



**STEM ACADEMY**

Parent Information Meeting

# Administrators and Counselors



Mrs. Woodall



Mr. Fore



Mrs. Martinez



Mr. Streitz



Mrs. Roberts



Mr. Williams



# Designers



Mr. Borneman



Mrs. Barrett



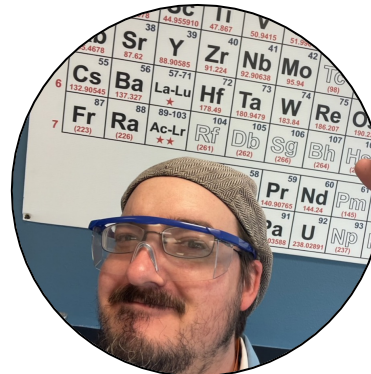
Mr. Bushdiecker



Ms. Chinchilla



Mrs. Christopher



Mr. Clark



Mrs. Eskridge



Ms. Fisher



# Designers



Mrs. Gross



Mrs. Hibdon



Mrs. Hines



Mr. Johnson



Mrs. Nunez



Mr. Shortes



Mr. Whalin



Ms. Whitney



# Learners



Bright Evbie



KK Madu



Zachary Rubio



# Agenda

What is STEM

Who can attend

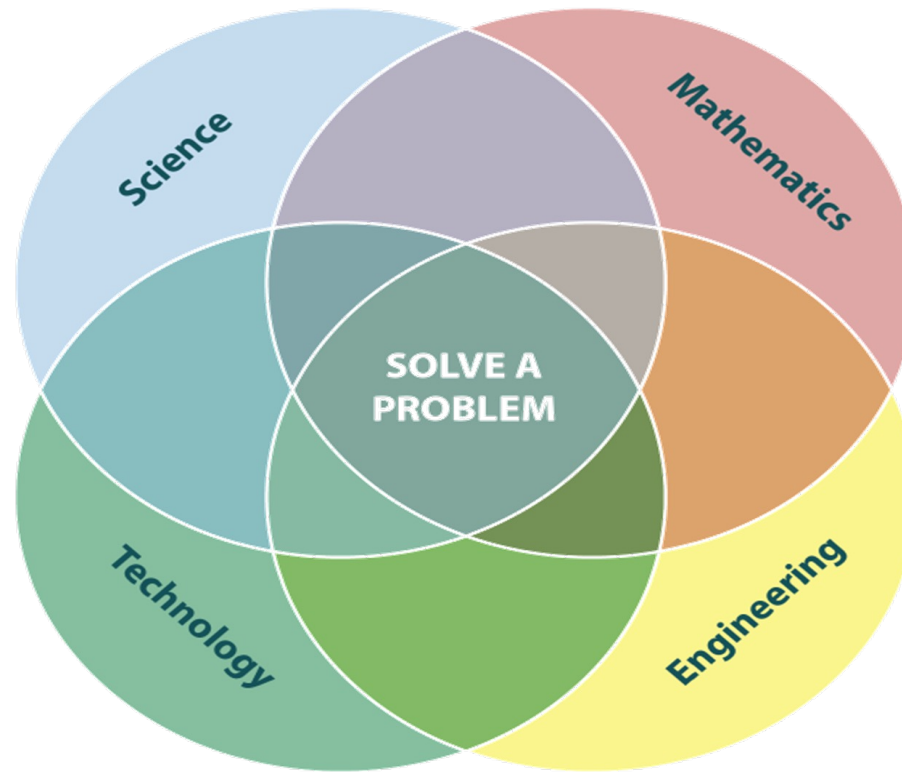
What makes us different

How to apply

Questions



# What is STEM



Explore... Create... Innovate

# What is STEM



## Learners Today, Leaders Tomorrow

The mission of Frontier STEM Academy is to ignite passion in STEM learners through collaboration and innovative thinking focused on real-world challenges.





