INSIGHTS SCIENCE DISCOVERY

STEAM

Enrichment Activities for YOUR School

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DinoTracks Tours | Mobile Museum Visits | Summer Camps

STEAM Events | Afterschool Programs

Insights El Paso Science Center has provided engaging hands-on Science, Technology, Engineering, Arts, and Mathematics (STEAM) learning opportunities to the Border Region for over 40 years. As a mobile museum, Insights now brings **TEKS-aligned STEAM** enrichment activities to your school.

asc Allied States Cooperative by ESC 19

DinoTracks Tours

Did you know that Insights DinoTracks site is home to thousands of 98 million-year-old fossilized dinosaur tracks? Insights' guides will take your class on a 1.5-mile guided hiking tour of the site, visiting 10 different geology and paleontology sites. Our guides can tailor the tour to your educational needs. Topics may include: animal tracking theory, aquatic fossils, dinosaurs, trace fossils, and prehistoric crocodilians, the Rio Grande River Basin, sedimentation and erosion, volcanism, earthquakes, Chihuahuan Desert plants, and tectonic plates. Pre- and post-tour TEKS-aligned curriculum and assessments are free to school groups visiting the DinoTracks site.

DinoTracks guided hiking tours are **$12 per student** with 1 chaperone getting in free for every 10 students

Ask us about TEKS alighted Curriculum

DinoTracks Science TEKS

5th grade	**5.7(A)** explore the processes that led to the formation of sedimentary rocks and fossil fuels **5.10(A)** compare the structures and functions of different species that help them live and survive in a specific environment such as hooves on prairie animals or webbed feet in aquatic animals
6th grade	**6.10(B)** classify rocks as metamorphic, igneous, or sedimentary by the processes of their formation **6.12(F)** diagram the levels of organization within an ecosystem, including organism, population, community, and ecosystem
7th grade	**7.8(B)** analyze the effects of weathering, erosion, and deposition on the environment in ecoregions of Texas **7.5(B)** diagram the flow of energy through living systems, including food chains, food webs, and energy pyramids
8th grade	**8.9(B)** relate plate tectonics to the formation of crustal features

Pop Up Museum Visits

We bring the field trip to you

Tired of low turnout at parent-teacher conferences? Insights also offers Pop Up Museum visits, bringing mobile STEAM exhibits to your school. We'll pair our hands-on STEAM activities with engaging demonstrations for all ages.

pop–up mu·se·um

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mobile exhibits offering hands-on science, technology, engineering, arts or mathematical learning experiences across the Border Region

Engineering

Circuitry Art

Robotics

Bug Zoo

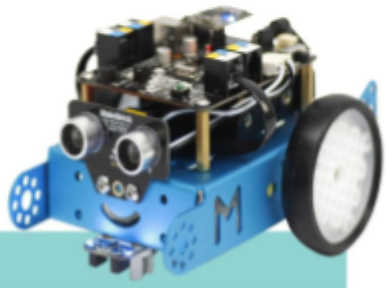
Chemistry

Robotics

Earth & Space

Drones

STEAM Fiestas



STEAM Events

Want to throw a campus-wide STEAM fiesta? We do large-scale events like our annual El Paso Space Festival and can provide whole-day or longer STEAM education workshops. **Contact us today to inquire about an event for your school.**

Pop Up Museum visits cost **range from $195 to $2,100,** varying with the length of program and number of staff required. Call for a customized quote

Perfect for:

Parent Teacher Night | Family STEM Night | Early Release Days | STEM Fairs

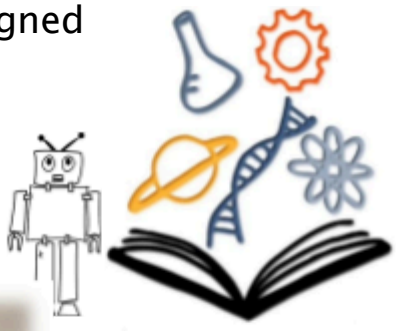
INSIGHTS ***Mobile Museum***

Summer Camps

Insights offers a variety of weeklong whole-day and half-day TEK-aligned STEAM summer camps which can be adapted for your students.

Ask us about TEKS alighted field trips

We know camps. All summer camps are designed and run by certified teachers, assisted by preservice math and science teachers. Summer camp curriculum can be adapted to grade level or custom built to meet the needs of your school.



Week-long summer camp costs **range from $90 to $225 per student,** varying with the length of program, size, and number of staff required. Call for a customized quote.

Zootopia

Let's Do Chemistry

Space Camp

Robotics

Superhero Math and Science

Space Coding

Amusement Park

Engineering

Electrical Engineering

Artificial Intelligence

Computer Science

*Insights puts the "R" in **STREAM** (science, technology, reading, engineering, art, math) by including figurative language. Students will express their understanding of machines through creative writing.*

Summer Camp Survey Responses:

"It was **truly STEAM** and we appreciated that deeply."

"I wish I could fail 7th grade so I could **come again**."

"It was hands down the **best camp** she has ever done. She is an artist who **loves science** and to see the two tie together really made her feel such happiness."

"... had a great time and thought the camp was fun, interesting and learned a whole lot! Looking forward to the next one."

