



# EDUCATOR PROGRAMS GUIDE

## 2017-2018

### OUR MISSION

The 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, math and technology.

### BRIGHT IDEAS!

That's what Sci-Tech Discovery Center hopes to inspire by providing hands-on experiences in the essential areas of science, math and technology to kids of all ages and backgrounds. Sci-Tech Discovery Center seeks to spark a life-long interest in STEM and helps equip our area's children with these advanced skills. At Sci-Tech, we believe in advancing education and providing inspiration to the next generation of engineers, scientists, educators and innovators.

### ABOUT SCI-TECH

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

### AT OUR CENTER OR YOUR SCHOOL

We welcome your class or group to our site or we can come to see you! There are many opportunities and programs that will fit your curriculum and meet TEKS (Texas Essential Knowledge and Skills). This booklet will outline our current programs and information.

### BASIC FACTS

Sci-Tech Discovery Center is located at 8004 North Dallas Parkway (at the Cotton Gin Road/Main Street exit on North Dallas Tollway) at the Frisco Discovery Center.

Our main telephone number is **(972) 546-3050**.

Our mailing address is Sci-Tech Discovery Center, 8004 North Dallas Parkway, Frisco, TX, 75034.

<b>General admission (ages 3–64)</b>	<b>\$8.50</b>
<b>Seniors (age 65+)</b>	<b>\$7.50</b>
<b>Military (ID required)</b>	<b>\$7.50</b>
<b>Teachers (ID required)</b>	<b>\$7.50</b>

Our general hours are Tuesday through Friday from 10AM to 4PM. Saturday hours are 10AM to 5PM, and Sunday from 12 Noon to 5PM. We are closed on Mondays. Special events can be booked after hours.



# EDUCATION AT SCI-TECH

Sci-Tech's immersive, hands-on exhibit gallery (7000+ sq. ft.) is filled with educational experiences that learners of all ages are sure to love!

## TRAVELING EXHIBITS

Check out our website to see what exciting travelling exhibits we have right now! Recent exhibits have included: It's a Nano World, LEGO Castle Adventure, Ocean Bound, Water's Extreme Journey, Zoom into Nano, Eyellusions and Amazing Butterflies.

## MAKERSPACE

See STEM ideas come to life in stations centered on light, sound, energy, art, engineering motion and more. Particularly in youth, the "Maker" approach to education fosters self-sufficiency, encourages innovative ways of thinking and develops the spirit of future problem-solvers.

## NANO EXHIBIT

This mini-exhibition engages guests with the basics of nanoscience, highlighting properties and reactions we can't see with the human eye. With engineering, social and technological examples, we make a big deal out of the world's smallest science!

## ASSORTED DISCOVERY MODULES

- Imagination Playground building blocks
- Thinker Linkers wooden engineering set
- Widget Wall mounted roller coaster style challenges
- Hurricane Simulator
- Bubble Exploration tables
- Lego creation table and racetracks
- Coordination Stations physics based golf ball challenges
- Bodies in Balance modules (homeostasis, body systems, and more)
- NEW! Vortex Cannon and Bernoulli Blower Challenge stations

## PUBLIC PROGRAMS AND EVENTS

Sci-Tech has opportunities for the public to enjoy special events. From lectures, panel discussions, specialized events such as a mini-maker faire, traveling exhibits openings and holiday-related happenings like our popular Countdown to Noon, Sci-Tech offers many outings for families, groups, educators and parents. Check our web site for upcoming events.

## FACILITY RENTAL AND PRIVATE EVENTS

Need a cool place to be together? Let Sci-Tech be that place!

### PERFECT FOR ANY EVENT:

- Family Science and Math Nights
- PTA fundraisers
- Group celebrations
- Graduation and Rising parties
- Private school functions

### PERFECT FOR ANY BUDGET:

- Starting as low as \$500
- Full access to our exhibit galleries, multi-purpose rooms and Discovery Stage
- Customizable programs with activity stations, live stations, live shows, team challenges and more!
- Call for information about our MakerSpace Team Building programs.

All facility rentals are custom-ordered to fit the group's needs.

Please contact our sales teams at **(972) 546-3050 x 106** for more information.

- Scouting events
- Corporate functions
- Team-building Programs
- Family reunions and celebrations
- And more!



