

STEM education

LEVEL 1

Introduction to STEM SIXTH GRADE CURRICULUM

What is STEM?

STEM represents the fields of **S**cience, **T**echnology, **E**ngineering, and **M**athematics. This course is designed as an introductory overview of practical theories and practices of these fields and how they are implemented in the real world.

Canvas Learning Platform



Canvas is home to all assignments for this STEM Course. Once in Canvas, students will see the STEM Course Tile shown above.

All assignments will be built into weekly modules and include:

- A weekly overview
- The Science World Weekly Activities
- The Digital Tools Weekly Activities
- The Projects and/or Skills Activities

How is this course graded?

Projects = 50% of overall grade

- Magnetic Levitation Vehicle
- Truss Bridges
- Rockets
- Theme Park Ride Design
- Marble Runs

Digital Tools = 15% of overall grade

- Presentations Certification
- Web Design Certification

Skills = 15% of overall grade

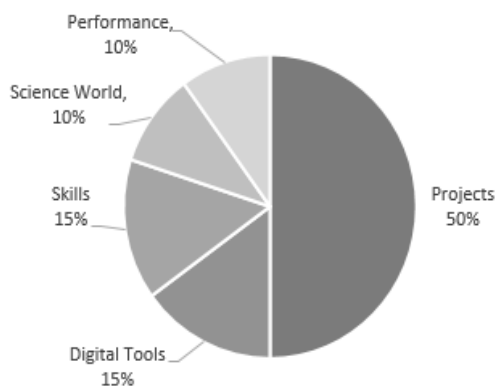
- Customary Measurements
- Coordinate Grids
- Research
- Models

Science World = 10% of grade

- Science World Magazine
- Current Events

Performance = 10% of grade

- Weekly Performance and Effort



All grades can be found on
the Focus Parent Portal

Grades are updated weekly

STEM Activity Fee

\$15.00

This course uses non-traditional building materials from various vendors. We collect a \$15 activity fee to buy these materials to ensure students get a fun hands-on experience. See attached form for more information.

Online Payments via eFunds for Schools

Please see the form attached for more information about online payments

Checks or Cash Payments

Please submit any cash or checks to Mr. Miller.

Please make checks payable to Deerlake Middle School

School Schedule & Rotations

A Period

9:30 a.m. to 10:25 a.m.

B Period

10:29 a.m. to 11:19 a.m.

C Period

11:23 a.m. to 1:05 p.m.

1st Lunch → 11:25 a.m. to 11:55 a.m.

2nd Lunch → 12:30 p.m. to 1:00 p.m.

D Week Rotation | A • B • C • D • E • F

D Week Schedule | Rotation #1

D Period → 1:11 p.m. to 2:01 p.m.

E Period → 2:05 p.m. to 2:55 p.m.

F Period → 2:59 p.m. to 3:50 p.m.

E Week Rotation | A • B • C • E • F • D

E Week Schedule | Rotation #2

E Period → 1:11 p.m. to 2:01 p.m.

F Period → 2:05 p.m. to 2:55 p.m.

D Period → 2:59 p.m. to 3:50 p.m.

F Week Rotation | A • B • C • F • D • E

F Week Schedule | Rotation #3

F Period → 1:11 p.m. to 2:01 p.m.

D Period → 2:05 p.m. to 2:55 p.m.

E Period → 2:59 p.m. to 3:50 p.m.

CONTACT

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Level 1

Introduction to STEM

6th Grade | Mr. Miller

Level 2

Intermediate STEM

7th Grade | Mr. Miller

Level 3

Advanced STEM

8th Grade | Ms. Knauf

1ST Nine Weeks | August to October 2024

WEEK #1 D WEEK A • B • C • D • E • F	
AUGUST 12	Welcome to STEM / Polices & Procedures
AUGUST 13	Polices & Procedures / Science World
AUGUST 14	Polices & Procedures / STEM Challenge
AUGUST 15	Polices & Procedures / 5 Things Presentation
AUGUST 16	POLICIES & PROCEDURES / STEM Challenge
WEEK #2 E WEEK A • B • C • E • F • D	
AUGUST 19	Science World Magazine → Current Events
AUGUST 20	Project #1 → Magnetic Levitation Vehicles
AUGUST 21	Project #1 → Magnetic Levitation Vehicles
AUGUST 22	Project #1 → Magnetic Levitation Vehicles
AUGUST 23	UCertify Digital Tools → Presentations
WEEK #3 F WEEK A • B • C • F • D • E	
AUGUST 26	Science World Magazine → Current Events
AUGUST 27	Project #1 → Magnetic Levitation Vehicles
AUGUST 28	Project #1 → Magnetic Levitation Vehicles
AUGUST 29	Skill #1 → Customary Measurements
AUGUST 30	UCertify Digital Tools → Presentations
WEEK #4 D WEEK A • B • C • D • E • F	
SEPTEMBER 02	LABOR DAY HOLIDAY → NO SCHOOL
SEPTEMBER 03	Science World Magazine → Current Events
SEPTEMBER 04	Skill #1 → Customary Measurements
SEPTEMBER 05	Skill #1 → Customary Measurements
SEPTEMBER 06	UCertify Digital Tools → Presentations
WEEK #5 E WEEK A • B • C • E • F • D	
SEPTEMBER 09	Science World Magazine → Current Events
SEPTEMBER 10	Project #2 → Truss Bridge Project
SEPTEMBER 11	Project #2 → Truss Bridge Project
SEPTEMBER 12	Project #2 → Truss Bridge Project
SEPTEMBER 13	UCertify Digital Tools → Presentations
WEEK #6 F WEEK A • B • C • F • D • E	
SEPTEMBER 16	Science World Magazine → Current Events
SEPTEMBER 17	Project #2 → Truss Bridge Project
SEPTEMBER 18	Project #2 → Truss Bridge Project
SEPTEMBER 19	Project #2 → Truss Bridge Project
SEPTEMBER 20	UCertify Digital Tools → Presentations
WEEK #7 D WEEK A • B • C • D • E • F	
SEPTEMBER 23	Science World Magazine → Current Events
SEPTEMBER 24	Project #2 → Truss Bridge Project
SEPTEMBER 25	Project #2 → Truss Bridge Project
SEPTEMBER 26	Project #2 → Truss Bridge Project
SEPTEMBER 27	UCertify Digital Tools → Presentations
WEEK #8 E WEEK A • B • C • E • F • D	
SEPTEMBER 30	Science World Magazine → Current Events
OCTOBER 01	Skill #2 → Coordinate Grids
OCTOBER 02	Skill #2 → Coordinate Grids
OCTOBER 03	FALL HOLIDAY → NO SCHOOL
OCTOBER 04	UCertify Digital Tools → Presentations
WEEK #9 F WEEK A • B • C • F • D • E	
OCTOBER 07	Science World Magazine → Current Events
OCTOBER 08	Project #3 → Rockets
OCTOBER 09	Project #3 → Rockets
OCTOBER 10	Project #3 → Rockets
OCTOBER 11	UCertify Digital Tools → Presentations Last Day to Certify for Presentations
WEEK #10 D WEEK A • B • C • D • E • F	
OCTOBER 14	Science World Magazine → Current Events
OCTOBER 15	Project #3 → Rockets
OCTOBER 16	Project #3 → Rockets
OCTOBER 17	Project #3 → Rockets
OCTOBER 18	Project #3 → Rockets ***** END OF FIRST NINE WEEKS *****

