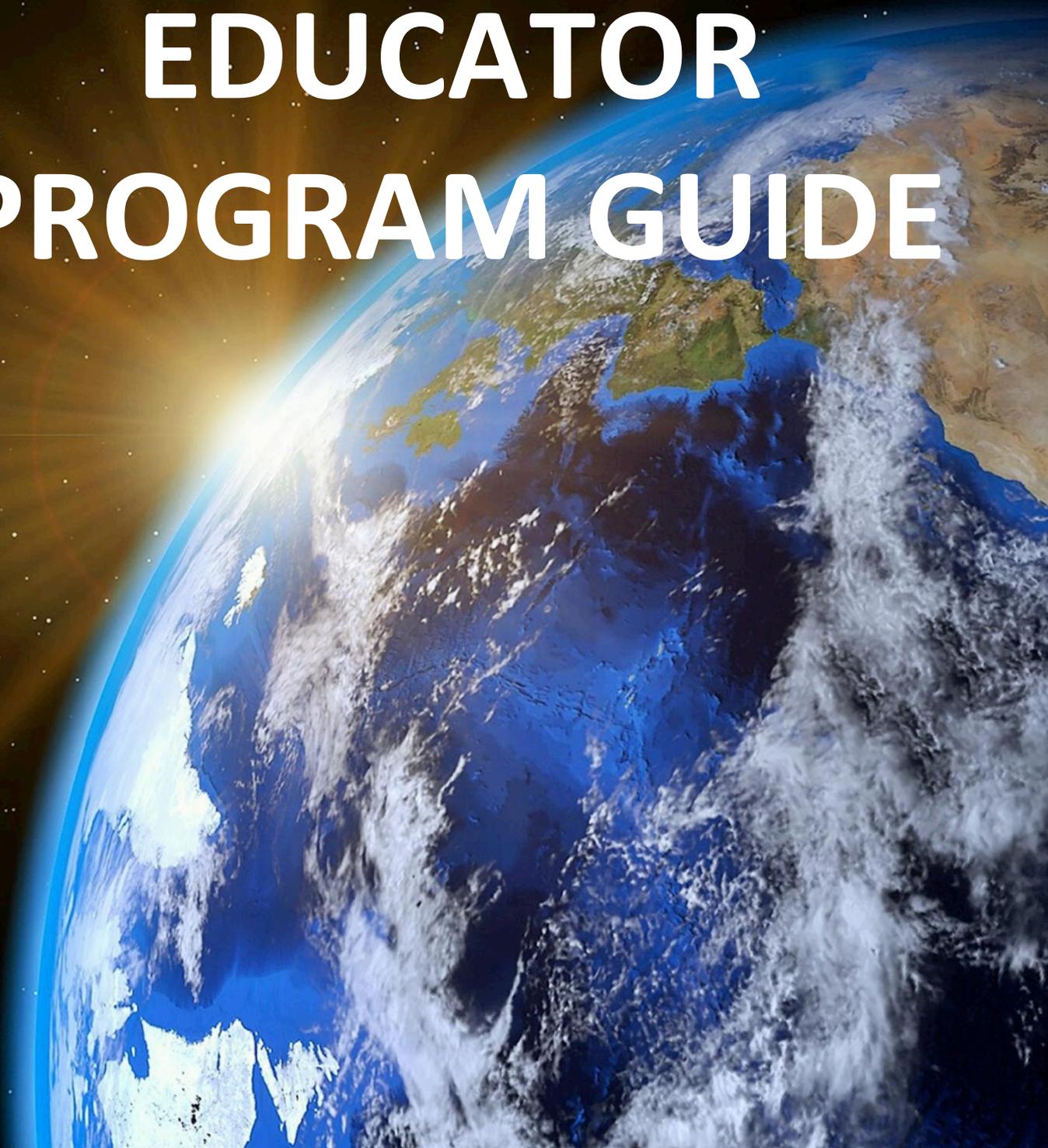


2019-2020

Sci-Tech Discovery Center

EDUCATOR
PROGRAM GUIDE



Sci-Tech Discovery Center EDUCATOR PROGRAM GUIDE



MIND STRETCHING FUN®

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



FIELD TRIPS AT SCI-TECH

- Supplemental classroom programs
- WOW Shows at the stage

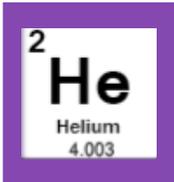


PROGRAMS AT YOUR SCHOOL

- Exciting Classroom STEM and Maker programs
- Wow Shows in the gym

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3 Li Lithium 6.941	4 Be Beryllium 9.012																	5 Al Aluminum 26.982	6 Si Silicon 28.086	7 P Phosphorus 30.974	8 S Sulfur 32.066	9 Cl Chlorine 35.453	10 Ar Argon 39.948
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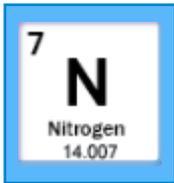
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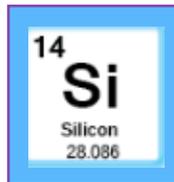
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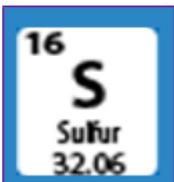
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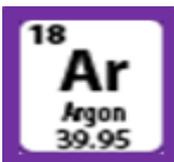
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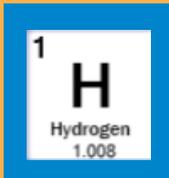
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ABOUT SCI-TECH

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 YOUR SCHOOL

We welcome your class or group to our site in Frisco, or our educators can bring hands-on STEM and Maker learning 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[®]

That's what Sci-Tech Discovery Center delivers 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 providing inspiration to 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.





AN EDUCATIONAL RESOURCE FOR THE COMMUNITY

Our education team can help your group achieve STEM learning goals:

HOMESCHOOL PROGRAMS

PRE-K PROGRAMS

Check our website for current offerings

PLAN A SPECIAL EVENT

We also offer after-hours facility rental for family or business events.

PARTIES TO REMEMBER:

Family STEM Nights

PTA fundraisers

Group celebrations

Graduation parties

Private school functions

Business mixers

EVENTS INCLUDE:

- 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!
- 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 107** for more information.



