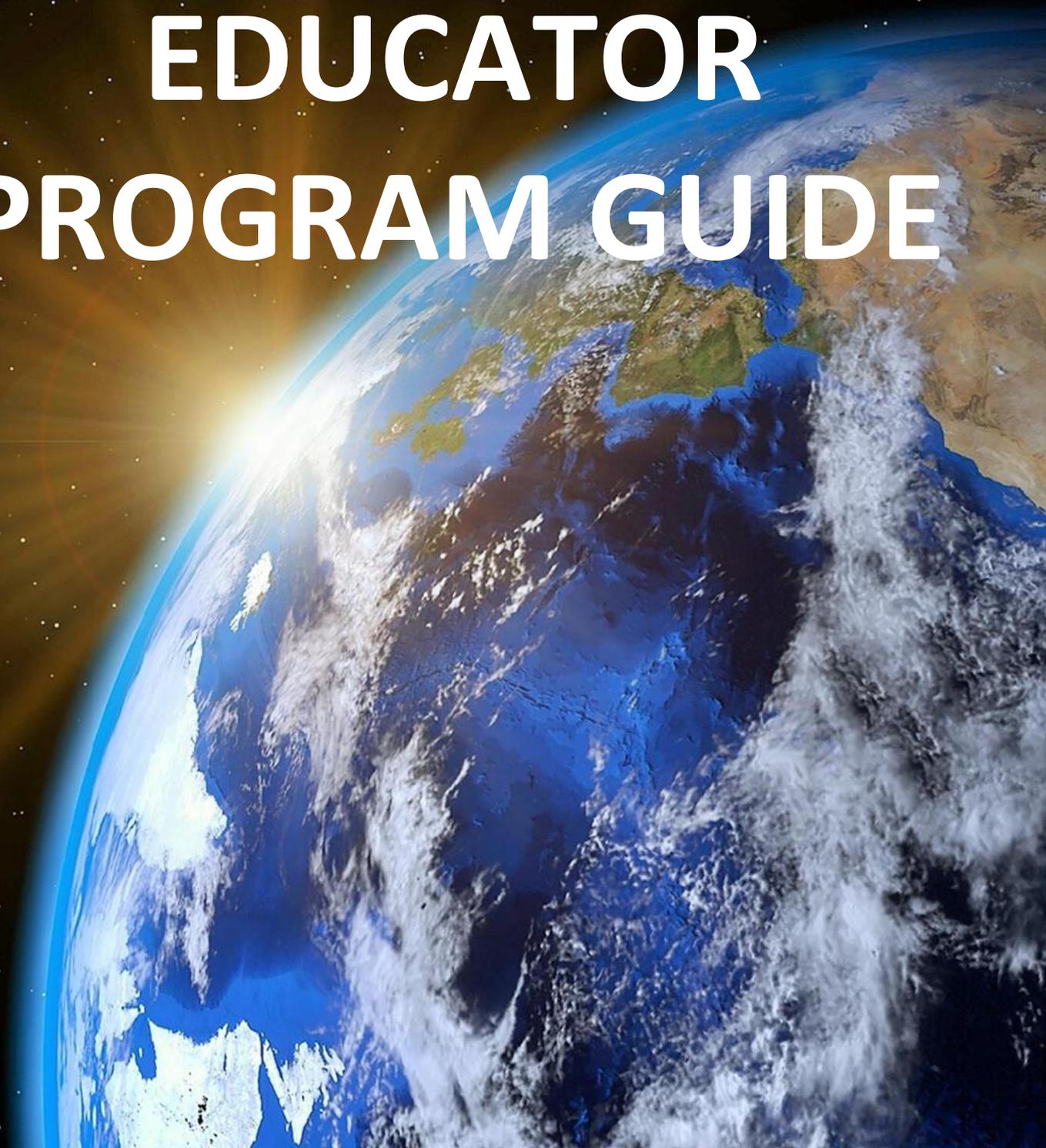


**2019-2020**

**Sci-Tech Discovery Center**

**EDUCATOR  
PROGRAM GUIDE**



# ABOUT SCI-TECH

Sci-Tech Discovery Center offers a wide variety of informal educational experiences for classes, groups, and families through interactive exhibits and programs, field trips, camps, parties, and special events. We provide programs at our site or at your campus.

## AT OUR CENTER OR AT YOUR SCHOOL

We welcome your class or group to our site in Frisco, or our educators can bring hands-on STEM programs to you! There are many opportunities and programs that will fit your curriculum and meet TEKS (Texas Essential Knowledge and Skills). This booklet outlines our current programs and information.

