

# Ms. Atia's STEM Syllabus

(Science, Technology, Engineering, and Math)

## Manhattan Beach Middle School

Phone: (310) 545- 4878 x 3103

Email: katia@mbusd.org

### Course Description

The STEM elective is a yearlong class. Students will be taken through the engineer design process, which guides the students through the design and implementation of the projects and concepts. In addition to learning STEM topics, students will also apply English language arts concepts and skills to each project. This allows students to improve their problem-solving and critical thinking skills while they develop invaluable competencies in leadership, team building, creativity, and communication. Students will additionally be engaging in real world problem solving.

**\*Group work is a large part of this class. Students will learn how to work with one another in a variety of different groupings. A positive attitude, flexibility, and cooperation is a MUST to be successful in this class!**

### Projects/Topics for the Year

- Bridges
- Catapults
- Electricity
- Gliders
- Helicopters
- Mousetrap Cars
- Parachutes
- Coding
- Rockets
- Rube Goldberg
- And many more!

### Grading Policy

Grades will consist of:

- participation grades
- daily work grades
- projects
- assignments
- notebooks

**\*Most projects will count as multiple grades instead of just one grade.**

## Supplies

Students will be required to have the following items with them everyday:

1. iPad
2. Composition book
3. Writing utensil (pen or pencil)
4. Colored pencils or markers
5. A set of ear buds/headphones

Students will also be asked to bring in materials from home depending on the project we are working on.

## Late Work:

All work is expected to be turned in **on time**. In the case that work is late points will be deducted from the students' grade.

## Communication

Communication is a key to success in class and email works best for me (katia@mbusd.org). Please do not send any emails through Aeries, as I cannot see your email address.

Check Aeries. Any questions that arise with your child's grade, **please discuss with them first - most questions can be best answered by them.**

## Classroom Expectations:

1. Respect others and their property.
2. Follow directions the first time they are given.
3. Be in your seat ready to learn when the bell rings.
4. Leave when the teacher dismisses you.
5. Use only materials that only pertain to the class.
6. Do not disrupt the learning or teaching process in any way.

## Classroom Website

This includes our calendar, lists any projects that may need to be worked on at home, and is where students will find the weekly coding challenge every week.

**Here is the link for our STEM webpage:**

<http://mbmsstem.weebly.com/>

**Syllabus Sign-off:**

Please go to the link below. If you cannot open the link directly, please copy and paste this link in Google Chrome or Safari.

<https://goo.gl/forms/BLPKkbar0oXmPP1g1>