ABOUT CLASSES & OUTREACH

All programs are led by museum educators and employ hands-on activities to engage and educate. Discovery Lab’s curricula are designed to complement Oklahoma Academic Standards and employ open-ended facilitation techniques.

If you are reserving a museum class, outreach, or series, here are a few important things to note:

» Museum members receive 10% off when purchasing programming for their child’s class.

» Outreach classes and series delivered during regular school hours are limited to the number of students in one classroom.

» Outreach classes and series delivered outside regular school hours are limited to 20 students. Groups of 21-35 will require an additional educator at the cost of $50 per session. Groups larger than 35 students will need to split their group and reserve as two separate classes to ensure the greatest learning experience.

» Outreach classes beyond 40 miles round trip from the museum require an additional $.88 charge per mile.

To reserve a museum class or outreach program, please contact group sales at reservations@discoverylab.org or 539-664-5525.
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BIRTH TO THREE CLASSES

20 MINUTE CLASSES

Our early childhood classes introduce children to science concepts through sensory exploration. They have been developed with the child and caregiver connection in mind. All activities encourage opportunities for adult and child interactions.

Two consecutive class minimum
Cost: $100 for two consecutive 20 minute classes
+ $50 for each additional

Active Anatomy
Explore parts of the body and the vital organs that allow us to see, touch, and smell. Through movement and rhymes, children are introduced to their anatomy.

Common Threads
Children will explore shapes and patterns as they weave and thread with their hands and full bodies, engaging both fine and gross motor skills. They will explore the senses with textures of unique objects.

Fine Motor Fitness
Children will engage in a range of sensorimotor activities focusing on fine-motor development. They will practice grasping and writing motions as they explore painting with unusual techniques, textures, and colors.

Germ Detectives
Children will set out to find the germs that cause us to get sick. Through hands-on explorations, they will learn how quickly germs spread and how we can stop them in their tracks!

Hear, Hear!
Children will test their curiosities of unique objects to discover what sounds can be made. With adults and peers, they will work together to create personal sound sticks that inspire wonder through the sense of hearing.

Nano Nose Jr.
Through games that encourage gross-motor development and creative activities that motivate curiosity, students will be exposed to a range of potentially unfamiliar smells. Children will explore a variety of scents as they realize which smells make them smile.

To reserve a museum class or outreach program, please contact group sales at reservations@discoverylab.org or 539-664-5525.
STEM CLASSES
45 MINUTE CLASSES
Cost per class: $125

Bubble Science
Explore the rainbow of colors, three-dimensional shapes, and the number of bubbles you can make! Get your hands messy while performing simple experiments, making predictions, and investigating properties and formations.

Fantastic Forces
Forces are all around us! Explore ways that we use pushing and pulling in every-day life. Through creative games and screen-printing, children will discover the science behind moving objects.

Nano Nose
Tiny science has never been so smelly! Explore the nano world of science, developing awareness of sensory attributes and using sense of smell to experience science that is too small to see.

The Science of Seasons
Students will move around, acting out different seasons, and exploring what occurs in each season. They will explore the differences in clouds, discovering what makes it rain through a hands-on activity.

Shape & Create
Dance, design, and build! Explore the shapes within our world and learn how engineers use shapes to construct buildings we see all around us. Children will have the chance to use shapes found in every-day life as they design and create their own unique constructions with recycled objects.

Sound Science
Waves and vibrations and sounds, oh my! Create an instrument from recycled material, demonstrate how sound is created, and explore causes and effects of the waves and vibrations around us.

Survive and Thrive
Play games to learn what plants and animals need for survival and then create your own plant starter kit so you can continue the learning and growing at home or school.

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HEALTH & WELLNESS CLASSES
45 MINUTE CLASSES
Cost per class: $100

Animal Adventure
Students take an imaginary trek through the jungle, pretending to be explorers on a grand animal adventure. After their journey, students reflect on their trip with a short story and, to cool off, end the class with butterfly breathing.

Brain Games
Students study the structure and function of their brain while developing their cognitive capabilities. Through fun games, students practice awareness of self and others, self-control and regulation, focus and discipline, and how to find energetic balance.

