Designed to Meet New Georgia Standards of Excellence

Over 100,000 Students Participate Annually

90-minute In-school Science Experience

Totally Hands-on and Participatory

All Materials Provided

Degreed Professional Instructors

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Committed to Increasing Scientific and Technological Literacy™
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770-667-9443

2018-2019 School Year

The Nation's leading science experience that comes to you!

Programs align with GSE

Physical Science
• Balancing Act
• Edison’s Workshop
• Fabulous Forces
• Finally Fun Machines
• Force, of Course!
• Matter Matters
• Magnet Makers
• Me and My Shadow
• Power of Light
• Sounds Like Fun
• The Heat is On
• Vibes
• Whatever Floats Your Boat
• What’s the Matter

Life Science
• CELL-ebrate
• Circle of Life
• Chain Gang
• Georgia-ology
• Get Buggy
• No Bones About It
• Let’s Make Sense
• Our Living Planet
• Smarty Plants

Beyond the Standards
• Brain Buzz
• Chem Fun
• Dissection Connection
• Forensic Fun
• The Real McCoy
• We Do WeDo™ LEGO® Robotics

Black History Month
• The Real McCoy

Earth / Space Science
• Cosmic Capers
• Dig It!
• Fossil Fun
• Geologica
• Georgia-ology
• Me and My Planet
• Meteorology Madness
• Rock and Roll
• Space, the Final Frontier
• Weather or Not