# FIELD TRIPS & SUPPLEMENTS

The field trip admission cost is **\$7 per person** for children and adults.  
Admission and one supplement are **\$10 per person**  
*WOW Shows or Discovery Programs.*  
The cost is an additional **\$3 per person** for second supplement

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

## FIELD TRIPS, WOW SHOWS AND DISCOVERY PROGRAMS

All field trips to Sci-Tech include a short introduction, use of the exhibit halls and facilities. Your students can enjoy learning in our traveling and permanent exhibit spaces.

Sci-Tech offers supplemental programs to enhance your visit. These include the WOW shows and Discovery Programs. **The price is \$10 per person for one admission and supplement.** If you would like to add a second supplement, there is an additional fee of \$3 per person

A **WOW Show** is a large group assembly featuring our Sci-Tech Educators who handle materials that can explode, catch fire and freeze! These shows are highly popular and accommodate 25-150 people at our museum per show.

**You may book WOW shows for your venue or at Sci-Tech.**

If you would like to have multiple WOW shows at your school or venue to accommodate groups larger than 150, please contact us for prices and details.

A **Discovery Program** is a classroom-based experience. **They can be held in our Sci-Tech classrooms or at your school or site.** Discovery Programs are for small to medium-sized groups (up to 24 students for each session), lead by our Sci-Tech Educators and offer interactive and hands-on opportunities. Please call for information about the programs, booking and multiple sessions.

Check our pages on our current offerings. Email our sales team at [bookit@scitechdiscovery.org](mailto:bookit@scitechdiscovery.org) or call us to reserve your date and to arrange details, **(972) 546-3050 x 106.**



# GENERAL FIELD TRIP FAQs

Here's some 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 x106**.

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

Sci-Tech does not have an indoor eating area. However, we encourage outdoor picnic style lunches at the field alongside our building or the nearby Frisco Commons Park (less than 10 minutes sway).

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

Yes! Students are able to purchase items directly from our on-site Explore Store (average price \$2-20).

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

Absolutely! All K-6 discovery programs are aligned to grade level science TEKS. In addition, a trip to the museum allows students to experience many exhibits that correlate to various TEKS.

**4. How do I book a field trip, assembly, or discovery program?**

Act now! Call our sales team at **(972) 546-3050 x106** to make reservations.

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

Field trips may be booked Monday through Friday, pending availability. Groups may choose to arrive at either in the morning or afternoon. The average basic field trip is 90 minutes. Supplemented field trips with WOW Shows or Discovery Programs run longer.

Call today to learn more and to book your visit at **(972) 546-3050 x106**.



# SUPPLEMENTAL PROGRAMS

## DISCOVERY PROGRAMS AT A GLANCE

Discovery Programs can be held on your campus or included with a visit to Sci Tech. All programs include interactive learning for students and are aligned to state standards.

NEW!

NEW!

NEW!

NEW!

NEW!

NEW!

THEME	K	1ST	2ND	3RD	4TH	5TH	6TH
EYE ON THE SKY	•	•	•	•	•	•	•
REPTILE ROUNDUP	•	•	•	•	•	•	•
IT'S A BUG'S LIFE	•	•	•	•	•		
ROBOT ADVENTURE		•	•	•	•		
SCIENCE SLEUTHS		•	•	•	•		
SLIME TIME		•	•	•	•	•	
WHAT A WATERSHED			•	•	•	•	
FORCE & MOTION			•	•	•	•	•
BRIDGES				•	•	•	•
ANATOMY ATTACK! COW EYE					•	•	•

**TIME:** 30 minute sessions

**PARTICIPANTS:** Max 25 students per session

**COST:** \$180 for first program, \$120 for each additional program

- \*Fees may be added for travel or Anatomy Attack specimen
- Additional programs must be same theme and must occur on the same day
- Eye on the Sky Planetarium: 1st session **\$325**, additional sessions **\$120**.  
*Required: 12ft ceiling minimum, 16ft diameter space and access to electricity.*

To book a **DISCOVERY PROGRAM**, call **(972) 546-3050 x106**.



# DISCOVERY PROGRAMS

## GENERAL PROGRAMS

**ALL GENERAL PROGRAMS WILL BE MODIFIED TO BE GRADE APPROPRIATE IN PRESENTATION**

### EYE ON THE SKY

#### KINDERGARTEN THROUGH 6<sup>TH</sup> GRADE

Explore the night's sky in the middle of the day! Step inside our portable, inflatable planetarium. View the constellations, colorful stars, planets and moon. This custom-tailored astronomy experience can focus on one of several areas including:

- Constellations, Myths & Legends
- Phases of the Moon
- The Solar System



**Required: 12ft ceiling minimum, 16ft diameter space and access to electricity.**

### REPTILE ROUNDUP

#### KINDERGARTEN THROUGH 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. Please visit our web page for more information about the animals.