## MIND STRETCHING FUN®

Sci-Tech Discovery Center delivers MIND STRETCHING FUN through hands-on discovery experiences that spark a lifelong interest in STEM and help equip our area's children with critical skills. At Sci-Tech, we believe in advancing education and sparking the next generation of engineers, scientists, educators, and innovators.

## OUR MISSION

Sci-Tech Discovery Center provides dynamic educational experiences that inspire people of all ages and backgrounds to embrace discovery and innovation through the active exploration of science, technology, engineering and mathematics.



**Our dynamic educators bring our brand of hands-on STEM learning to your group with themed programs and shows for Field Trips or programs at your school**

# PLAN YOUR VISIT

## Location

8004 North Dallas Parkway  
in the Frisco Discovery Center  
(Cotton Gin Road/Main Street exit on North Dallas Tollway)

## Museum Operating Hours

Tuesday through Friday: 10AM to 4PM

Saturday: 10AM to 5PM

Sunday: 12 Noon to 5PM

*Closed to the public on Mondays. However, field trips and outreach programs can still be reserved.*

*Special events can be booked after hours.*

*Check our website for extended summer hours and holiday hours.*

## Admission

General admission (ages 3–64) \$10.00

Teachers, Military, Seniors (age 65+) \$8.50 (ID required)

2 and under FREE admission

Groups of 10 or more with reservation \$7.00

Additional Chaperones \$7.00

## Parking

Parking is free of charge. Buses should drop off at the door and park at the far end of the lot.



[www.MindStretchingFun.org](http://www.MindStretchingFun.org)

# GENERAL FIELD TRIP FAQs



Here are popular questions posed by educators just like you!  
Don't see the answer you're looking for?  
Contact our team directly at **(972) 546-3050 x107**.

## ***1. Is there a place to eat lunch on site?***

We encourage outdoor picnic style lunches at the field alongside our building or the nearby Frisco Commons Park (less than 10 minutes away). Accommodations for the park must be made by contacting the City of Frisco.

On a limited basis, classroom spaces can be rented contractually for an additional charge per student.

## ***2. Will the students have a chance to shop during the field trip?***

Yes! Students are able to purchase items directly from the on-site Explore Store with an adult present. Average prices are \$2-20.

## ***3. Will a field trip to Sci-Tech align with current science TEKS?***

Absolutely! All K-8 discovery supplements and exhibits are aligned to grade level science and technology TEKS.

## ***4. How do I book a field trip, WOW! show, or supplement?***

*Act now! Call our sales team at (972) 546-3050 x107 to make reservation.*

## ***5. How far in advance should I schedule our field trip?***

Reservations should be made at least two weeks prior to your visit. For spring field trips, 90 days or more may be needed to reserve your first-choice date.

## ***6. How long is a field trip and when can we arrive?***

The average field trip length is 90 minutes. **Supplemented field trips with WOW! Shows or Classroom Supplements** will run longer.

You will be given an arrival time. Groups may not enter the building before that time as we may have other groups checking in as well.

To book a **FIELD TRIP**, call **(972) 546-3050 x107**.

# FIELD TRIPS



## Field Trip Pricing:

Field Trip Admission: **\$7 per person** for children and adults.

Admission + 1 WOW! Show: **\$10 per student.**

Additional **\$5 per student** for classroom supplements.

One (1) Teacher is admitted for **FREE** per 10 children.

(Prices subject to change)

## FIELD TRIPS, WOW! SHOWS AND CLASSROOM SUPPLEMENTS

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All field trips to Sci-Tech include a short introduction and use of the exhibit halls and facilities. Your students can enjoy learning in our 7,000+ ft.<sup>2</sup> of interactive exhibit spaces.

Sci-Tech offers supplemental programs to enhance your visit. These include the WOW! shows and classroom supplements.

A **WOW! Show** is a large group assembly featuring our Sci-Tech Educators who handle materials that can explode, combust, and freeze! These shows are highly popular, and our stage area accommodates up to 75 people per show.

**Classroom Supplements** are for small to medium-sized groups (up to 24 students for each session), led by our Sci-Tech Educators and offer interactive and hands-on opportunities. Large groups can be divided into rotating classroom-sized groups.

All programs include interactive learning for students and are aligned to Science and Technology TEKS.

To book a **FIELD TRIP**, call **(972) 546-3050 x107.**

# CLASSROOM SUPPLEMENTS

**TIME: 30 - 45 minutes per session with time between for setup**

**PARTICIPANTS: Max 24 students per supplement session**

Programs are for small to medium-sized groups. Groups are between 10 and 24 students. Multiple classes can be scheduled for larger groups.