Serving Atlanta Since 1994

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<table>
<thead>
<tr>
<th>Topic</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>Let's Make Sense (K)</td>
<td>A great introduction to scientific inquiry as young scientists use all their senses to make observations. Tuning forks, &quot;smelling bees&quot; and taste tests are just the beginning! Seeing isn't always believing as you reach into our TOUCH BAGS for a little sight-free sorting! SKP1</td>
</tr>
<tr>
<td>Me and My Planet (K)</td>
<td>Use sundials to simulate the world turning. Experience the heat and light energy of the Sun when you make your own solar powered bracelet to take home! Measure shadows as they change through the day and safely view the Sun itself! (Program subject to alterations due to weather.) SKE1</td>
</tr>
<tr>
<td>Rock and Roll (K)</td>
<td>Kindergartners observe, sort and classify rocks as they learn real geology terms! Get the EARTHY facts about different soil types: sand, clay, and loam. Kindergartners will know that SCIENCE ROCKS as they pan for their own minerals and crystals to start their own collection! SKE2</td>
</tr>
<tr>
<td>Fabulous Forces (K)</td>
<td>How do objects move? Why do they stop moving? In what directions do they move: zigzag, round and round, straight? Learn the science behind some of your favorite toys and see for yourself! By rolling, pushing, pulling and dropping, your students will explore motion and gravity in action. Marbles, balls, cars, tops, tracks and push/pull toys allow the physics playground to come to life in your classroom. (Program is arranged in 5 centers.) SKP2</td>
</tr>
<tr>
<td>Our Living Planet (K)</td>
<td>The budding ecologist will investigate the characteristics of what lives on our Earth. We will explore characteristics of both plants and animals and how they grow. Do moms and babies always look similar? Do all animals move the same? We will explore these questions and more. (Program is arranged in 5 centers.) SKL1, SKL2</td>
</tr>
<tr>
<td>Whatever Floats Your Boat (K)</td>
<td>Practice being a real scientist as we classify, make predictions, and test what will sink or float at our buoyancy center. Play a matching game to compare different textures. Sort objects by their physical attributes such as size, shape, color, and weight, and use scales to balance them. &quot;Stretch&quot; your mind as you make science putty to mold and keep. Use your imagination to change it from one thing into another like clay! (Program is arranged in 4 centers.) SKP1</td>
</tr>
<tr>
<td>Get Buggy (K-2)</td>
<td>Creepy, crawly, weird and wacky. Discover the incredible life of insects and arachnids. From egg to adult, journey through the life cycle of butterflies, bees and beetles. Get excited as we touch real bugs! Our live critters will amaze you! (Program is arranged in 4 centers.) SKL1, SKL2, S1L1, S2L1</td>
</tr>
<tr>
<td>Smarty Plants (1)</td>
<td>Get all the SEEDY facts on the parts of a plant when you touch, smell and compare leaves and seeds by size, shape and structure. Watch as we turn a carnation a different color. Get to the &quot;root&quot; of the mystery as to how plants drink and make food. Make and take home a terrarium. (Program is arranged in 4 centers.) S1L1</td>
</tr>
<tr>
<td>Sounds Like Fun (1)</td>
<td>TUNE IN as we make waves and discover vibration and sound. Observe how different sized instruments make sounds of different pitch. Identify sources of sound, use a model eardrum, make salt dance and water fly! Experience the fun science of sound! S1P1</td>
</tr>
<tr>
<td>Me and My Shadow (1)</td>
<td>Discover differences between natural and artificial light sources. Identify sources of ultraviolet light using UV beads, and make your own UV bead bracelet to take home! What makes a shadow? Why do shadows change size? Can we make colored shadows? Answer these questions and more while exploring with shadow puppets. S1P1</td>
</tr>
<tr>
<td>Magnet Makers (1)</td>
<td>Get ATTRACTED to the magnificent world of magnets. Discover magnetism as we use repulsion to push magnetic cars and make rings float. Transfer magnetism through water, wood and other media. May the &quot;FORCE FIELD be with you&quot; as we use electromagnets and learn about ways to make a magnet. (Program is arranged in 5 centers.) S1P2</td>
</tr>
<tr>
<td>Weather or Not (1)</td>
<td>Travel through the water cycle as we touch a real cloud and discover the 4 forms of precipitation. Get an introduction to weather instruments: thermometers, rain gauges, weather vanes and anemometers. Discover the importance of air pressure with tornado tubes and barometers. (Program is arranged in 5 centers.) S1E1</td>
</tr>
<tr>
<td>Matter Matters (2)</td>
<td>Discover what &quot;matters&quot; in the physical properties of matter. Measure the mass of different objects using balance scales. Feel the physical properties of unknown objects and build different structures by rearranging the same components again and again. (Program is arranged in 5 centers) S2P1</td>
</tr>
<tr>
<td>Space, The Final Frontier (2)</td>
<td>Move through space as we explore the size, motion and brightness of stars. Discover why the Moon changes in appearance and why it is sometimes visible in the daytime. Explore the day and night sky. Track the movement of the Sun throughout the day while exploring with your own sundial that you make and take home. (Program is arranged in 4 centers.) S2E1, S2E2</td>
</tr>
<tr>
<td>Circle of Life (2)</td>
<td>Explore the life cycles of both plants and animals while learning biology basics. Plant the seeds of knowledge as we make our own terrariums to take home. From beginning to end and to beginning again, see what it takes for living things to survive and thrive. (Program is arranged in 5 centers) S2L1 For an alternate program option see GET BUGGY [K-2] S2L1</td>
</tr>
<tr>
<td>Force, Of Course! (2)</td>
<td>What is a force? A push or a pull, of course! You’ll make a commotion of motion in your classroom as you push, pull, roll, slide and spin objects to discover the path of motion. Plus, design an experiment to collect data on how friction and gravity affect speed. (Program is arranged in 4 centers.) S2P2</td>
</tr>
<tr>
<td>Georgia-ology (3)</td>
<td>An all out study of Georgia’s geology, biology, botany and paleontology. From mountains to marshes, learn to identify native plants and animals found within Georgia’s habitats and how they have adapted to thrive in each region. Take home Georgia’s state fossil: the shark’s tooth. (Program is arranged in 4 centers.) S3L1, S3L2</td>
</tr>
<tr>
<td>Fossil Fun (3)</td>
<td>Travel back to the prehistoric past and uncover the scientific secrets of how life once survived on Earth. Learn first-hand how fossils are formed. Dig up the past using authentic fossils and models. Mold-making, rubbing and imprinting are exciting ways to uncover facts about plants and animals that have become extinct. Excavate and take home your own fossil collection! (Program is arranged in 4 centers.) S3P1</td>
</tr>
<tr>
<td>The Heat is On (3)</td>
<td>Energy is the HOT topic in this program! Observe and measure the rate at which a solid and a liquid absorb heat. Test heat transfer with insulators &amp; conductors. &quot;Conduct&quot; experiments with radiometers and thermometers (both liquid and digital) and take home a heat-sensitive bookmark! S3E2</td>
</tr>
<tr>
<td>Dig It! (3)</td>
<td>An experience that totally ROCKS! Pan for real gemstone minerals, and keep them, too! Investigate the properties that make rocks and minerals unique through a series of classification tests. Become a real geologist by using a dichotomous key for common rocks found in Georgia. Sort minerals using the Mohs Hardness Scale. S3E1</td>
</tr>
</tbody>
</table>
Finally Fun Machines (4)
Finally, a hands-on and FUN program on machines. Meet the Facilitator, our cool, multi-personality compound machine. Engage in pulley power, lifting levers, and incline plane plunges as we build one big machine with all six simple ones. Become "energized" as we "work" through potential and kinetic energy. (Students work in groups of 3.) S4P3