Busy Bodies
Students learn the basics of anatomy by exploring it with their own bodies through movement and play. Moving and exploring the muscular system and skeletal system.

Creating Community
Students work in partnerships, on teams, and together as a community to practice effective communication and collaboration skills. With an emphasis on listening to others and celebrating differences, students develop a sense of responsibility as peacekeepers who desire to take care of their community and environment.

Exploring Emotions
Students explore their emotions through games and activities that encourage ways to express themselves. Students will learn ways to manage the emotional ups and downs of childhood through regulative tools.

Healthy Habits
Take a look at the dark side of sharing—sharing germs that is! See how germs and viruses spread and replicate through action-based activities. Finally, learn healthy habits in order to stop germs in their tracks.

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STEM CLASSES
1 HOUR CLASSES
Cost per class: $125

To reserve a museum class or outreach program, please contact group sales at reservations@discoverylab.org or 539-664-5525.

**Bee-Haviors**
Create a bee, do a bee communication dance, and act out unique honeybee jobs to collect pollen! Through action-based games and activities, children will learn why bees are important to humans, how bees communicate, and how pollination happens on the planet.

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**Canister Rockets**
A chemical reaction creates an explosive good time! By using the chemistry of acid and bases, you can create an instant rocket! This experiment highlights what happens when enough carbon dioxide is produced and pressure mounts.

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**Elephant Toothpaste**
Chemical reactions get foamy with this hot (exothermic) reaction. Feel the heat and see the bubbles as chemicals react and the elephant toothpaste expands.

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**Recycle This**
Being a responsible recycler is important. De-code recyclable plastics and develop possible solutions to reduce the human impact on the earth. Find out where all the trash goes while learning what “biodegradable” and “degradation” means and how science makes it happen.

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**Sound Science**
Waves and vibrations and sounds, oh my! Create an instrument from recycled material, demonstrate how sound is created, and explore how waves and vibrations affect how we hear the world around us.

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To reserve a museum class or outreach program, please contact group sales at reservations@discoverylab.org or 539-664-5525.
**Squishy Circuits**
Can you tell the difference between a conductor and an insulator? Investigate and experiment with different circuit configurations to power LED bulbs and motors in this powerful class.

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**Star-Gazers**
Join us on a voyage to outer space! Gaze into space to explore the sun, stars, and constellations. Design & construct a personal planetarium that models the patterns of our sun & stars.

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**Storm Chasers**
Why does Oklahoma have such wicked weather? Observe and participate in hands-on activities to develop an awareness of daily weather patterns in each of the four seasons to help you prepare for storms.

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**Trash Bots**
Build a simple circuit and see recycled materials transform into wiggly, jiggly robots! Investigate the effects of balance and challenge classmates to robot races.

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**What’s in Your Blood?**
How does blood help our bodies? Imitate the jobs of white blood cells, red blood cells, and platelets as you play a full-body, action-based game. Dive into these components through a hands-on sensory tub!

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Busy Bodies II
Students learn anatomy by exploring their own bodies through movement and play. Moving through the systems of the body, students exercise their muscles, listen to their heart with stethoscopes, and test their lung capacity. Students will also dive into the respiratory system and cardiovascular system.

Creating Community
Students work in partnerships, on teams, and together as a community to practice effective communication and collaboration skills. With an emphasis on listening to others and celebrating difference, students develop a sense of responsibility as peacekeepers who desire to take care of their community and environment.

Exploring Emotions
Students explore their emotions through games and activities that encourage healthy ways to express themselves. Students will learn regulatory tools to navigate the emotional ups and downs of childhood.

Yoga: Conquering Fear
Students build confidence and courage through challenging yoga poses that test their balance and acrobatic skill. While learning practical tools for overcoming fear, students encourage each other to try new things—from handstands to giving a presentation.

Health & Wellness Classes

1 Hour Classes
Cost per class: $100

Brain Games
Students study the structure and function of their brain while developing their cognitive capabilities. Through interactive games, students practice awareness of self and others, self-control and regulation, focus and discipline, and how to find energetic balance.

To reserve a museum class or outreach program, please contact group sales at reservations@discoverylab.org or 539-664-5525.
STEM CLASSES
1 HOUR CLASSES
Cost per class : $125

**Balloon Blast**
Investigate theories about balloons by pumping them to popping time. They will put their math skills to the test as they disprove the terminal popping circumference.

