

SCIENCE STARTER

Ages 4 to 5

Welcome to Science Starter, the first steps into the exciting world of discovery for curious little minds!

This week, campers will:

- **Make it Move:** Children will experiment with motion through playful activities—rolling, bouncing, spinning, and racing objects to see how things move in different ways.
- **Build It:** Campers become mini engineers as they stack, connect, and construct everyday materials. They'll learn the joy of building and problem-solving while creating their own imaginative structures.
- **Colour Exploration:** Exploring the magic of colour through painting, mixing, and light play, children will see how colours blend, change, and brighten their world.

At the end of Science Starter, your child will have discovered the joy of asking why and how. With every giggle, experiment, and “aha!” moment, they'll take their first steps toward becoming confident, curious learners.

ROAR AND EXPLORE

Ages 4 to 5

Get ready to Roar and Explore as we dive into the amazing world of animals and nature! This camp is packed with hands-on adventures designed just for our littlest explorers.

campers will:

- **Animal Superpowers:** Discover the coolest creature abilities, like speedy cheetahs and sticky geckos!
- **Sleepy, Sneaky, Seasonal:** Learn how animals change with the seasons. Who snoozes, who sneaks, and who shines?
- **Web of Life:** Explore how every animal, plant, and person is connected to nature's puzzle.

With games, experiments, and outdoor play, your child will laugh, learn, and leap into a week of unforgettable fun.

MACHINES IN MOTION

Ages 4 to 5

Little hands love big machines! Your young scientist will dive into the fascinating world of construction, motion, and machines through playful exploration and creative building.

We'll discover how big machines are made of smaller, simple machines like wheels, levers, and ramps, and then explore how we can use those same ideas to build, move, and play. Campers will:

- Pretend to be bulldozers, backhoes, and rollers as we act out the jobs of real construction crews.
- Experiment with ramps and slopes to see how things roll, slide, and zoom.
- Tinker with tools (kid-safe, of course!) and explore how machines help us do big jobs.

Whether your child loves trucks, tools, or just digging in the dirt, this camp is sure to spark their curiosity and build their confidence. Get ready for a week powered by little hands and big imaginations!

ONCE UPON A SCIENCE

Ages 4 to 5

Step into a world where imagination meets investigation. Young explorers will read into beloved tales and mythical creatures, all while uncovering the science that makes these stories come alive!

- Build houses with the three little pigs, but be careful, the Big Bad Wolf is going to try and knock them down!
- Discover the adaptations mythical creatures, like mermaids and dragons, would need to thrive in the real world.
- Fee, fi, fo fum, harness your green thumb to see how big you can make a beanstalk grow.

Join us for a week of curiosity, creativity, and discovery where every story becomes a scientific adventure!

LIL DINOS

Ages 4 to 5

Get your little dinosaur ready for a prehistoric adventure! Each day, campers will explore the fascinating world of dinosaurs through fun hands-on science activities, stories, and games.

- Become a paleontologist by making fossils and digging up dinosaur bones.
- Use the magic of chemistry to erupt a volcano.
- Stomp like a T Rex, honk like a Parasaurolophus and fly like an archeopteryx as campers pretend to be their favourite dinosaurs.

Your littles will enjoy a week filled with lava-ly experiments and dino-might discoveries.

DISCOVERY CAMP

Ages 6 to 8

For the kids who love to ask questions, build things, and investigate the wonders of the world around them, Discovery Camp lets you sample a bit of everything.

Each day, campers will explore a different branch of science through exciting activities:

- **Amazing Human Body:** Kids will explore how their bodies work, from bones and muscles to their brain and senses.
- **Energy Explorers:** What makes things move, light up, or power our world? Campers will investigate different types of energy
- **Junior Engineers:** Using everyday materials, campers will design and build structures, machines, and contraptions that solve real-world problems.

Discovery Camp is where curiosity leads the way, and every question sparks a new adventure. Let's explore the world together — one experiment at a time!

ROCKHOUNDS

Ages 6 to 8

Dig deep into the fascinating world beneath our feet, with the wonders of rocks, minerals, fossils, and soil.