# Agenda

What is STEM

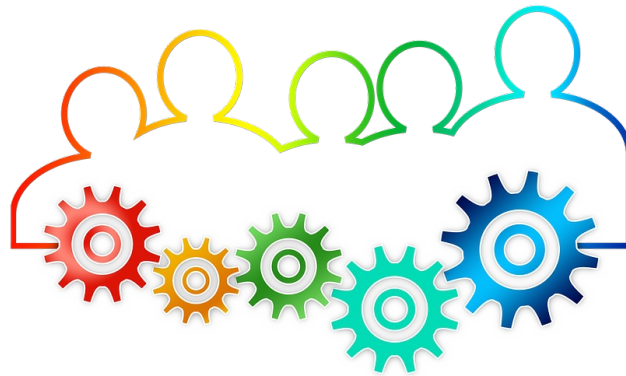
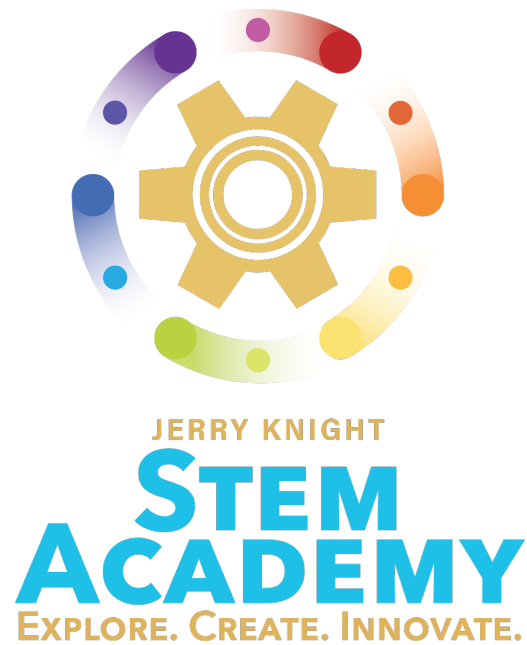
Who can attend

What makes us different

How to apply

Questions

## Who can attend



85 combined average in Math, Science, Social Studies and ELAR for 7<sup>th</sup> and 8<sup>th</sup> grade

Score of Meets or Masters on the Algebra 1 EOC at the end of 8<sup>th</sup> grade





