

## 7<sup>th</sup> grade STEM SYLLABUS

**Course Title:** M/J STEM Environmental Science #2002200

**Grade Level:** 7<sup>th</sup> grade

**Textbook:** None

This course will be presented through lectures, web resources and hands-on activities.

**Instructor:** Mrs. Overdorff

**Length of Course/Credits:** Semester Long/ 0.5 credits

**Course Materials Fee:** \$15

**Description:** This course is an integrated Science, Technology, Engineering and Mathematics (STEM) course for 7<sup>th</sup> grade. This course is designed to foster a learning environment in which students are guided to produce original ideas and objects using environmental science as the basis of investigation. Students will be given the opportunity to develop skills and understanding of course concepts through hands-on activities, projects and problem based learning. This course will challenge students to hone their interpersonal skills, creative abilities and understanding of the design process. No prior knowledge is required to be successful in this course.

Please be aware that during this semester I plan to show video clips and full educational videos. I preview and vet all videos both clips and full length. They are used to enhance and enrich the STEM course content. A movie permission form will be sent home in your student's homeroom. Please make sure you sign and return this form.

**Course Content:** (not in order)

- \* Build ROV's
- \* Electricity and circuits
- \* 3-D design and printing
- \* Basic computer programming/coding
- \* Bio Med/Nanotechnology

**Grading Procedure:**

Tests: 40%

Projects, Presentations and Performance: 30%

Homework, Participation and Class Work: 30%

**Scale:**

A 100 - 90

B 89 - 80

C 79 - 70

D 69 - 60

F 59 - 0