All supplements are led by our dynamic, experienced team of Sci-Tech educators. All programs include interactive learning for students and are aligned to state standards.

Our programs can be held in our Sci-Tech classrooms. Our programs are also mobile. Mileage and travel fees may apply.

## **MOBILE CLASSROOM SUPPLEMENTS:**

**\$200** for first program, **\$140** for each additional program

## **CLASSROOM SUPPLEMENTS AT SCI-TECH:**

**\$7** Admission + **\$5 per student**

To book a **CLASSROOM SUPPLEMENT**, call **(972) 546-3050 x107**.

# CLASSROOM SUPPLEMENTS



## REPTILE ROUNDUP

### K -6<sup>TH</sup> GRADE

Meet a few of Sci-Tech's resident reptiles. Learn about their physical and behavioral adaptations. Get up close and personal with a Ball Python, Leopard Gecko, Bearded Dragon, and Russian Tortoise.

## SLIME TIME

### 1<sup>ST</sup> - 5<sup>TH</sup> GRADE

Mix up your own lab grade slime and put it to the test. Decide if it is a solid, a liquid, a gas or something else entirely! You may be surprised. Children will be able to take home their new slime experiment.

## CSI, Jr.

### 1<sup>ST</sup> – 2<sup>ND</sup> GRADE

Your students – budding forensic scientists – are on the case to solve the mystery of which animal got into the garden! Using animals' behavioral traits, as well as physical and chemical clues, students will analyze the evidence to help our farmer.

## CSI

### 3<sup>RD</sup> - 4<sup>TH</sup> GRADE

Your students – budding forensic scientists – are on the case to solve the mystery of Sci-Tech's missing snake! Collaborating in teams, they must work together to explain clues, utilize forensic tools and analyze evidence in this real-world experience.

## IT'S A BUG'S LIFE

### 1<sup>ST</sup> - 4<sup>TH</sup> GRADE

Get one on one with some super mealworms as we run them through a few quick experiments to explore what we have in common. Learn how insects sense the world and learn how the scientific method helps us discover.

## FORCE & MOTION

### 2<sup>ND</sup> - 6<sup>TH</sup> GRADES

A high-energy interactive demonstration of Newton's Universal Law of Gravity and Three Laws of Motion. Learn about motion and trajectory, force, and kinetic energy principles while playing our life-size Angry Birds game.

## WHAT A WATERSHED

### 2<sup>ND</sup> - 5<sup>TH</sup> GRADES

Pollution and the water cycle come together as we "trash" our EnviroScape watershed model. See what happens next and decide how we can keep our planet clean for years to come.

## BRIDGES

### 3<sup>RD</sup> - 6<sup>TH</sup> GRADES

Investigate the forces of gravity, push and pull as you create K'Nex® bridges. Learn the architectural secrets behind some of the most famous bridges and put yours to the test.

***Requires access to sink.***

To book a **FIELD TRIP with CLASSROOM SUPPLEMENT**, call **(972) 546-3050 x107**.

# CLASSROOM SUPPLEMENTS



## Intro to Robot Adventures

**3<sup>rd</sup> – 5<sup>th</sup> GRADES**

Help our little robots journey across magical lands as you decide their programming. Students will use Cubetto®, the wooden robot that introduces kids to code and computer programming.

## Makey Makers

**4<sup>th</sup> – 6<sup>th</sup> GRADES**

Break out our Makey Makey® kits and learn to create complex circuits with unusual materials. Teams then build working video game controllers to test and play! Requires access to multiple electrical outlets for Sci - Tech laptops.

## ANATOMY ATTACK: COW EYEBALL

**4<sup>TH</sup> - 6<sup>TH</sup> GRADES**

Our eyes are our windows to the world. These organs take in reflected light and make sense of our environments via form, color and movement. Students will work in teams to dissect a cow eyeball, learn about its complex parts and compare/contrast its adaptations to those in a human.

***\*This supplement is \$8.50 per student.***

## Tiny Tinkerers – Pinball Wizards

**3<sup>rd</sup> – 6<sup>th</sup> GRADES**

Try your hand at engineering a pinball game in our tinkering class for beginners. Learn how forces and physics will help your team's ball bounce and spin.

## World of Ozobots ©

**4<sup>th</sup> – 6<sup>th</sup> GRADES**

Discover robotics and learn to program our mini-bots with visual color coding. Create a big world for them to explore and control how they move with the language of color.

## Advanced Robots – Mindstorm® or VEX ©

**4<sup>th</sup> – 8<sup>th</sup> GRADES**

Take a crack at more complex programming with either LEGO Mindstorm® or VEX® robotics, your choice! Teams will modify existing robot chassis and learn to program their movements to tackle our challenges. Requires access to multiple electrical outlets for laptops

To book a **FIELD TRIP with CLASSROOM SUPPLEMENT**, call **(972) 546-3050 x107**.