# Agenda

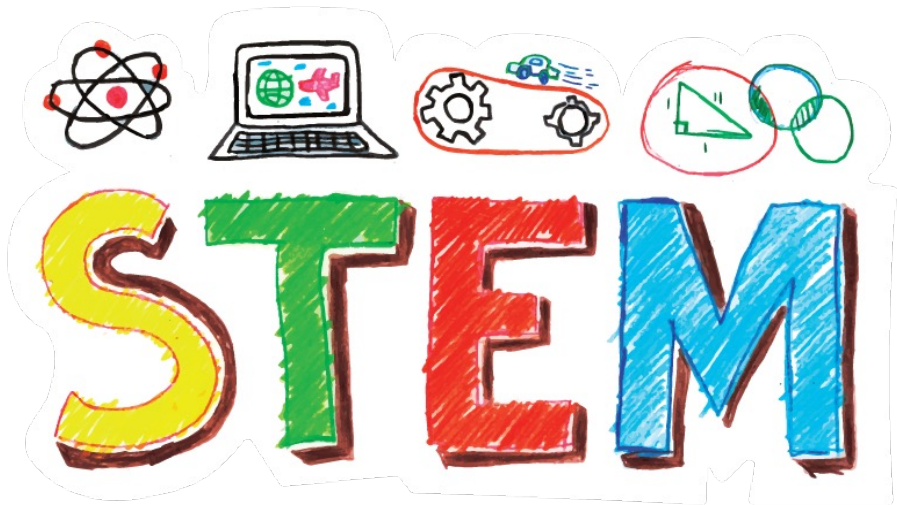
What is STEM

Who can attend

What makes us different

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Questions



**BOOTCAMP**

## What makes us different

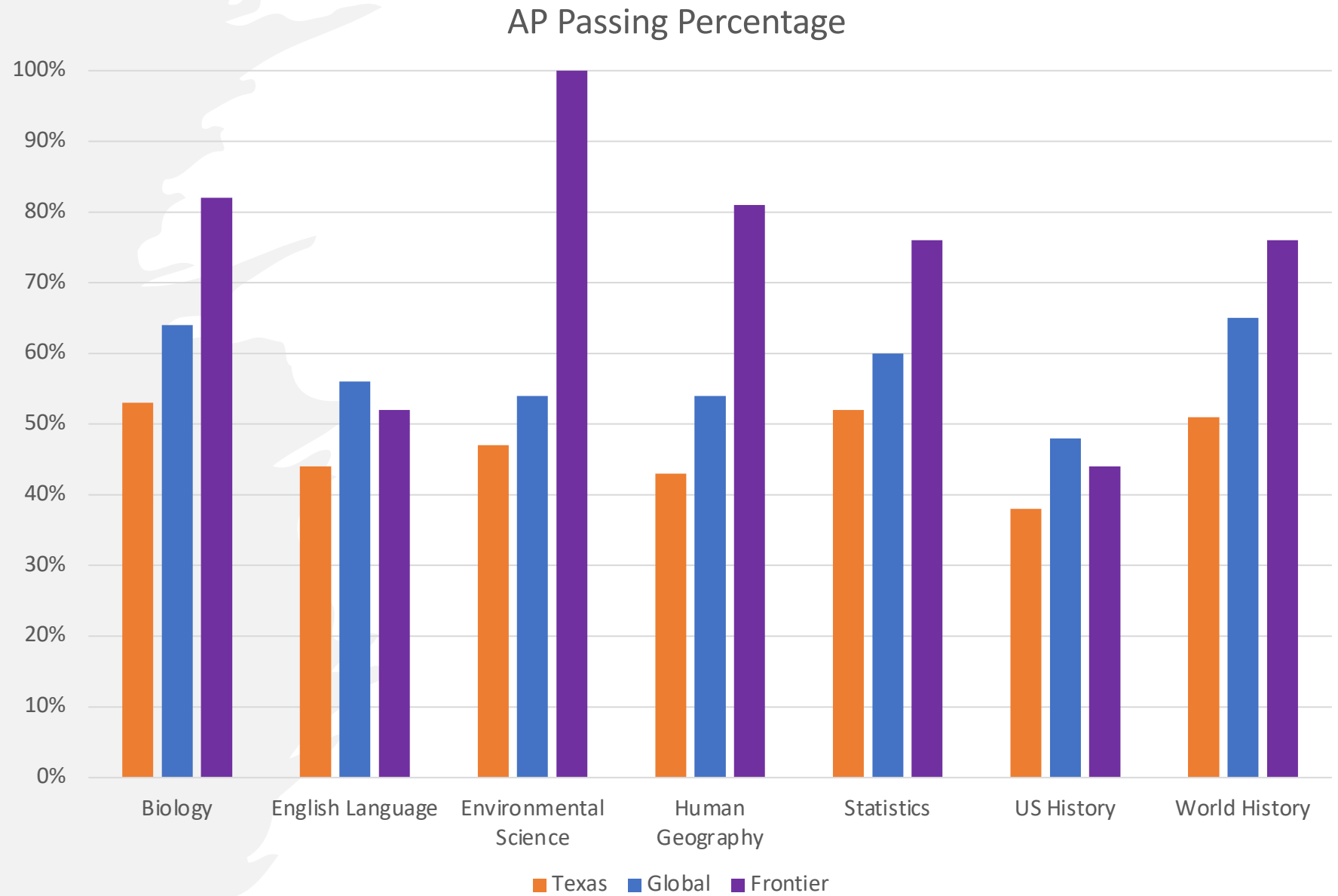
- All incoming 9<sup>th</sup> grade learners
- July 30, 2024
- Experience the engineering design process
- Growth mindset
- Familiarize learner with campus and staff



# What makes us different

End of Course Exams 2023					
		Did Not Meet	Approaches	Meets	Masters
Biology	State	11%	42%	35%	22%
	Frontier	0%	0%	18%	82%
English I	State	29%	17%	40%	14%
	Frontier	0%	0%	16%	84%
English II	State	26%	18%	47%	9%
	Frontier	0%	0%	41%	59%
US History	State	5%	24%	32%	39%
	Frontier	0%	0%	13%	87%

What makes  
us different



What makes us different

DESIGN  
TIME



STEM  
FIELD TRIPS

Clubs



# 9<sup>th</sup> Grade

A1	A2	A3	Lunch	A4	A5
7:00 - 8:20	8:22 - 9:42	9:44 - 11:04	11:06 - 11:46	11:48 - 1:08	1:10 - 2:30
B1	B2	Lunch	B3	B4	B5
7:00 - 8:25	8:30 - 10:00	10:05 - 10:40	10:45 - 11:25	11:30 - 12:55	1:00 - 2:30
			iStem 9		
Ben Barber either first session or second session					

Math	Advanced Geometry
Science	Advanced Biology
	Advanced Chemistry
ELAR	Advanced English 1
Social Studies	AP Human Geography
Ben Barber Class	B Day AM <i>or</i> B Day PM



