



# In Marble Falls ISD



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# 2018-2019 School Year

- 74 6<sup>th</sup> Grade Students
  - 51% male
  - 49% female
  - 46% low SES
  - 12% SpEd
  - 8% 504
- 2 withdrawals
- 1 to MFMS



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**What have we  
been doing?**



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# 2018-2019 School Year - PBLs

- December Academic Showcase
  - ELA & SS – Shakespeare Project (How is Shakespeare still relevant today?)
    - Acrostic poem
    - Written paper
    - Artistic element
  - Math – Mini Me
  - PBL - Vending Machine (Social Studies, Math, Engineering, ELA)
  - PLTW – Puzzle Cube



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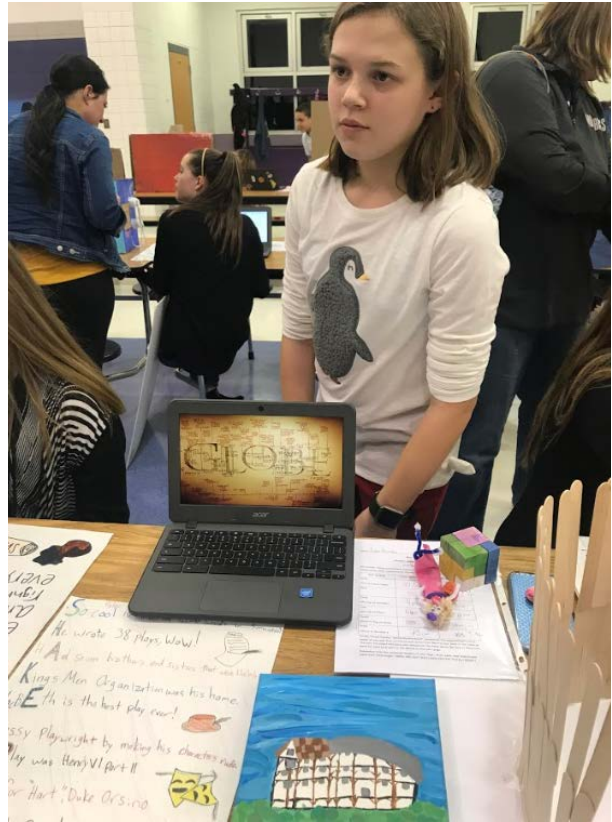
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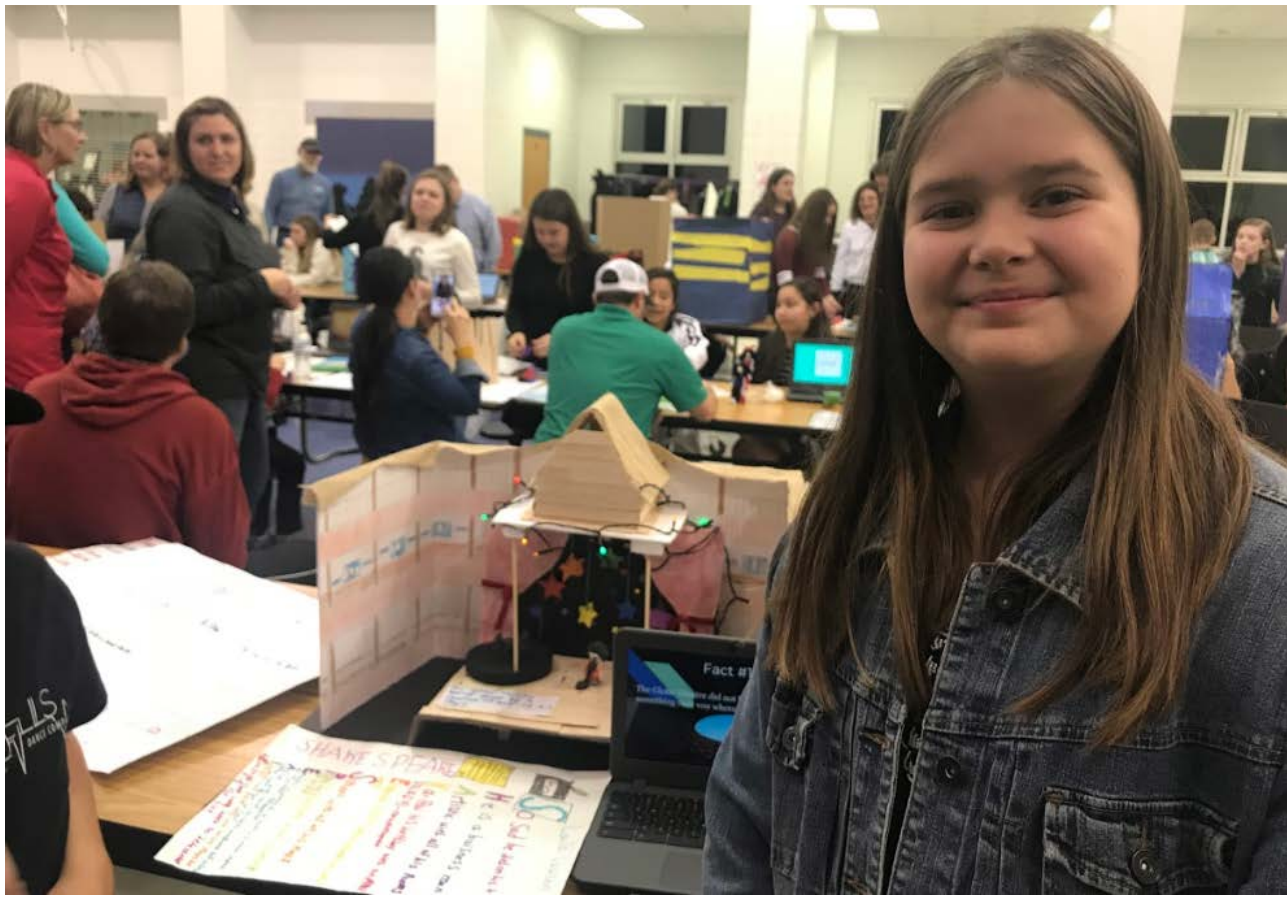
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# Fall Semester PBL – 2900 Bridge