FIELD TRIPS



Field Trip Pricing:

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

Admission + 1 Classroom Program: **\$10 per student.**

Additional **\$3 per student** for additional programs.

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

(Prices subject to change)

FIELD TRIPS, WOW SHOWS AND CLASSROOM PROGRAMS

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 interactive exhibit spaces.

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

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 our stage area accommodates 25-150 people per show.

Classroom Programs 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 state TEKS standards.

Check our pages on our current offerings. Email our sales team at bookit@scitechdiscovery.org or call us to reserve your date and to arrange details, (972) 546-3050 x 107.

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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?

Sci-Tech does not have an indoor eating area. 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.

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-8 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.

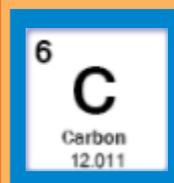
4. How do I book a field trip, assembly, or discovery program?

Act now! Call our sales team at (972) 546-3050 x107 to make reservations at least 2 weeks in advance.

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 Classroom Programs will run longer. Larger groups with consecutive programs may also run longer.

Call today to learn more and to book your visit at
(972) 546-3050 x107.



CLASSROOM SCIENCE and TECH PROGRAMS AT A GLANCE

Our programs can be held in our Sci-Tech classrooms or at your school or site.

Programs are for small to medium-sized groups (up to 24 students for each session), led by our dynamic team of Sci-Tech educators.

All programs include interactive learning for students and are aligned to state standards. Classroom *SCIENCE* Programs cover a wide range of STEM TEKS including Force, Matter, Energy, Organisms, Earth and more. Classroom *TECH* Programs focus on engineering and technology topics.

Please call for information about the programs, booking and multiple sessions.