# Ben Barber Innovation Academy Intro Courses

AP Computer Science Principles	Principles of Agriculture
Automotive Basics	Principles of Bus, Mark, and Finance
Computer Science 1	Principles of Construction
Entrepreneurship	Principles of Education
Foundations of Cybersecurity	Principles of Law
Intro to Culinary Arts	Principles of Manufacturing
Intro to Engineering	Small Animal/Equine Science
LOTE	Robotics 1
Medical Terminology	Video Game Design



# 10<sup>th</sup> Grade

A1	A2	Lunch	A3	A4	A5
7:00 - 10:00		10:05 - 10:40	10:45 - 11:25	11:30 - 2:30	
Ben Barber			iStem 10	Ben Barber	
B1	B2	B3	Lunch	B4	B5
7:00 - 8:20	8:22 - 9:42	9:44 - 11:04	11:06 - 11:46	11:48 - 1:08	1:10 - 2:30

Math	Advanced Algebra 2
Science	Advanced Chemistry
	AP Physics 1
ELAR	Advanced English 2
Social Studies	AP World History
Ben Barber Class	A Day AM <i>and</i> A day PM





# 11<sup>th</sup> Grade

A1	A2	A3	Lunch	A4	A5
7:00 - 8:20	8:22 - 9:42	9:44 - 11:04	11:06 - 11:46	11:48 - 1:08	1:10 - 2:30
B1	B2	Lunch	B3	B4	B5
7:00 - 10:00		10:05 - 10:40	10:45 - 11:25	11:30 - 2:30	
Ben Barber			iStem 11	Ben Barber	

Math	AP Pre-Calculus
	AP Statistics
Science	AP Physics 1
	AP Chemistry
	AP Biology
	AP Environmental Science
ELAR	AP English 3
	TCC English 3
Social Studies	AP US History
	TCC US History
Ben Barber Class	B Day AM <i>and</i> B day PM



# 12<sup>th</sup> Grade

A1	A2	A3	Lunch	A4	A5
7:00 - 8:20	8:22 - 9:42	9:44 - 10:40	10:45 - 11:25	11:30 - 2:30	
		iStem 12/FF 12		Ben Barber / Internship	
B1	B2	B3	Lunch	B4	B5
7:00 - 8:20	8:22 - 9:42	9:44 - 10:40	10:45 - 11:25	11:30 - 2:30	
		iStem 12/FF 12		Ben Barber / Internship	

Math	AP Pre-Calculus
	AP Calculus BC
	AP Statistics
	TCC College Algebra/ TCC Pre-Cal
Science	AP Chemistry
	AP Physics C-M
	AP Biology
	AP Environmental Science
ELAR	AP English 4
	TCC English 4
Social Studies	AP Government/Economics
	TCC Government/Economics
Ben Barber Class	PM on A <i>and</i> B day



# 9<sup>th</sup> – 12<sup>th</sup> Grade

	9th Grade	10th Grade	11th Grade	12th Grade
Math	Advanced Geometry	Advanced Algebra 2	AP Pre-Calculus	AP Pre-Calculus
			AP Statistics	AP Calculus BC
				AP Statistics
				TCC College Algebra/TCC Pre-Cal
Science	Advanced Biology	Advanced Chemistry	AP Physics 1	AP Chemistry
	Advanced Chemistry	AP Physics 1	AP Chemistry	AP Physics C-M
			AP Biology	AP Biology
			AP Environmental Science	AP Environmental Science
ELAR	Advanced English 1	Advanced English 2	AP English 3	English 4
			TCC English 3	TCC English 4
Social Studies	AP Human Geography	AP World History	AP US History	AP Government/Economics
			TCC US History	TCC Government/Economics
Ben Barber Class	B Day AM <i>or</i> B Day PM	A Day AM <i>and</i> A Day PM	B Day AM <i>and</i> B Day PM	A Day PM <i>and</i> B Day PM





# Other Required Courses

## Fine Art (1 credit)

- Art 1
- Theater Arts 1
- Orchestra

PE  
(1 credit)