**NEW!**

### 1<sup>ST</sup> GRADE AND ABOVE PROGRAMS

#### IT'S A BUG'S LIFE

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

Get one on one with some super meal worms as we run them through a few quick experiments to explore what we have in common. Learn how they view the world and discovery how metamorphosis takes them through life.

**NEW!**

#### ROBOT ADVENTURE

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

Help our little bots journey across magical lands as you decide their programming. Students will use Cubetto® the wooden robot toy that helps kids learn code and computer programming.

**NEW!**

#### SCIENCE SLEUTHS

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

Your students – each a budding forensic scientist – is 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.

#### SLIME TIME

##### 1<sup>ST</sup> THROUGH 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.

**NEW!**



# DISCOVERY PROGRAMS

## 2<sup>ND</sup> GRADE AND ABOVE PROGRAM

NEW!

### WHAT A WATERSHED 2<sup>ND</sup> THROUGH 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. *Requires access to sink.*

### FORCE & MOTION

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

The force and motion supplement is a high-energy interactive demonstration of Newton’s Universal Law of Gravity and Three Laws of Motion. The kids will learn about motion and trajectory, force, and kinetic energy principles while playing our life-size Angry Birds game.

## 3<sup>RD</sup> GRADE AND ABOVE PROGRAM

NEW!

### BRIDGES 3<sup>RD</sup> THROUGH 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.

## 4<sup>TH</sup> GRADE AND ABOVE PROGRAM

### ANATOMY ATTACK: COW EYEBALL

#### 4<sup>TH</sup> THROUGH 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.

*Specimen cost per station is \$7.*

**TIME:** 30 minute sessions

**PARTICIPANTS:** Max 25 students per session

**COST:** \$160 for first program, \$120 for each additional program

- Fees may be added for travel or Anatomy Attack specimen
- Additional programs must be same theme and must occur on the same day
- Starlab Planetarium: 1st session **\$325**, additional sessions **\$120**.  
Required: 12ft ceiling minimum, 16ft diameter space and access to electricity.

To book a **DISCOVERY PROGRAM**, call **(972) 546-3050 x106**.



# SUPPLEMENTAL PROGRAMS

## 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. All programs are aligned to state standards.

THEME	K	1ST	2ND	3RD	4TH	5TH	6TH
THE ORIGINAL WOW SHOW	•	•	•	•	•	•	•
WOW COMBUSTION	•	•	•	•	•	•	•
WOW SUPER COOLED			•	•	•	•	•
WOW ELECTRICITY			•	•	•	•	•
WOW CHEMISTRY			•	•	•	•	•

**TIME:** 45 minute sessions

**PARTICIPANTS:** 25-150 students per session at Sci-Tech

Up to 300 students for auditoriums

Call for information about size capacity at your site

**COST:** \$325 for first program

\*Fees may be added for travel.

- Additional programs must be same theme and must occur on the same day

To book a **WOW SHOW**, email [bookit@scitechdiscovery.org](mailto:bookit@scitechdiscovery.org) or call (972) 546-3050 x106.

## WOW SHOWS!

**WHETHER AT YOUR SITE OR ON YOUR FIELD TRIP AT SCI-TECH, THESE ASSEMBLIES WILL THRILL YOU!**

Our WOW shows explore physics, electricity, chemistry, liquid nitrogen and combustion in an exciting and engaging presentation. We can accommodate large groups (up to 150 people per show) in our venue or will work with you to meet your site's accommodations.

General WOW Show information:

**NUMBER OF PARTICIPANTS:**

Up to a full assembly

**MATERIALS YOU PROVIDE:**

Two (2) tables, trashcan, access to electricity and access to water.

Call for details (072) 546-3050 x106.





# WOW SHOWS

Choose one of our exciting WOW demonstration stage shows. Themes include:

## **The Original WOW Show**

Explore the wonders of science with a mix of chemical concoctions, extreme temperature experiments, amazing physics demonstrations and more. Get blown away by Bernoulli's Principle of air pressure and more.

## **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 super cooled science with liquid nitrogen and dry ice experiments. Discover how freezing temperatures effect balloons, balls, fruit and flowers. Watch a banana hammer a nail, see 'crystal ball' bubbles, and catch a fog filled bubble in your hands.