**Building Bridges**
Did you know there are four types of bridges? Teams will build a bridge, test if designs are engineered to meet measurement and weight requirements, and solve problems to improve their results.

**Earth and Beyond**
Do you ever wonder what is in our solar system? Discover how much empty space is out there and explore why “our star” is so bright and why we have night.

**Earthquake!**
Why do earthquakes happen and how do cities survive them? Compete in a seismic-wave race to discover the types of waves created by earthquakes. Test your knowledge by constructing buildings strong enough to withstand an earthquake simulation!

**Explosive Reactions**
Chemical and physical reactions will come to life in this explosive class. Students will try three experiments with exciting and explosive outcomes! Comparing the experiment results, students will identify chemical and physical changes.

**Infectious Science**
What is our immune system? Imitate the jobs of white blood cells, red blood cells, and germs as you move through a blood-cell action-based game. Create blood cell jars to a model and discover the functions of each component.

**Pipeline Engineering Challenge**
Moving liquid from one place to another is not as simple as it sounds. Construct a pipeline that successfully transfers liquid, while using tools to measure lengths and creating angles to improve your pipeline.

**Powerful Pollinators**
Students will dissect a flower to learn how pollinators impact the lives of humans. Students will design and create bee homes to help save the pollinators!

**Trash Bots**
Build a simple circuit and see recycled materials transform into wiggly, jiggly robots! Investigate the effects of balance and challenge classmates to robot races.

**Water’s Incredible Journey**
H2O, here we go! Take on the role of a water molecule as you venture on the journey that water takes around Earth. Students will learn the complex & varied stages of a water molecule’s existence.
HEALTH & WELLNESS CLASSES
1 HOUR CLASSES
Cost per class: $100

Brain Games
Students study the structure and function of their brain while developing their cognitive capabilities. Through interactive games, students practice awareness of self and others, self-control and regulation, focus and discipline, and how to find energetic balance.

Busy Bodies III
Students learn anatomy by exploring their own bodies through movement and play. They will move through the digestive system and nervous system.

Creating Community
Students work in partnerships, on teams, and together as a community to practice effective communication and collaboration skills. With an emphasis on listening to others and celebrating differences, students develop a sense of responsibility as peacekeepers who desire to take care of their community and environment.

Exploring Emotions
Students cultivate their emotional intelligence through games and activities that encourage healthy ways to express emotions. Students will learn regulatory tools to navigate the emotional ups and downs of childhood.

Testing Tools
Students and teachers learn research-based tools and techniques to relieve test anxiety. Through cross-lateral movements that integrate both halves of the brain, games that strengthen focus, and calming breathing practices, students gain practical methods to implement at school and home to healthfully prepare for a test.
Chemical Switch
Design a chemical reaction that will interrupt an electrical circuit for a light bulb.

Electric Motor
Design, build and test an electrical motor powered by a dry cell battery that rotates at the highest possible speed.

Ping Pong Launcher
Create a ping-pong ball launcher powered by a common household mousetrap that will hit a target.

Rubber Band Vehicle
Design, build and test a rubber band powered vehicle, which will carry a load the greatest distance.

Robotic Arm
Design, build and test an electrically controlled and powered robot which moves steel washers in sequence from one location to another.

Wacky Wonder Works
Design a mechanism that will launch a ping pong ball five feet away with as many steps as possible.

Toothpick Bridge
Design and build a model bridge, which will bear the most weight, using only wood toothpicks and carpenter’s wood glue.
To reserve a museum class or outreach program, please contact group sales at reservations@discoverylab.org or 539-664-5525.

**Series Cost : $900**

STEM series programs offer a scaffolding curriculum delivered over eight one-hour sessions during or after school. Extended learning time with the museum educator can be added to each session for $50/half-hour.