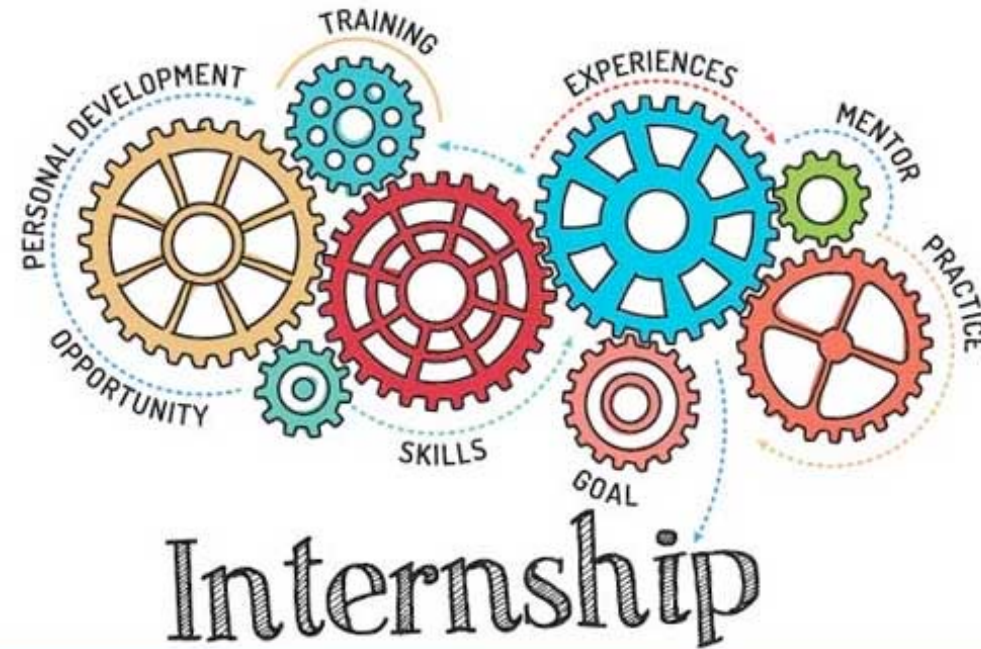
Health  
(.5 credit)

Professional  
Communications  
(.5 credit)

Languages Other  
Than English  
(2 credits of same  
language)