TIME: 30-40 minute sessions with time between for setup
PARTICIPANTS: Max 24 students per session

AT YOUR SCHOOL:

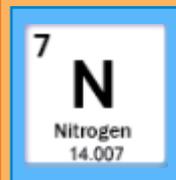
\$200 for first program, **\$140** for each additional program

AT SCI-TECH:

Admission plus 1 Classroom Program or WOW Show are **\$10 per child**.

The cost is an additional **\$3 per person** for second program.

To book a **DISCOVERY PROGRAM**, call **(972) 546-3050 x107**.



CLASSROOM SCIENCE PROGRAMS

TIME: 30-40 minute sessions with time between for setup
PARTICIPANTS: Max 25 students per session

AT YOUR SCHOOL:

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

AT SCI-TECH:

Admission plus 1 program is **\$10 per child**.

The cost is an additional **\$3 per person** for a second program.

IT'S A BUG'S LIFE

1st - 4th 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.

SLIME TIME

1st - 5th 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

1st - 4th 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.

REPTILE ROUNDUP

K -6TH 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.



CLASSROOM SCIENCE PROGRAMS cont.



FORCE & MOTION

2ND - 6TH 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.

ANATOMY ATTACK: COW EYEBALL

4TH - 6TH 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 student pair is \$7.

BRIDGES

3RD - 6TH 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.

WHAT A WATERSHED

2ND - 5TH 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.



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

CLASSROOM *TECH* PROGRAMS



TIME: 45 minute sessions with time between for setup
PARTICIPANTS: Max 24 students per session

AT YOUR SCHOOL:

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

AT SCI-TECH:

Admission plus 1 program is **\$12 per child**.

The cost is an additional **\$5 per person** for a second program.

3rd-5th Grade

Intro to Robot Adventures

(3rd – 5th 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.

Tiny Tinkerers - Pinball Wizard

(3rd -5th 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.



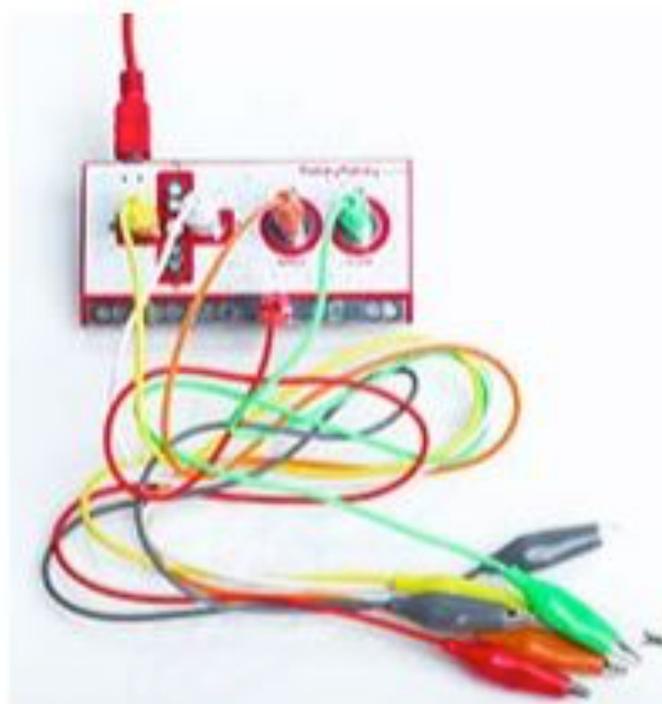
CLASSROOM *TECH* PROGRAMS cont.

4th-6th Grade

Makey Makers

(4th -6th Grade) ⚙️

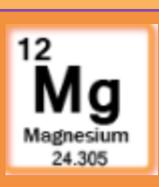
Break out our Makey Makey© kits and learn to create complex circuits with unusual materials. Teams then build working video game controllers to test and play! Requires access to multiple electrical outlets for Sci -Tech laptops.



World of Ozobots © ⚙️

(4th -6th Grade)

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



CLASSROOM TECH PROGRAMS cont.