**Coding Science**

The coding series gives students an introduction to what coding is and the number of ways it can be used. Through both computer-based activities and hands-on games, students will gain experience in their coding abilities. Components may include:

- How Computers Think
- Coding Basics
- Algorithms
- Animation
- Trash Bots
- Bridges
- Paper Construction
- LEGO Challenge
- Code Making & Cracking
- Camouflage and Disguises

**Chemistry**

Students will take on the identity of chemists! From chemical reactions to states of matter, they will explore science through exciting, hands-on experiments. Throughout the series, they will dive into a range of chemical concepts, including slippery slime, water and surface tension, and popping rockets! Components may include:

- Polymer Beads & Worms
- Canister Rockets
- Tale of Two Slimes
- Liquid or Solid/Oobleck

**Engineering**

The engineering series encourages students to utilize problem solving skills while allowing them to be creative in their unique constructions. Students will learn about and explore the engineering design process, solve challenges, and create new structures using innovative materials. Components may include:

- Trash Bots
- Bridges
- Paper Construction
- LEGO Challenge
- Gadget Engineering
- Laser Dodge

**Mission: Discovery**

In Mission: Discovery, children will experience the STEAM behind spy identity. From cracking codes and writing secret messages to learning the skills needed for evading lasers, children will embody true spy identities. Components may include:

- Code Making & Cracking
- Camouflage and Disguises
- Gadget Engineering
- Laser Dodge

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### City Engineering

Students will plan, design, and build their personal miniature city while learning about and gaining a better understanding of how cities function. Individual projects involving circuitry and pipelines get students thinking about basic luxuries around them, while larger culminating projects like skyscrapers and bridges allow students to come together to create something collaborative! Components may include:

- Skyscrapers
- Electricity
- Bridges
- Pipelines

### Theme Park Science

Students will be introduced to engineering and design topics as they create unique theme parks! They will have the opportunity to engage in the design, build, and test process as they construct miniature versions of their favorite amusement park rides. Components may include:

- Circuitry
- Bumper Bots
- Roller Coasters
- Indoor Skydiving

### Coding Science

Coding has quickly become a highly demanded skill for a number of careers. Introduce students to coding concepts as they learn what coding is and how it can be used. Students will have the opportunity to create and code their own characters, leading to the creation of a unique video game! Components may include:

- Algorithm
- Bugs
- Build a Game
- Animating Sprites
Series Cost: $720

Health & Wellness Series Programs offer a coordinated curriculum delivered over eight one-hour sessions during or after school. Extended learning time with the museum educator can be added to each session for $50/half-hour.

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**Moving Physical Bodies**

Explore the anatomy of the human body through movement and play! Examine a different body system each week, moving through the body to see how the systems work together to make up a human being. This series is a good introduction to the human body, filled with lots of action based learning. Components may include:

- Digestive System  
- Skeletal System  
- Muscular System  
- Cardiovascular System

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**Exploring Emotional Intelligence**

Students cultivate their emotional intelligence through games and activities that further develop emotional awareness of themselves and others. They will learn appropriate ways to express their emotions and ways to respond to the emotions of others. This series is good for students who wish to enhance their understanding of emotions and navigate the emotional ups and downs of childhood. Components may include:

- Excitement  
- Anger  
- Fear  
- Exhaustion

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**Activating Mental Abilities**

Investigate the wonders of the human brain. While activating their cognitive abilities, students will explore how their brains function through the practice of self-awareness, self-control and regulation. This series is good for students who would like to practice cultivating energetic balance while learning the functions of the human brain. Components may include:

- Cultivating Awareness  
- Energize & Calm  
- Self-Control & Regulation  
- Focus & Discipline

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**Mind & Body Balance**

Students will learn tools to manage the imbalances of life and the importance of self-care. They will engage in guided movement such as yoga and calisthenics and reflective activities to encourage self-regulation. This series is good for students who enjoy facilitated movement experiences and who want to learn more about balancing the mind/body connection. Components may include:

- Regulation  
- Strength  
- Meditative  
- Balance

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GRADES 4 – 6 :: HEALTH & WELLNESS SERIES

Series Cost : $720
Health & Wellness Series Programs offer a coordinated curriculum delivered over eight one-hour sessions during or after school. Extended learning time with the museum educator can be added to each session for $50/half-hour.