Please Note:

Some smaller activities may be shifted or dropped to allow for Deerlake Events or State Mandated Testing.

2ND Nine Weeks | October to December 2024

WEEK #11 E WEEK A • B • C • E • F • D	
OCTOBER 21	TEACHER PLANNING DAY → NO SCHOOL
OCTOBER 22	Science World Magazine → Current Events
OCTOBER 23	Project #3 → Rocket Launch Day #1
OCTOBER 24	Project #3 → Rocket Launch Day #2
OCTOBER 25	UCertify Digital Tools → Web Design
WEEK #12 F WEEK A • B • C • F • D • E	
OCTOBER 28	Science World Magazine → Current Events
OCTOBER 29	Project #4 → Theme Park Ride Design
OCTOBER 30	Project #4 → Theme Park Ride Design
OCTOBER 31	Project #4 → Theme Park Ride Design
NOVEMBER 01	UCertify Digital Tools → Web Design
WEEK #13 D WEEK A • B • C • D • E • F	
NOVEMBER 04	Science World Magazine → Current Events
NOVEMBER 05	Project #4 → Theme Park Ride Design
NOVEMBER 06	Project #4 → Theme Park Ride Design
NOVEMBER 07	Project #4 → Theme Park Ride Design
NOVEMBER 08	UCertify Digital Tools → Web Design
WEEK #14 E WEEK A • B • C • E • F • D	
NOVEMBER 11	VETERAN'S DAY HOLIDAY – NO SCHOOL
NOVEMBER 12	Science World Magazine → Current Events
NOVEMBER 13	Research Skill #1 – Florida Snake Research
NOVEMBER 14	Research Skill #1 – Florida Snake Research
NOVEMBER 15	UCertify Digital Tools → Web Design
WEEK #15 F WEEK A • B • C • F • D • E	
NOVEMBER 18	Science World Magazine → Current Events
NOVEMBER 19	Skill #3 → Models: Snake Anatomy Model
NOVEMBER 20	Skill 3 → Models: Snake Anatomy Model
NOVEMBER 21	Skill 3 → Models: Snake Anatomy Model
NOVEMBER 22	UCertify Digital Tools → Web Design
THANKSGIVING BREAK *****	
NOVEMBER 25	THANKSGIVING BREAK → NO SCHOOL
NOVEMBER 26	THANKSGIVING BREAK → NO SCHOOL
NOVEMBER 27	THANKSGIVING BREAK → NO SCHOOL
NOVEMBER 28	THANKSGIVING BREAK → NO SCHOOL
NOVEMBER 29	THANKSGIVING BREAK → NO SCHOOL
WEEK #16 D WEEK A • B • C • D • E • F	
DECEMBER 02	Science World Magazine → Current Events
DECEMBER 03	Project #5 → Marble Runs
DECEMBER 04	Project #5 → Marble Runs
DECEMBER 05	Project #5 → Marble Runs
DECEMBER 06	UCertify Digital Tools → Web Design
WEEK #17 E WEEK A • B • C • E • F • D	
DECEMBER 09	Science World Magazine → Current Events
DECEMBER 10	Project #5 → Marble Runs
DECEMBER 11	Project #5 → Marble Runs
DECEMBER 12	Project #5 → Marble Runs
DECEMBER 13	UCertify Digital Tools → Web Design Last Day to Certify for Web Design
WEEK #18 F WEEK A • B • C • F • D • E	
DECEMBER 16	Project #5 → Marble Runs
DECEMBER 17	Project #5 → Marble Runs
DECEMBER 18	Midterm Exams: A Period Midterm Exams: A Period
DECEMBER 19	Midterm Exams: C Period Midterm Exams: D Period
DECEMBER 20	Midterm Exams: E Period Midterm Exams: F Period ***** END OF SECOND NINE WEEKS *****

WINTER BREAK

STARTS: Saturday, December 21st **ENDS:** Tuesday, January 7th
STUDENTS RETURN: Wednesday, January 8th