# CLASSROOM SUPPLEMENTS



## Computer Animation

### 6<sup>th</sup> – 8<sup>th</sup> GRADES

Learn how animation has jumped from paper to the screen. Students will work as animation partners to develop the environment and characters of their choosing. See how you can make them run, walk and express themselves in your mini movies. Requires access to multiple electrical outlets for laptops

## Optics Workshop

### 6<sup>th</sup> – 8<sup>th</sup> GRADES

Let us guide your students through the world of refraction, reflection and laser optics with our mobile lab. Explore concave versus convex lenses, internal reflection of laser beams, fiber optics, and more. Students work in teams as they navigate our station challenges, then enjoy demos that will light up your imagination.



To book a **FIELD TRIP with CLASSROOM SUPPLEMENT**, call **(972) 546-3050 x107**.

# WOW! SHOWS AT A GLANCE

WOW! Shows are assemblies for larger groups that can be held on your campus or included with a visit to Sci-Tech. Our WOW! shows explore physics, chemistry, liquid nitrogen and combustion in an exciting and engaging presentation.



**TIME: 30-45 minutes per session with time between for setup**

**PARTICIPANTS: UP TO 75 students per show at Sci-Tech**

**Up to 250 students for auditoriums at school sites.  
Call for more information about capacity at your site.**

## **AT YOUR SCHOOL:**

**\$325** for first show, **\$140** for each additional show

## **AT SCI-TECH:**

**\$7** Admission + **\$3** for **WOW! Show**

If multiple WOW! Shows are scheduled, set up fees will apply

To book a **WOW! SHOW**, call **(972) 546-3050 x107**.

# WOW! SHOWS

Choose one of our exciting WOW! demonstration stage shows for K-8<sup>th</sup> groups. Themes include:

## **WOW! Invisible Forces**

Explore the wonders of physics. Demonstrations include the forces of air pressure, gravity, centripetal force, potential and kinetic energy. Get blown away by Bernoulli's Principle!

## **WOW! Combustion**

Learn the basics of combustion as our trained staff wows you with our fire show. See how they set afire solids, liquids and gases. Discover what happens when you change the variables in our fire triangle. It's explosive! *Performance includes small controlled fires.*

## **WOW! Super Cooled**

Explore the world of the supercooled science with liquid nitrogen experiments. Discover how freezing temperatures affect solids, liquids and gases.

## **WOW! Matter Matters**

Spectacular fire and ice experiments that explore the states of matter, their properties and their reactions to extreme temperatures. Solids, liquids, and gases will expand and contract and ignite!



To book a **WOW! SHOW**, call **(972) 546-3050 x107**.

# STEM Night



## Tabletop Exploration Stations:

Our staff will set up hands-on exploration activity areas with 1 of the following themes. Space to spread out with 3 tables, chairs and access to electricity required. Pricing is per 1 station theme.

**\$250** per hour, minimum 2 hours

### Chemistry Stations:

Mix it up with chemistry kits and demonstrations that celebrate physical and chemical changes. Get hands-on and messy with color change, pH indicators, DIY dyes, and electroplating.

### Meet the Reptiles:

Get to know some of our resident reptiles up close and personal. They may include our Ball Python, Russian Tortoise, Leopard Gecko and/or Bearded Dragon. Best for smaller events to avoid placing stress on the animals.

### Robotics:

Our educators will bring out some of our favorite robots. Families will have the chance to control and program various robots that include LEGO, Cubetto, Ozobots, Dash, OWI robotic arms and/or VEX robotics. Exact robots may vary depending on availability. Good for all sized events.

### LASER Light Optics Stations

Let our light and optics tables brighten up your event. Our mobile lab guides families through the world of refraction, reflection and optics in our self guided stations. Explore concave versus convex lenses, internal reflection, fiber optics and more.

To book a **STEM NIGHT**, call **(972) 546-3050 x107**.

# STEM Night



## **WOW! Stage Shows:**

Our educators will delight your audiences with one of our exciting WOW! Shows. Great for large crowds in gymnasiums. Please see descriptions on WOW! Show page.

Pricing is per 30-45 minutes per show

**\$325** for 1<sup>st</sup> show

**\$140** for each additional show

***WOW! Invisible Forces***

***WOW! Super Cooled***

***WOW! Matter Matters***

***\*WOW! Combustion not available due to safety concerns.***

To book a **STEM NIGHT**, call **(972) 546-3050 x107**.