- Essential Question: *How can we redesign the 2900 bridge to be durable, minimize damage, and benefit the community?*
  - Real-world connection – October floods and TXDOT contact
  - Introduction to the project – Field Trip to AECOM Engineering
  - All 4 core curriculum involved as well as 21<sup>st</sup> Century Skills
    - Math – ratios, proportions, percent, decimals, fractions
    - Science – force, motion, energy, rock classifications, plate tectonics
    - Social Studies – physical environment related to natural disasters, adaptation vs. modification, maps, technology influence over human interactions
    - ELAR – “Drowned City”, POV writing, persuasive writing, research, Socratic seminar
    - Technology – Sketch Up
    - Engineering – Bridge design and build



# Fall Semester PBL – 2900 Bridge

- Final Presentation

- Currently waiting on the completion of the 2900 bridge
- Students were invited by TXDOT to attend the ribbon cutting of the new 2900 bridge
- Student presentation to the TXDOT engineers at the ribbon cutting
- More information to come!



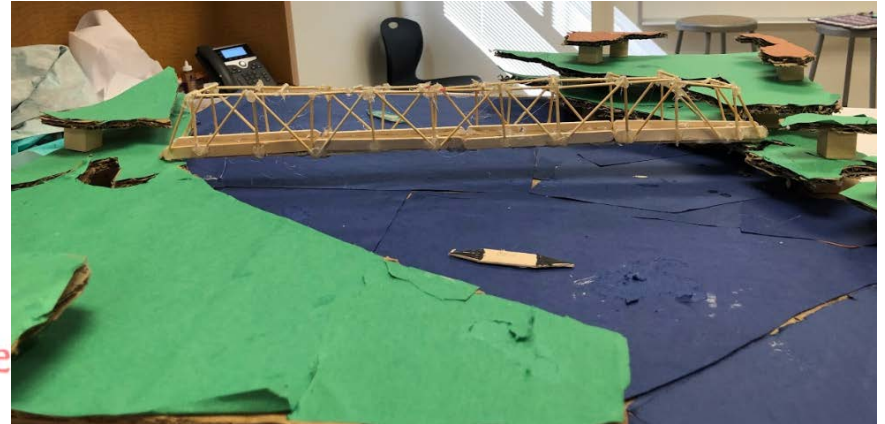
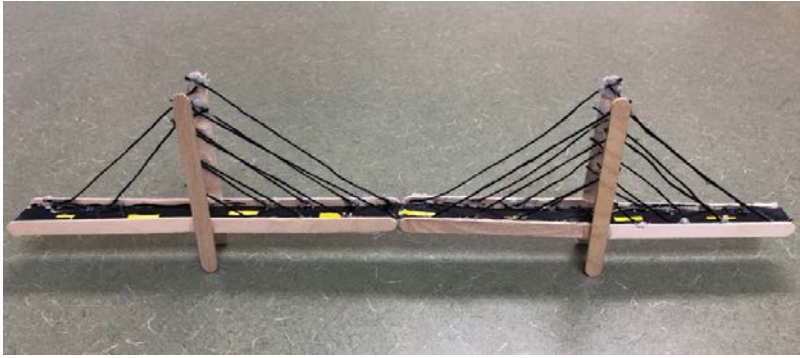
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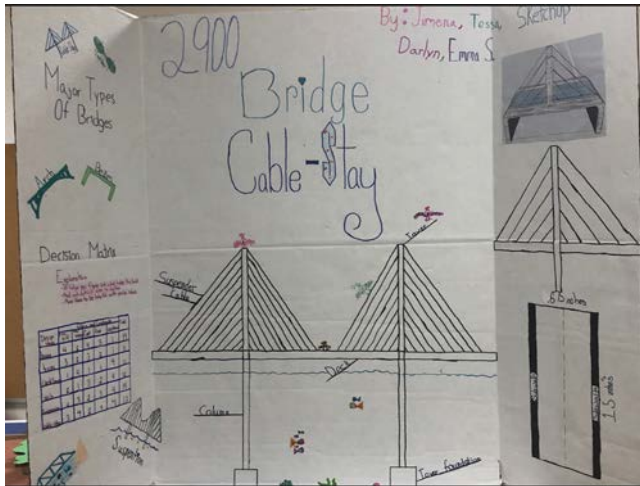
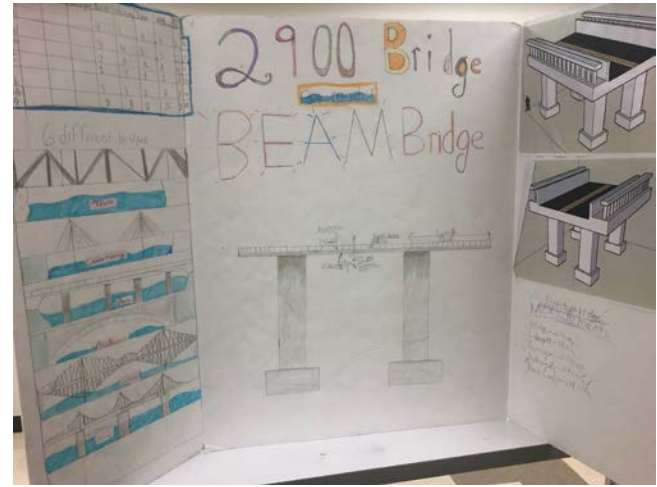
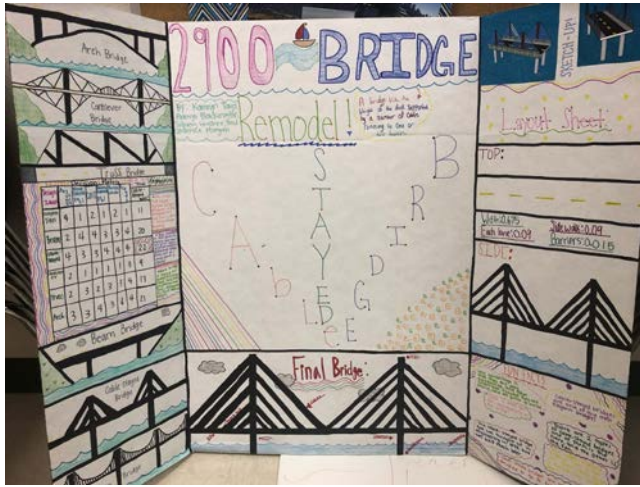