Unique  
internship  
opportunities  
during senior  
year



What makes us different

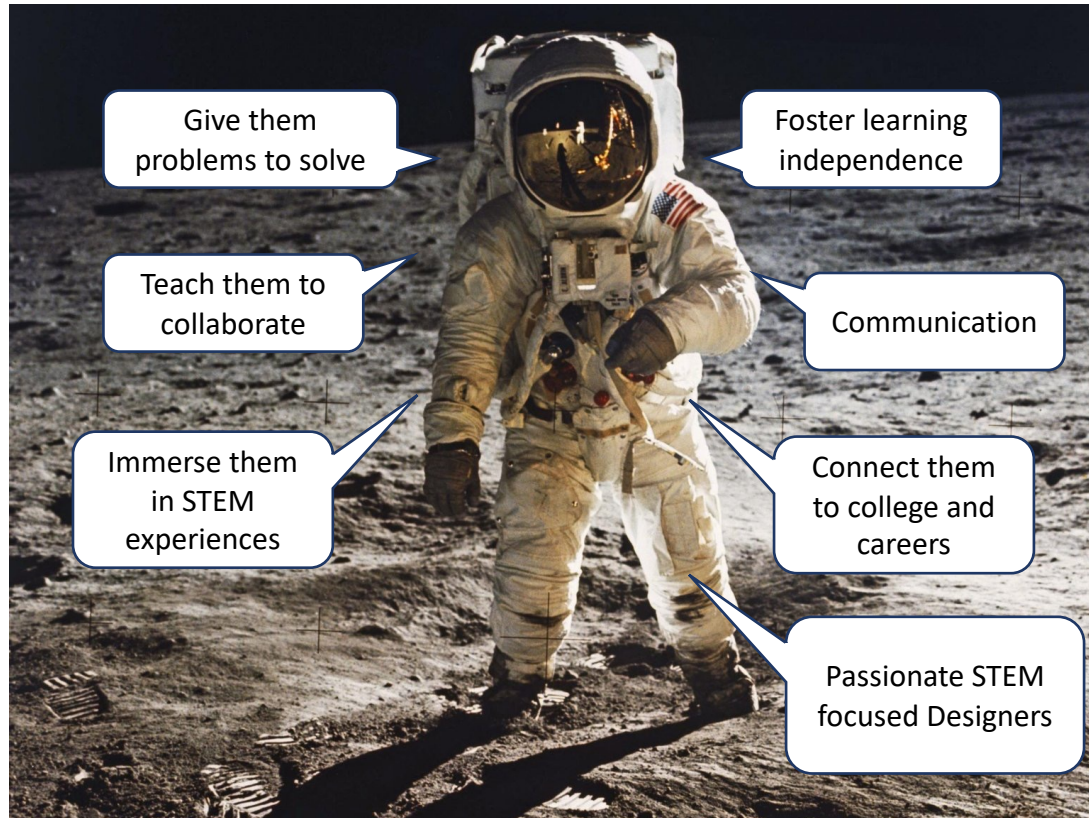
DESIGN  
TIME



STEM  
FIELD TRIPS

Clubs

How will we create a STEM culture at Frontier STEM Academy?



**STEM**  
**FIELD TRIPS**



What makes us different

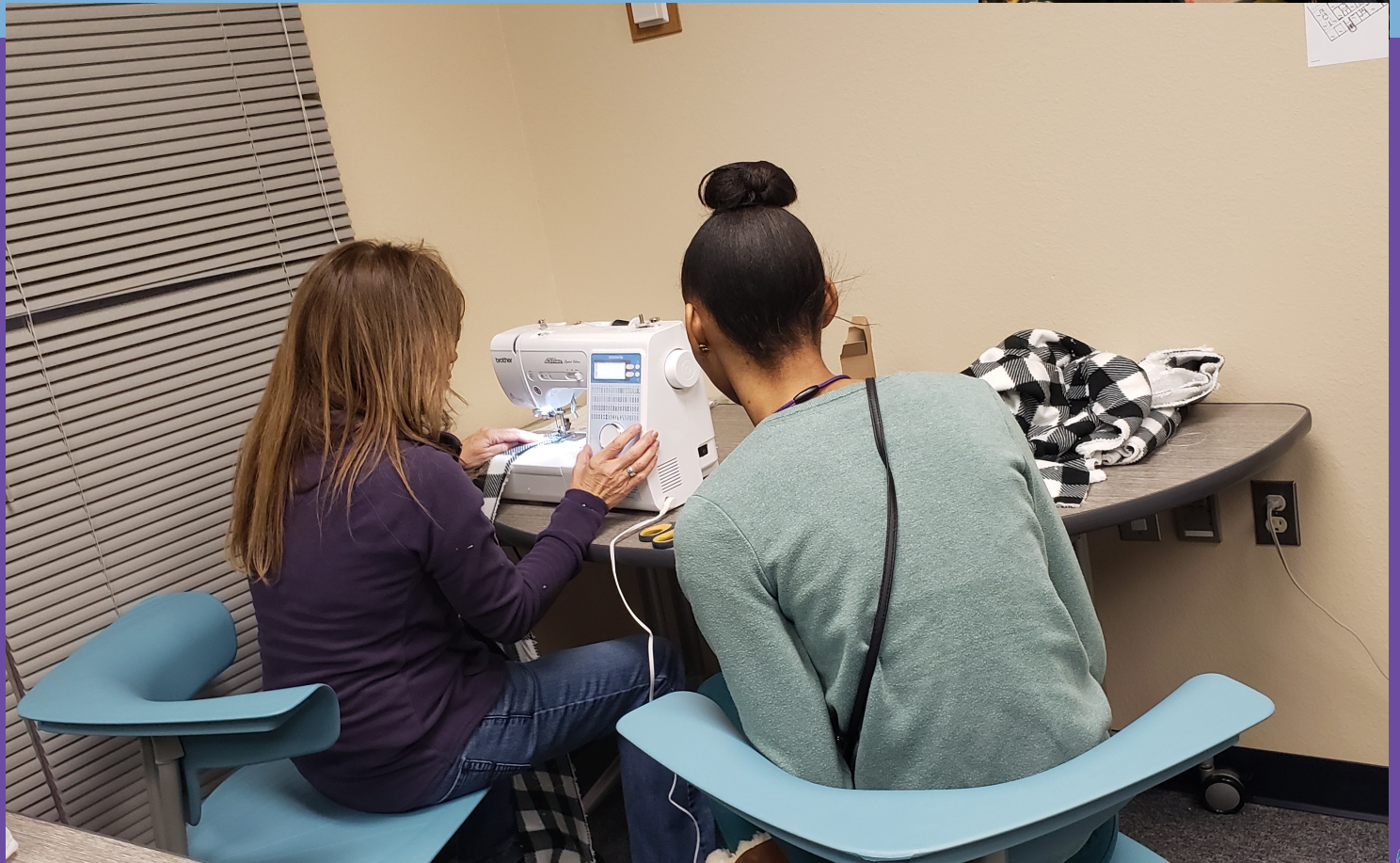
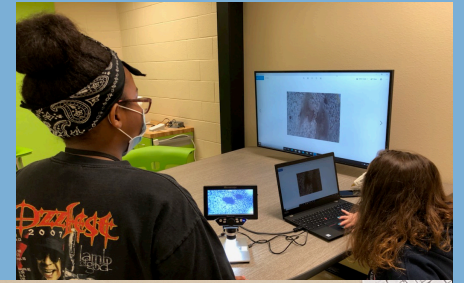
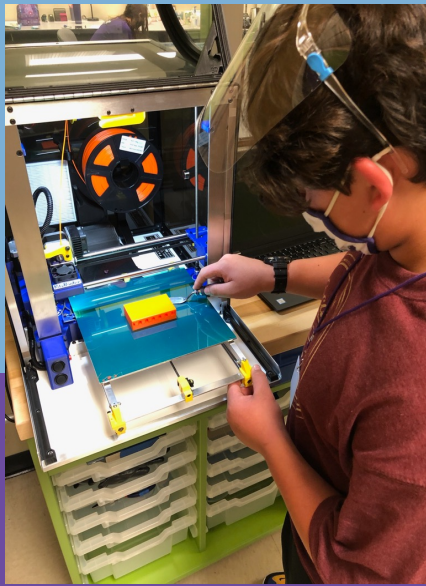
DESIGN  
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STEM  
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DESIGN  
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What makes us different

