged in academic dishonesty shall be subject to grade penalties on assignments or tests and disciplinary penalties in accordance with the Student Code of Conduct. Academic dishonesty includes cheating or copying the work of another student, plagiarism, and unauthorized communication between students during an examination. The determination that a student has engaged in academic dishonesty shall be based on the judgment of the classroom teacher or another supervising professional employee, taking into consideration written materials, observation, or information from students.

### **Discipline:**

Our philosophy of discipline is centered on mutual respect. I am in full support of all school rules and enforce them.

### **Classroom Procedures and Expectations:**

- A. Appropriate learning environment behavior is expected.
- B. When the bell rings please be in your seat working on the bell assignment.
- C. Appropriate personal behavior is expected.
- D. All school rules will be enforced. (IDs, dress code, cell phones, I-pods, MP3 players, etc.)
- E. Class participation, a positive attitude and a strong work ethic are expected.
- F. Students will be allowed to have bottled water.
- G. I will dismiss the class not the bell. You are not to leave your seat and stand by the door at any time during the class. No class will be dismissed until all supplies and calculators are returned to their proper places

### **General Information:**

- A. Parents and students will be able to access grades online through skyward. Grades will be regularly updated.
- B. The chance to earn *extra credit* will be offered to every student.
- C. The teacher reserves the right to alter any guideline discussed in this document to accommodate individual students.

### **Tutoring availability:**

Math Model students may attend tutoring before or after school as per schedule posted in in Mr. Bertucci's room.

### **Calendar:** (dates are subject to change)

General guidelines for each six weeks

Weeks 2 and 5 major test, Weeks 1, 3, 4, and 6 quiz, Usually at least one homework assignment per week

***\* Please make sure that your Skyward information is correct. Correspondence is sent through Skyward.***

**Please have all parties sign this form and return it to the teacher.**

**\*Math Department Calculator Contract\***

Every student will have a TI-84Plus calculator available for them to use during class time. Once a student and his/her parent signs this contract, they will be issued a calculator. If a teacher observes a student either using a calculator inappropriately or damaging a calculator in any way the following consequences will occur:

1<sup>st</sup> offense – the student will lose school graphing calculator privileges for the next 5 class periods and could be required to pay a fine up to the value of the calculator for any damage caused

2<sup>nd</sup> offense – the student will lose school graphing calculator privileges for the remainder of the school year and could be required to pay a fine up to the value of the calculator for any damage caused

In the event that a student loses a calculator, they must pay for the replacement cost of the calculator. Approximate cost for a TI-84 Plus calculator is \$110.

Students must always take the calculator assigned to them and notify their teacher immediately if there is any prior damage to the calculator or if someone else is using their calculator.

By signing here, I understand that I am responsible for the calculator I use during class. I will pay for the replacement of that calculator if it is lost or damaged.

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Parent Signature

\_\_\_\_\_  
Date

***PARENT(S)/ GUARDIAN:***

\_\_\_\_\_  
Class

\_\_\_\_\_  
Block

\_\_\_\_\_  
Teacher

\_\_\_\_\_  
Year

I have reviewed the syllabus for the above listed teacher and class. I am aware of and will support the academic grading standards, requested materials, and the classroom policies and expectations as described.

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Parent Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Student Printed Name

\_\_\_\_\_  
Parent Printed Name

\_\_\_\_\_  
\* Parent Email address or phone number  
(if different from Skyward)

If you do not have access to Skyward or email, please indicate how you would like to receive correspondence (and to whom) with address/phone number (i.e. Jane Smith, mother work phone, # 817-555-5555)

\_\_\_\_\_  
***\* Please make sure that your Skyward information is correct.  
Correspondence is sent through Skyward.***