## **WOW Electricity**

The sparks will fly with our electrostatic Van de Graaff generator. They will learn about lightning as they watch the sparks fly and some lucky volunteer will get a "hair raising" experience.

## **WOW Chemistry**

See our trained staff mix it up with chemistry. Watch color changes, bubbling eruptions, combustion, illumination and more as we explore chemical reactions. *Performance includes small controlled fires.*

**TIME:** 45 minute session

**NUMBER OF PARTICIPANTS:** Up to a full assembly

**MATERIALS YOU PROVIDE:** Two (2) tables, trashcan, access to electricity and access to water.

**COST:** \$325 for the first assembly, \$120 for subsequent assemblies

Multiple WOW Show assemblies must be the same show on the same day to receive the reduced second show price of \$120 for each additional show.



# CAMPS

Science doesn't stop when school is out! Join Sci-Tech for summer and school year camps throughout the year. Camps vary in theme. Please check our web site for dates, themes, times and information at <https://mindstretchingfun.org/sci-tech-camp/>.

## SCI-TECH SUMMER CAMP

Sci-Tech offers a full summer of camps for students in first through sixth grade. All camps explore each week's theme through interactive activities and experiments. *note: there is no before or after camp care.*

### TIMES:

Early June through mid-August  
Monday through Friday, 9AM-4PM

### CAMPER GRADES:

Camps are developed to be grade appropriate.  
**1<sup>ST</sup> THROUGH 2<sup>ND</sup> GRADE**  
**3<sup>RD</sup> THROUGH 4<sup>TH</sup> GRADE**  
**5<sup>TH</sup> THROUGH 6<sup>TH</sup> GRADE**

### COST:

Sci-Tech members: **\$250/week**  
Non-members: **\$300/week**  
*\*No camp on July 3<sup>rd</sup> and 4<sup>th</sup>. Special rate applies.*

**Please visit our web site for camp themes, dates, forms, information and to register: <https://mindstretchingfun.org/sci-tech-camp/>**

## MAKERSPACE SUMMER CAMP

Join us at our Maker Space for a different camp project each week. Each project includes learning about design, handling workshop tools and methods tailored to that challenge. Camp is for students entering 5<sup>th</sup> through 8<sup>th</sup> grade, takes place in Sci-Tech's Maker Space, and is lead by qualified teachers. Build trebuchets and defend your castle, make a bowling ball roller coaster, or race your own go-kart. Each week will conclude in an exciting event. *Please note: there is no before or after camp care available.*

Camps run through the weeks of July 10<sup>th</sup> through August 14<sup>th</sup>, 2017.

### TIME:

Monday through Friday, 9AM-4PM

### CAMPER GRADES:

Camps are developed to be grade appropriate.  
**5<sup>TH</sup> THROUGH 8<sup>TH</sup> GRADE**

### COST:

All campers: **\$300/week**

**Please visit our web site for camp themes, dates, forms, information and to register: <https://mindstretchingfun.org/summer-camp-page-5/>**

## SCI-TECH SCHOOL BREAK CAMPS

Check our web site throughout the year for our upcoming dates, prices and themes.

## MAKERSPACE SCHOOL BREAK CAMPS

Check our web site throughout the year for our upcoming dates, prices and themes.



# MAKER PROGRAMS

- 45 min classes with 15 min in between for turnover
- 25 max kids
- All classes require tables and chairs for children (other outreach requirements noted below)
- Additional programs must be the same class if booked for the same day.
- Multiple outreach programs require set up in one room, with classes rotating in.

## Pricing Starting at:

On-Site Field Trip Supplement = additional \$ 5.00 per child  
 Outreach Class = \$ 325.00 per 45 min class of 25 kids

### 1. Tiny Tinkerers – Pinball Wizards (3<sup>rd</sup>-5<sup>th</sup> Grade)

*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.*

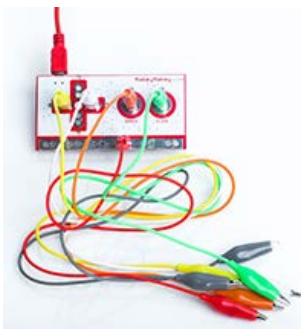
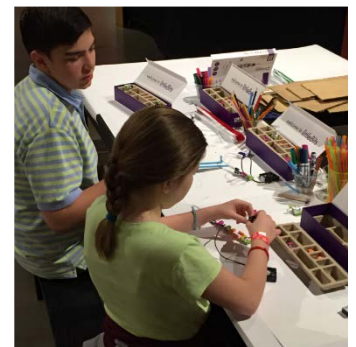