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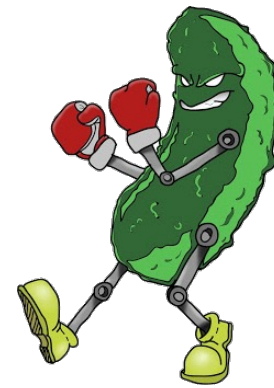


STEM  
FIELD TRIPS

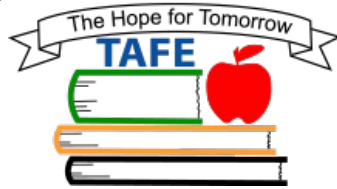
Clubs



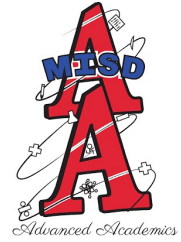
**THE WILD**  
SIX SCHOOLS ONE VOICE



**DECA**



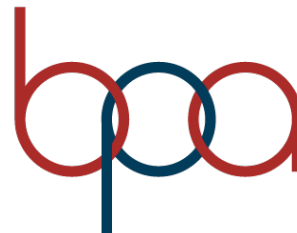
Future Medical  
Professionals



High School  
Esports League

Clubs

**SkillsUSA**







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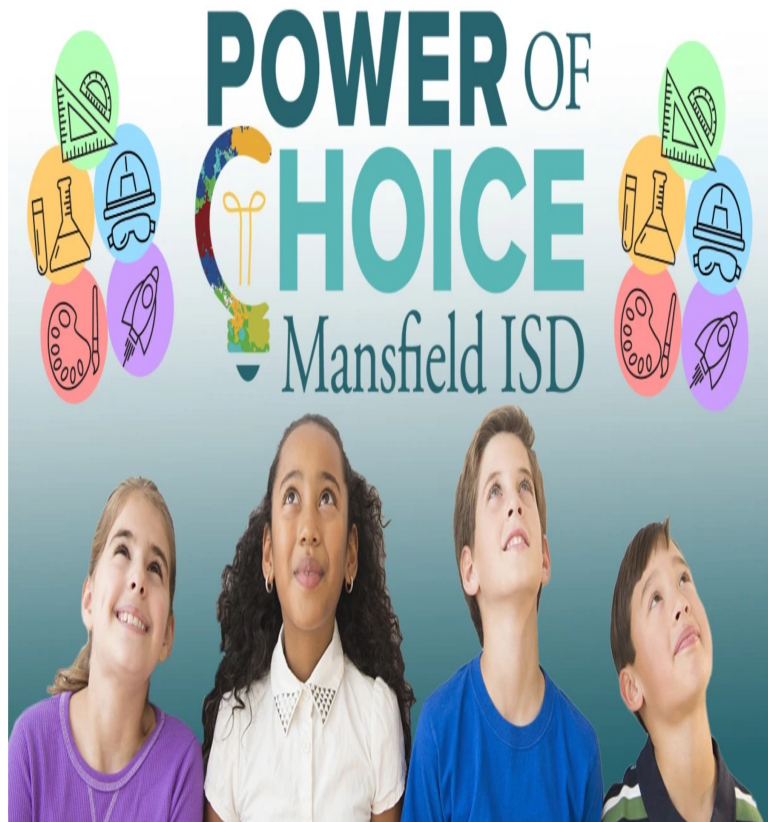
How to apply