Balancing Act (4)
Balanced or unbalanced, that is the question. See what happens when forces in nature are out of balance. Set into motion experiments guaranteed to show the difference. From balance scales to gyrosopes, and even becoming a human launch pad for water rockets, explore how forces affect motion. (Program is arranged in 4 centers. Program subject to alteration due to weather.) S4P3

Vibes (4)
Catch a sound wave as we learn how the strength and speed of vibrations change sound. Test how sounds travel through different materials in your classroom. Study how your ears work and how to keep them safe while measuring classroom sounds with our decibel meters. Examine why emergency signals sound different. S4P2

Power of Light (4)
Come in from the dark! "Reflect" on the world of visible light. Meet "ROY G. BIV" using prisms and discover the electromagnetic spectrum. Experiment with refraction using concave and convex lenses. Sit back and enjoy a laser light show. S4P1

Chain Gang (4)
Connect the web... the food web, that is! Follow the flow of energy through producers, consumers, and finally decomposers. Examine how changes to the environment affect the flow of energy through an ecosystem. Become a wildlife ecologist and dissect owl pellets to discover the feeding habits of a barn owl. Ooh & Aah as you study skulls of different consumers. S4L1

Cosmic Capers (4)
Voyage outside our universe to discover the planets, stars, nebulae and black holes that define our universe. Become a planet as we mimic the motion and position of the Earth and Moon. Use reflecting and refracting telescopes; also, make and take home your own Star Finder. (Program is arranged in 4 centers.) S4E1, S4E2

Meteorology Madness (4)
Learn how the three elements of weather make up the water cycle. Use real weather instruments to measure temperature, barometric pressure, humidity, wind speed and wind direction. Make and take home your own windsock. (Program is arranged in 4 centers.) S4E3, S4E4

No Bones About It (5)
Learn the "bare bone facts" about classifying organisms. It's ok to be spineless as we explore the world of invertebrates. Compare and contrast different animals and plants by their physical structure. Get hands-on with skulls, Microslides, X-rays and more! Touch some of our LIVING invertebrates, if you DARE! (Program is arranged in 5 centers.) SSL1

What's the Matter (5)
Experiment with changes in matter. Discover the traits of mass, volume and density. Perform chemical changes as we mix acids and bases. See chemicals separate and taste how cool physical changes can be by making homemade chocolate ice cream. (Students will work in groups of 5 or 6.) S5P1

CELL-ebrate (5)
Investigate the difference between a plant and animal cell with Microslide Viewers and microscopes. Turn into a cell biologist as we extract banana DNA. Discover how your inherited traits help to make you who you are today! (Program is arranged in 4 centers.) S5L2, S5L3, S5L4

Geologica (5)
Get the facts on how natural phenomena formed and still affect the geology of your own backyard. See how constructive and destructive forces shaped and continually reshape the world, including Georgia’s own mountains, canyons, and barrier islands. Have fun as we model the movement of plate tectonics and erupt volcanoes right in your classroom. (Divide class into 4 groups) S5E1

Edison's Workshop (5)
Experiment with some “current” events in this electrifying program. Discover the direct connection between electricity and magnetism and how easy it is to alternate energy from one to the other. "Open" your mind to the possibilities as you "close in" on the workings of circuits with motors and lights. Run parallel paths through a series of experiments, connecting early discoveries to the present and future of energy. (Program is arranged in 4 centers.) S5P2, S5P3

Beyond the Standards

Chem Fun (K-2)
Find out how FUN making observations and predictions can be through chemistry. Learn the basics of chemistry and safety and practice describing physical properties as we STRETCH our science putty and our imaginations. See chemical reactions come alive as we erupt volcanoes. Watch colors change as we make our own color chromatography bookmark.