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**Criteria and Constraints**

Design ideas	Easy build	How strong	Cost	time	aesthetics	Total
beam	4	2	4	3	1	14
truss	3	2	3	2	1	11
Cantilever	1	4	1	1	4	11
arch	2	1	3	2	4	12
Suspension	2	3	2	3	4	14
Cable-stay	3	4	2	4	4	17



# Spring Semester PBL – Space Weather

- *Essential Question: How does space weather affect technological developments that impact devices, processes, and systems for the way we live now and the future of human civilization?*
  - Real-World connection – visit by retired astronaut Dr. Peggy Whitson
  - All 4 core curriculum involved as well as 21<sup>st</sup> Century Skills
    - Math – measurement and data with and without variability
    - Science – solar system, gravity, space exploration, space travel
    - Social Studies – geographic location’s effect on economics, renewable and non-renewable resources
    - ELAR – research and research plan, persuasive and informational text, mythology
    - Technology – creativity, innovation, operations, concepts
    - Engineering – critical thinking, problem solving, decision making
  - End products: space website, commercial, podcast, Flipsnack, writings, graphs, video game





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# Student growth and achievement



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# 2018-2019 School Year – Reading Benchmark (April 5<sup>th</sup>)

- STEAM Benchmark (2017 test)
- Reading (71.34% score)
  - 75.68% Approaching
  - 50% Proficient
  - 18.92% Mastery
- 2017 STAAR Results
- Reading (61.55% score)
  - 65.57% Approaching
  - 31.87% Proficient
  - 15.75% Mastery

GE	September	March
2.0 – 3.9	8 (11%)	7 (10%)
4.0 – 5.9	29 (39%)	20 (27%)
6.0 – 7.9	20 (27%)	26 (35%)
8.0 – 12+	17 (23%)	21(28%)



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# 2018-2019 School Year – Math Benchmark (April 3<sup>rd</sup>)

- STEAM Benchmark (2018 test)
- Math (53.88% score)
  - 83.78% Approaching
  - 40.54% Proficient
  - 13.51% Mastery
- 2018 STAAR Results
- Math (52.16% score)
  - 72.55% Approaching
  - 37.58% Proficient
  - 13.4% Mastery

M-STAR	September	December
Tier 1	54%	61.7%
Tier 2	31.1%	28.7%
Tier 3	14.9%	9.6%



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# Plans for 2019-2020



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# 2019-2020 School Year

- 73 - 6<sup>th</sup> Grade Students
- 74 - 7<sup>th</sup> Grade Students
- Relocate the MFISD STEAM Academy to the MFMS Campus for the 2019-2020 school year and beyond
- “School within a School” Model
- STEAM Students will have a dedicated area inside MFMS – the “D Wing” & 1 Portable
- MFMS will use 1 Additional Portable for Classes



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# 2019-2020 School Year

- STEAM Students will maintain their Humanities Block and their STEM Block
  - 7<sup>th</sup> grade PLTW Automation & Robotics and Paxton/Patterson CCR labs
- STEAM Students will attend other elective classes with their MFMS Peers (Athletics, PE, Yoga, Band, Choir, Theater, etc.)
- STEAM Students will attend lunch with their MFMS grade level peers



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# Questions?



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