Moving Physical Bodies
Explore the anatomy of the human body through movement and play! Examine a different body system each week, moving through the body to see how the systems work together to make up a human being. This series is a good introduction to the human body, filled with lots of action based learning. Components may include:

- Digestive System
- Skeletal System
- Muscular System
- Cardiovascular System

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- Anger
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- Exhaustion

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- Regulation
- Strength
- Balance
- Meditative

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SCIENCE DEMONSTRATION
20 minute Demo | up to 30 participants
Cost : $125 for two consecutive demos (two minimum demos) + $50 for each additional

**Current Events**
A literal high voltage demonstration of how electricity can travel through solids, liquids and even air! A Tesla Coil, electric pickle, and circuit stick will be used to spark your interest.

**Good Vibrations**
Learn about sound waves and vibrations, as well as interesting instruments! Turn up the amplitude, hit high frequencies, and make noise in this sound-filled demo!

**Liquid Light**
Discover three different types of chemical reactions, culminating in a liquid concoction that glows as bright as a bulb.

**Magical Science**
Explore the weird world of magical science, where water disappears into thin air, strands of beads levitate, and liquids that just won’t behave.

**Magna-Might**
Electro-what? Electromagnetism! See how electricity and magnetism are linked as we use magnets to make electricity and electricity to make magnetism.

**Motion Madness**
Learn all about Sir Isaac Newton’s first law of motion while witnessing incredible feats of physics in this edge-of-your-seat demonstration.

**Power of Air**
Learn all about the mysterious Bernoulli effect and its role in flight in this unique and engaging science demonstration.

**Rocket Science**
Watch as a chemical reaction turns explosive, launching canisters high into the air. Then discuss the expansion of hot gas in a real rocket, with fiery reaction to top it off!

**Radical Reactions**
Investigate physical and chemical reactions with some explosive and messy results.

**Shocking Static**
Learn how electrical charges build up and how oppositely-charged objects can impact each other in surprising ways! A Van de Graaff generator will have your hair sticking up, a pie plate jumping and make a cup fly.

**Under Pressure**
Experience the strange effects of air pressure, exploring the weight of the air above us on everyday objects.
SCIENCE ASSEMBLIES
One hour presentation | up to 250 participants
Cost: $250

**Electricity**
This shocking assembly will explore and examine: charges, currents, voltage, Van de Graaff, magnetism, milliamps, and much more.

**Motion Madness**
Learn all about Sir Isaac Newton’s first law of motion while witnessing incredible feats of physics in this edge-of-your-seat series of demonstrations.

**Radical Reactions**
Learn all about the mysterious Bernoulli effect and its role in flight in this unique and engaging science demonstration.

ASSEMBLIES & FESTIVAL BOOTHs

**Sizzling Science**
Explore what happens when we turn the temperature down—way down—with some sizzling results! We’ll explore the composition and properties of dry ice.

**Under Pressure**
Experience the strange effects of air pressure, exploring the weight of the air above us on everyday objects.

FESTIVAL BOOTH
2 hours | up to 3 activities with 2 educators | supplies for 200 participants
Cost: $300 + $75 for each additional hour

Bring STEAM discovery to your next event! Our festival booths provide pop-up STEAM activities for a far-reaching range of ages and interests. Customize your booth by selecting up to three activities that best fit your event needs.

**Blood Cell Sensory Tub**
Dive into the components of your blood with this hands-on sensory tub.

**Bubble Science**
Explore the properties and formations of bubbles in a large bubble table. *Note: This activity is recommended to be done outdoors. Sink access is preferred, but not required.*

**Earthquake**
Use blocks to construct a building strong enough to withstand an earthquake simulation table.

**Engineered Limbs**
Use building sets to engineer a hand that can pick up a ball.

**Flying Insects**
Create an insect out of recyclables to fly in a wind tube. *Note: This activity requires access to an electrical outlet.*

**Oobleck**
Some substances can act like both liquids and solids! Learn about these properties while getting your hands messy. *Note: This activity is recommended to be done outdoors. Sink access is preferred, but not required.*

**Shiny Science**
Practice your chemistry skills by shining metal money. *Note: Sink access is preferred, but not required.*

**Spin Art**
Explore the science of circuitry and power of electricity through creation of art.

To reserve a museum class or outreach program, please contact group sales at reservations@discoverylab.org or 539-664-5525.