Forensic Fun
"Just the facts, please!" Explore the difference between TV crime-solving and real world Forensic Science. See how difficult it is to lift a usable fingerprint and match shoe prints. Study chromatography and try your hand at fiber analysis. Use our facial recognition software to see how good a witness YOU would make. (Program is arranged in 4 centers.)

We Do WeDo™ LEGO® Robotics
See the connection between machines and robots. Students build robotic mechanisms using Lego® WeDo™ kits and program them using specialized software and laptops we bring. Participants observe mechanics between the motors, gears/pulleys/cams/levers and the motion of their “robots.” A great extension of the study of machines.

The Real McCoy
Join us on a fun-filled adventure as we discover several very influential African-American scientists. Learn about their incredible contributions and have FUN as we do some really cool experiments while honoring these great scientists.

Brain Buzz
Enhance and enrich your unit on the brain as we map the anatomy and physiology of the brain. Learn how to compare the brain size of different quadrupeds by measuring their skulls. Touch REAL brains, eyeballs, hearts, kidneys, and stomachs...IF YOU DARE! Trick your brain with our optical illusions and learn a simple exercise that makes your brain stronger! (Program is arranged in 4 centers.)

*GOOD NEWS! FULL-LENGTH PROGRAMS ARE NOW DISCOUNTED*
We come to your school!

High Touch High Tech® offers a fun and educational 90-minute hands-on, interactive and sensory in-school experience. Our fee is $9.00 per student. If there are less than 60 students per day, there is a minimum charge of $540.00 per day. In addition, there is a $10.00 per day supply surcharge.

Parents or the PTA / PTO usually pay the fees. Schools currently receiving outside grants may use them for High Touch-High Tech programs.

High Touch-High Tech® provides all equipment and materials for this supply-intensive educational experience. Students receive digital certificates, and many programs provide take-home experiments.

We can present in a science lab, spare room, media center or your classroom.

Reservations are required and must be accompanied by a non-refundable (within 30 days of program date) deposit of $100 first day / $50 each subsequent day.

Please be ready to provide:
1. Number of classes & each class size
2. Dates requested
3. A schedule for three 90-minute sessions

Programs completed in August and September receive the discounted rate of $8.50 per student!

Teachers, administrators, principals & students agree on our value:

**“This was our best Chem Fun ever in 13 years! Our scientist was knowledgeable, had great control of the kids and she kept their interest!”**
-- Ms. Susan Blackman & Kathy Seagrave
Mt. Bethel Elementary, Marietta, GA

**“My students love to have the scientist in the classroom. The activities were excellent. Thank you for the time you put in. My students will remember these activities for the rest of their lives.”**
-- Ryan Zajdel
Sharon Elementary, Cumming, GA

**“I loved this program and how it’s directly aligned to the standards. The kids were engaged during the entire program!”**
-- Ms. M Whaley
Shelton Elementary, Dallas, GA

**“The children had a great time interacting with the presentation. This is an ESOL population, and one student said, “This is a great day in my life!”**
-- Ms. Diana Beverly
Lilburn Elementary, Lilburn, GA

**“This was excellent! It took the students to the next level. Students were engaged and had fun. The scientist was amazing!”**
-- Ms. Hannah Davies
Gilbert Elementary, Lafayette, GA

**“Our school (teachers, parents and students) love High Tough-High Tech! Our students learn the most from these field trips. Each year we book 4 trips for our third grade.”**
-- Ms. Lisa Beth Fry
Mt. Paran Christian School, Kennesaw, GA

**“It is almost overwhelming with the amount of information presented. It was the best field trip that I ever had the pleasure to participate in. Thank you!”**
-- Ms. Amy Bruns
Alpharetta Elementary, Alpharetta, GA

**“Excellent! Fits our Standards perfectly! Kids loved it so much!”**
-- Ms. Victoria Sinco
Sixes Elementary, Canton, GA

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**“Wonderful program! The children were engaged the entire time. We really got our money’s worth! I would recommend the program to anyone and everyone!”**
-- Ms. Millie Johnson
Fairington Elementary, Decatur, GA

**“Instructions were very clear, great interaction between instructor and kids. The kids said, “This is awesome!” and “Wish we could do this all the time!”**
-- Mr. Stephen Brown
Immaculate Heart of Mary School, Atlanta, GA

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