Questions



All must  
apply to be  
eligible to  
attend  
Frontier  
STEM  
Academy





How to apply





<https://www.mansfieldisd.org/student-central/power-of-choice>

Frontier STEM Academy

 SKYWARD  OUR SCHOOLS  FIND IT FAST  TRANSLATE

ABOUT US | [Apply](#) / History & Facts / Bell Schedule / Directions / Clubs

HOME > ABOUT US > APPLY

## Apply

Frontier STEM Academy is an academic high school designed to provide rigorous and hands-on learning opportunities with an emphasis on science, technology, engineering and mathematics (STEM).

Some of the unique learning opportunities include project-based learning, innovative makerspaces, collaborative spaces, first option in Ben Barber courses and STEM internship opportunities with industry partners.

**Application Requirements:**

- Be a freshman at the beginning of the fall to enter the academy.
- Have successfully completed Algebra I and met or mastered the Algebra I End-of-Course exam.
- Have at least an 85% average in Math, Science, Social Studies and English for 7th and 8th grade.

*If you are interested in attending Frontier STEM Academy and currently in 9th, 10th or 11th grade, please [click here](#) to complete an interest form. Once the form is received, a Frontier counselor will contact you within 3-5 business days with more information.*

<https://frontier.mansfieldisd.org/about-us/apply>

# How to apply

# How to apply

Achievement Data/8th Grade 1st Semester Average					
<b>Algebra 1</b>	1 Point Approaching 80-84	2 Points Proficient 85-89	3 Points Accomplished 90+	Points Possible	Points Earned
				3	
<b>Math Score</b>				3	
<b>Biology</b>	1 Point Approaching 80-84	2 Points Proficient 85-89	3 Points Accomplished 90+	Points Possible	
				3	
<b>Science II</b>	1 Points Approaching 85-89	2 Points Proficient 90-94	3 Points Accomplished 95+	Points Possible	
				3	
<b>Science Score</b>				3	
<b>US History</b>	1 Point Approaching 80-84	2 Points Proficient 85-89	3 Points Accomplished 90+	Points Possible	
				3	
<b>Social Studies Score</b>				3	
<b>Language Arts 8</b>	1 Point Approaching 80-84	2 Points Proficient 85-89	3 Points Accomplished 90+	Points Possible	
				3	
<b>Language Arts Score</b>				3	

Achievement Data					
8th Grade Science STAAR Score	2 Points Approaches	4 Points Meets	6 Points Masters	Points Possible	
				6	
MOY Science MAP (Percentile)	2 Points 75-80	4 Points 81-85	6 Points 86+	Points Possible	
				6	
Science Score				6	
MOY Reading MAP (Percentile)	1 Point 75-80	3 Points 81-85	5 Points 86+	Points Possible	
				5	
Reading Score				5	
Algebra 1 Semester Exam (Percent)	1 Point 75-80	3 Points 81-85	5 Points 86+	Points Possible	
				5	
Reading Score				5	
Interview Questions					
Interview Score				12	
				Total Points Possible	Total Points Earned
TOTAL				40	



# How to apply

## Parent Meetings

- 11/16/23(FSA)
- 12/12/23 (online)

## Applications

- Opens on 12/18/23 at 9:00 am
- Closes on 1/26/24 at 4:30 pm

## Interview

- Link emailed by 2/9/24 to sign up for in-person interview
- 2/22/24 or 2/26/24 from 4:30 – 7:30 (10-minute interview slots)

## Notifications

- Emailed on 3/8/24 at 4:30 pm
- Reply by 3/22/24 at 4:30 pm

## Boot Camp

- 7/30/24



# Agenda

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# Contact Information

## Questions

Michael Fore

Academic Associate  
Principal

682-314-1566

[michaelfore@misdmail.org](mailto:michaelfore@misdmail.org)