6th-8th Grade

Advanced Robots – Mindstorm © or VEX ©

(6th -8th 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

3D Computer Animation

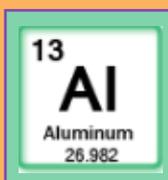
(6th -8th Grade)

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

(6th -8th Grade)

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, fibre optics and more. Students work in teams as they navigate our station challenges, then enjoy demos that will light up your imagination.



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, 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.

TIME: 30-45 minute sessions with time between for setup
PARTICIPANTS: 25-150 students per session at Sci Tech
Up to 250 students for auditoriums at school sites.
Call for more information about size capacity at your site.

AT YOUR SCHOOL:

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

AT SCI-TECH:

Admission plus 1 WOW show is **\$10 per child.**

The cost is an additional **\$3 per person** for a second show.



WOW SHOWS

Choose one of our exciting WOW demonstration stage shows for K-8th groups. Themes include:

WOW Invisible Forces

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 supercooled science with liquid nitrogen and dry ice experiments. Discover how freezing temperatures affect balloons, balls, fruit and flowers.

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!





Family STEM Night

Table Top 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.

Meet the Reptiles:

Our educators will bring out some of our resident reptiles for visitors to meet 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.

\$800 for 2 hours

Additional \$250 for each additional hour

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.

\$900 for 2 hours

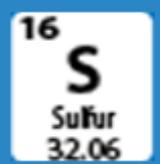
Additional \$300 for each additional hour

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.

\$1000 for 2 hours

Additional \$350 for each additional hour





Family STEM Night cont.

WOW Stage Shows:

Our educators will delight your audiences with one of our exciting WOW Shows. They demonstrate super cooled, electrifying and fiery science experiments for all to see. Great for large crowds in gymnasiums.

Pricing is per 1 show.

\$325 per show

\$125 for each additional show

WOW Super-cooled Liquid Nitrogen Show:

Explore the world of the supercooled science with liquid nitrogen and dry ice experiments. Discover how freezing temperatures affect 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 Invisible Forces Show:

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

SCOUTING WORKSHOPS



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. Workshops can be hosted after school, pending availability. Admission to the museum is included with the scout participation fee.

GIRL SCOUTS

Daisy

Model Car Design Challenge
Roller Coaster Design Challenge
Fling Flyer Design Challenge
Think Like an Engineer
Think Like a Programmer

Brownie

Home Scientist
Race Car Design Challenge
Think Like an Engineer
Think Like a Programmer

Junior

Detective
Think Like an Engineer
Think Like a Programmer

Cadette

Woodworker (*3 h)

Daisy, Brownie, Junior 2-hr Workshops

Thursdays or Fridays 4:00 – 6:00 PM
\$ 160 total for up to 8 scouts
\$ 320 total for 9-16 scouts (max 16)

Cadette 3-hr Workshops

Thursdays or Fridays 4:00-7:00 PM
\$ 215 total for up to 8 scouts
\$ 430 total for 9-16 scouts (max 16)

Please call to register at least 2 weeks in advance.

For more information and available dates or to book, please email bookit@scitechdiscovery.org
or call (972) 546-3050 x107.

CAMPS



Science doesn't stop when school is out! Join Sci-Tech for themed summer and school-year camps.

STEM CAMPS

Our STEM Camps introduce kids to science and technology in the world around them. They can explore physics and engineering, Earth and space, robots, drones, and chemical reactions. It's all fun and games until it gets messy...then it's awesome!

MAKER CAMPS

Our Maker Camps are ideal for older kids who love to tinker, disassemble, invent and create. Campers can use hand tools for big wooden builds.

Campers get their own WOW stage shows before the museum opens to the public and have time to explore the exhibits between hands-on projects in their classrooms.

Children remain with Sci-Tech educators in their grade groups throughout the day. Sci-Tech camp staff are Red Cross Certified in First Aid/CPR/AED and have years of education experience.

9:00a.m. – 4:00 p.m. with early and late hours available

1st – 8th Graders

Discounts for members

Please check our website for dates, themes, cost and information at <https://mindstretchingfun.org>