### 2. Little Electricity Lab (3<sup>rd</sup> – 5<sup>th</sup> Grade)

*Introduce your students to circuits, switches, lights and buzzers in our beginner's electrical engineering lab. Kids work together to create rolling racers, spin art and bubble blowers!*

### 3. Intro to Robot Adventures (3<sup>rd</sup> – 5<sup>th</sup> Grade)

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



### 4. Makey Makeys (4<sup>th</sup>-6<sup>th</sup> Grade)

*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.*

### 5. World of Ozobots© (4<sup>th</sup>-6<sup>th</sup> Grade)

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.

### 6. Stop Motion Animation (4<sup>th</sup>-6<sup>th</sup> Grade)

Students work in teams to create their own characters and a world for them to move through. Get a taste of the animation world with a class in stop motion. Requires access to multiple electrical outlets for Sci-Tech laptops.

### 7. Arduino Challenge (6<sup>th</sup>-8<sup>th</sup> Grade)

Learn the fundamentals of Arduino hardware as teams build burglar alarms. They will work in teams to connect LED and motor drivers to sensors as they become Arduino engineers. Requires access to multiple electrical outlets for laptops.

### 8. Advanced Robots – Mindstorm© or VEX© (6<sup>th</sup>-8<sup>th</sup> Grade)

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.

### 9. 3D Computer Animation (6<sup>th</sup>-8<sup>th</sup> Grade)

Prepare to animate in our digital world with 3D computer animation. Students will work in teams of 2 or 3 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.





# ADDITIONAL PROGRAMS

Sci-Tech Discovery Center offers programs for Pre-K and others throughout the year. Check our web site

## SUMMER STORY TIME SERIES

Sign up for one of our exclusive PK Summer Story Time Series at Sci Tech. Meet once a week for 4 classes and explore art and science. Activities, stories and sensory play are designed for parents to share with their little ones, led by our always energetic staff. ***This is a registered program-NO DROP-INS.***

June is ART month  
July is ANIMAL month  
August is SPACE month

### **TIMES:**

11:00AM – 12:00PM

### **COST:**

\$60 for the entire 4 class session, four consecutive Fridays

Please visit <https://mindstretchingfun.org/pre-school-story-time/> to register.

## SPECIAL EVENTS

### **SCIENCE WITH A PRINCESS**

Each visit with a princess will give you an opportunity to experiment! Throughout the year, join princesses, pirates, astronauts and others to make science fun. Programs are geared toward children Pre-K through 2nd grade.

Keep an eye on [mindstretchingfun.org](https://mindstretchingfun.org) for upcoming Science with a Princess visits, prices, dates and times and to register.

### **COUNTDOWN TO NOON**

Having trouble staying up until the countdown at midnight too? Why don't you join us as we celebrate our Countdown to Noon! Every year, Sci Tech fills with family fun activities, explosive science demonstrations, iCream of Frisco's liquid nitrogen ice cream, our big 12:00 balloon drop, face painters, balloon twisters and so much more!

Check [mindstretchingfun.org](https://mindstretchingfun.org) in December for more details.



# SCOUTING PROGRAMS

Sci-Tech Discovery Center would love to have your Girl Scout troop visit our museum and earn a badge or patch at the same time. Scouting sessions can be hosted after school or on weekends, pending availability. Admission to the museum is included with the scout participation fee. **Physical badges NOT included.**

## **GIRL SCOUTS**

**Daisy Scout CLOVER Petal**

**Daisy Scout ROSIE Petal**

**Brownie Scout SENSES Badge**

**Brownie Scout HOME SCIENTISTS Badge**

**Brownie Scout INVENTOR Badge**

**Junior Scout DETECTIVE Badge**

**Junior Scout ANIMAL HABITATS Badge**

**Junior Scout FLOWERS Badge**

**All workshops are 1 hour**

**Minimum: 10 participants**

**Cost: \$20 per participant**

*Each workshop requires a \$50 deposit applied to the total balance due.*

For more information and available dates or to book, please email [bookit@scitechdiscovery.org](mailto:bookit@scitechdiscovery.org) or call **(972) 546-3050 x106**.