INSIGHTS *Summer Camps*

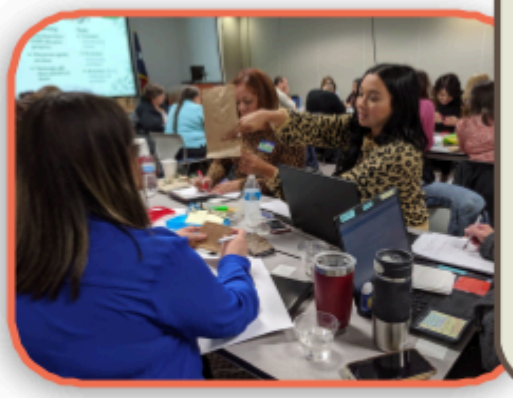
Afterschool Programs

Want to see an afterschool computer science or engineering club at your school? Ask us for more information about our afterschool computer science program or other custom STEAM programs for your campus. **Program costs range from $50 to $500 per session, depending upon the length of program, location, and staffing required.**



Professional Development

Insights provides professional development workshops for K-12 educators on a variety of STEAM curriculums, teaching practices, and resources. Aligning resources from Insights experienced education staff, professionals in the community, higher education, and Region 19, Insights offers a wide range hands-on STEAM PD Workshops. **Program costs range from $500 to $2,500 per session, depending upon the length of program, number of participants, and required.**



Integrating coding into core classes

Engineering design & entrepreneurship

Infusing STEAM in the classroom

Using arthropods as teaching aids

Artificial intelligence tools

Custom workshops developed upon request.

NEW Virtual or In-person Workshops

Science of Motion | Circuits and Electricity | Exploring Artificial Intelligence + Robotics

Being virtual won't stop Insights from bringing fun hands-on learning to your students. Insights' STEAM Workshops provide fun, hands-on STEAM enrichment activities to keep your students engaged. Each 1.5-hour workshop includes a prepared activity kit with all necessary materials, complete instructions, mini competitions, and hands-on activity guided by an in-person or live virtual workshop. Workshops provide interactive STEAM activities hosted by Insights' trained educational staff. Pre-assembled kits will be distributed to your campus for all virtual workshops.

$30 per student per workshop or $25 per student if you book all 3 workshops **(30 student minimum)**

Science of Motion

[3rd, 4th and 5th Grade] - Elastic Energy

Students will engage in the design process by first observing how energy is transformed from potential to kinetic by constructing a balloon-powered car. Then, they will identify, design, and test improvements to the car to increase its speed or distance traveled.

[Middle School] - Energy in Motion

Students will explore how energy is transformed from potential to kinetic in two ways, by constructing a balloon-powered car and rubber-band powered car. They will then be challenged to adjust the design of one of the cars to travel further and/or longer.

[High School] - Motion on Mars

Students will first learn how Mars rovers move and are powered. They will explore and build models that show how motion can be transferred into different directions (rotational to linear). Students will use a variety of materials to design and adapt the rover to deal with Mars' changing seasons- and amount of solar radiation available.

Custom workshops developed upon request.

Virtual & In-person Workshops

Exploring Artificial Intelligence + Robotics

[3rd, 4th and 5th Grade] - Reaching Out with Robotics

Students will learn about what a robot is and how we are using them. Then, they will be challenged to design and construct a robotic hand to lift and move objects. Then they'll learn about robots who can make expressions and create their own robot face, capable of movement.

[Middle School] - Neural Network and Robotic Hand

Students will participate in two challenges. First, students will be challenged with designing a robotic hand to lift and move objects. Then, they will be introduced to the concept of a neural network and design, construct, and test a system that is capable of classifying information.

[High School] - Self-Driving Car Game and Robotic Face

Students will participate in two challenges. After an introduction to and discussion on why companies, like Disney, are putting "human-like" faces on robots, students will build their own robotic face, capable of expressing emotion. Then, they will design and build a circuit and mimic the decision-making system that is used by self-driving cars.

Circuits and Electricity

[3rd, 4th and 5th Grade] - Operation-style Game

Students will first use batteries, LEDs, and wires to construct series circuits and identify energy transformations. Then, they will design and build an Operation-Style game that will test their coordination.

[Middle School] - Operation-style Game and Quiz Game

After being shown how to build series and parallel circuits, students will first design an Operation-Style game that challenges them to keep a steady hand lest they light up the LED! Then, they will use their knowledge of circuits to create a quiz game, in which the LED will only light up with the correct answer.

[High School] - Circuits and Engineering Design

After being shown how to build series and parallel circuits, students will choose 1 of 3 real-world challenges to brainstorm, design, test, and redesign a system utilizing circuits and the provided materials. The themes of the challenges will be: communication (design an informational poster/button pin), civil engineering (design a water detector), and game design (design a joystick).

INSIGHTS SCIENCE DISCOVERY

More?

Do you want more STEAM programming on your campus?

Insights collaborates with multiple districts to provide long-term, grant-funded STEAM programs like after school computer science programs, teacher workshops, or multi-year in-class environmental education programs. As a mobile, flexible STEAM education provider, we've collaborated with districts, governmental, and higher education organizations to implement grant funded programs on campuses and collaboratively applied for funding with nearly all districts. Please contact us if you're interested in pursuing funding for a program on your campus.

Occasionally, we have grant funding available to provide free services for your campus. When funding is available, it will be announced through our newsletter. Don't miss the next announcement and be sure to sign up for our monthly newsletter at **www.insightselpaso.org**.

Why are Insights' STEAM services a smart move for your school?

- **Insights knows STEAM;** we have been inspiring the next generation of engineers, computer scientists, and chemists for decades.
- **We have cool stuff!** As a mobile science museum, we have a trove of robots, circuitry sets, engineering kits, and fossils that our trained facilitators deliver via a TEK-aligned curriculum.
- Insights programs are implemented with **trained educational staff** with the help of UTEP preservice math and science teachers.
- We are **local and flexible;** we will adapt our curriculum, delivery, and materials to fit the needs of your students.

TEKS-aligned STEAM education for YOUR students

INSIGHTS ***Science Discovery***