

Reaching Potential *where it Lives*

The Trailblazer, TAME's traveling STEM-museum-on-wheels, invites everyone to get excited about science, tech, engineering, and math! The Trailblazer Program reaches potential where it lives, bringing innovative, interactive STEM exhibits to kids, families, and communities across Texas. What's more, students visiting the Trailblazer are stepping into a network designed to support them as they advance from after-school TAME Clubs to STEM Competitions – and on to college scholarships.

Step on board and see where the Trailblazer takes you!



The Trailblazer...
makes hearts beat a little faster



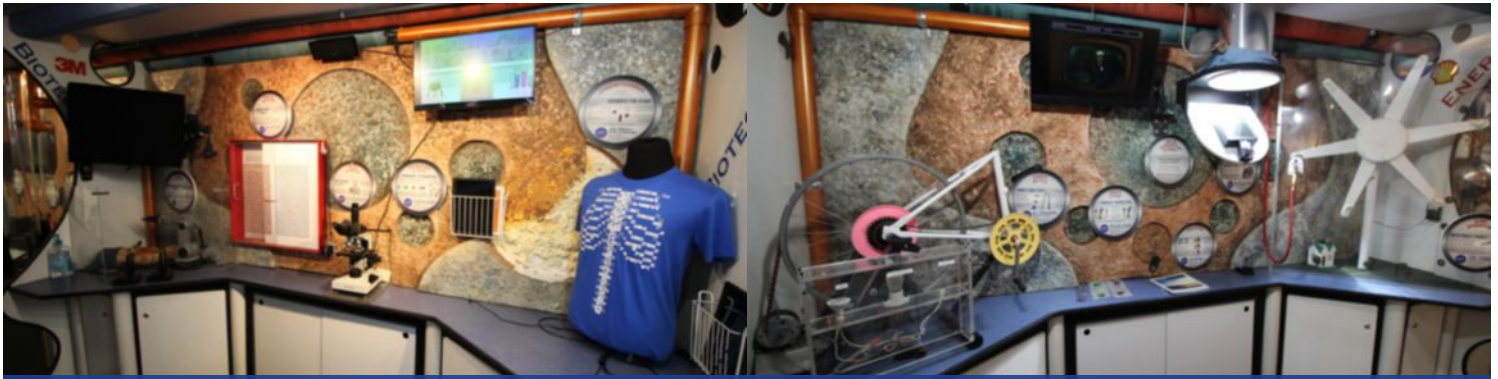
The Trailblazer...
gets kids bug-eyed



The Trailblazer...
lands the space station in your parking lot

What can you expect from a Trailblazer visit?

- » **A boost for your STEM curriculum:** The Trailblazer's engaging, hands-on exhibits are mapped to TEKS for grades 3-8. Teachers receive pre-visit activities and follow-up lesson plans and curricula.
- » **Room for the whole class (or the whole family!):** The Trailblazer is a 40-foot trailer that can accommodate 30 visitors at a time, 35-45 minutes per group – about 200 students per day.
- » **STEM excitement, delivered:** A TAME Facilitator delivers the Trailblazer to you, trains volunteers, and manages the Trailblazer experience.
- » **A fun and rewarding volunteer opportunity:** Recruit 6 volunteers (minimum age ≥ 9th grade) to serve as docents. We'll provide the training. No special experience is necessary.
- » **A great reason to throw a party:** Ask us how one of our Trailblazers can anchor your Family STEM Event!



□They showed us how much fun science can actually be.□ - *Trailblazer visitor, Hernandez Middle School – Round Rock, Texas*

CONTACT US:

For details, scheduling, and cost information contact the Trailblazer Program Coordinator:

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Interactive Exhibits on Trailblazer 1 (TB1) & Trailblazer 2 (TB2)



ENERGY

- TB1** Energy Transmission Demonstration, Energy Tubes, Hand Boilers, Hand Crank Generator, Solar Cell, Thermal Camera, Van De Graaff Generator, Videos
- TB2** Energy Transmission Demonstration, Energy Tubes, Hand Boilers, Hand Crank Generator, Impact of Insulation, Solar Cell, Wind Turbine, Videos



SPACE

- TB1** Relative Gravity Interactive, Robotic Arm, Shark Tracker, Spot the Station, Virtual Reality Spacewalk, Videos
- TB2** Relative Gravity Interactive, Shark Tracker, Spot the Station, Thermal Camera, Virtual Reality (VR) Spacewalk, Videos



BIOTECHNOLOGY

- TB1** Augmented Reality (AR) Anatomy, Digital Microscope, Digital Thermometers, Microscope & Cells, Pulse Oximeters, Stethoscopes, Videos
- TB2** Augmented Reality (AR) Anatomy, Digital Microscope, Digital Thermometers, Genetic Mutation, Pulse Oximeters, Robotic Surgery, Videos



AERODYNAMICS

- TB1** Bernoulli Experiment, Turbulence Interactive, Wind Tunnel Interactive, Videos
- TB2** Airfoil Experiment, Bernoulli's Experiment, Turbulence Interactive, Wind Tunnel Interactive, Videos



WEATHER

- TB1** Green Screen Technology, Plasma Ball Interactive, Tornado Demonstration, Tornado Tube Interactive, Videos
- TB2** Green Screen Technology, Paleoclimatology, Plasma Ball Interactive, Tornado Demonstration, Tornado Tube Interactive, Van De Graaff Generator, Weather Station, Videos

“ This opportunity that was afforded to our 8th graders was clearly a one-of-a-kind, hands-on learning experience. Every student who attended the TAME event from beginning to end left with knowledge, skills, and the feeling of □Hmm□ I want to be an engineer!□

- *Mr. Fermin Gonzales III, Memorial Middle School Principal, Edinburg, Texas*