- Explore how soil pH works and why it matters for gardens and forests.
- Learn about mining and how critical minerals will help shape our future.
- Identify rocks and minerals and learn the science of how they are formed.

With fun experiments, and lots of hands-on activities, this camp is perfect for young rockhounds who love science and nature!

BUG SAFARI

Ages 6 to 8

This camp will be buzzing with excitement! Join us for Bug Safari, a hands-on adventure into the tiny but mighty world of insects. Campers will creep and crawl into different insect-inspired themes, using their bodies, brains, and imaginations to explore how bugs live, move, and survive.

- Life in an Ant Colony: Campers will act out the roles of worker ants, queens, and soldiers as they “build tunnels”, carry “food,” and learn how teamwork keeps the colony strong.
- Build Protective Exoskeletons: Campers will construct bug armor and learn how exoskeletons help insects stay safe and strong.
- Bug Hunts & Field Journals: Campers will explore nearby habitats to search for real-life insects, record observations, and learn how scientists study bugs in the field.

With a mix of science experiments, outdoor play, and imaginative fun, Bug Safari is the perfect way to spark curiosity and celebrate the wonderful world of insects.

STEM IN SNEAKERS

Ages 6 to 8

Run, jump and compete! STEM in Sneakers is a high-energy camp where science meets movement.

Learn how our bodies work, how energy fuels fun, and how rest helps us grow stronger. Through active games, creative experiments, and team challenges, campers will discover that science isn't just in a lab, it's in every step they take!

Here's what they'll explore:

- **How we Move:** From muscles to bones to balance, campers will learn how their bodies power motion through fun activities, obstacle courses, and movement-based experiments.
- **Re-Energize:** What gives us energy to play and learn? Campers will explore how nutrition, digestion, sleep, and relaxation help their bodies stay strong and active.
- **Measure Up:** From heartbeats to hydration, campers will measure, test, and experiment with real data from their own bodies to see science in motion!

STEM in Sneakers is the perfect blend of learning and active fun. Campers will leave with a deeper understanding of their amazing bodies. Get ready to lace up and learn!

MISSION TO SPACE

Ages 6 to 8

Join us for an unforgettable journey through the cosmos, a week-long camp where young astronauts embark on a thrilling space adventure!

- Campers will start with space training, taking on physical and mental challenges in preparation for launch.
- They'll feel the excitement of blast-off as they explore the stars, then dive into the wonders of life in orbit.
- Campers will conduct experiments on alien landscapes and explore Canada's role on the International Space Station.
- Finally, they'll plan a safe return journey, working together to solve challenges and ensure a smooth re-entry. It's a stellar week of teamwork, discovery, and space-themed fun!

DRAWN TO CHANGE

Ages 6 to 8

Welcome to a camp where imagination and inquiry collide! Campers will explore the wonderful worlds of science and art, discovering how they work together to help us understand and shape the world around us.

This camp empowers youth to become creative problem-solvers and environmental stewards, using both scientific inquiry and artistic expression to explore solutions for a sustainable future.

Whether designing green spaces, painting with beet juice, or exploring the science behind color and light, campers will leave with a deeper appreciation for the interconnectedness of science and art and the power of both to inspire change.

BOARDGAME LAB

Ages 7 to 9

Step into a world where science meets strategy! This unique camp invites curious minds to explore the fascinating science of designing and building their own boardgames. Campers will dive into the mechanics of game design by learning how probability and logic shape the way games are played, while experimenting with themes from biology, chemistry, physics, and beyond.

Through hands-on workshops, participants will:

- Discover how scientific principles can be transformed into fun, interactive gameplay.
- Experiment with dice, cards, and boards to test probability, chance, and strategy.
- Design and prototype their own boardgames.

This camp blends STEM learning with imagination, encouraging teamwork, problem-solving, and creativity. By the end, every camper will walk away not only with a custom boardgame they've designed but also with a deeper appreciation for how science shapes the rules of play in the world around us.

MYSTERY MASTERS

Ages 7 to 9

Step into the shoes of a forensic investigator and explore the fascinating world of crime scene science! In this hands-on camp, young detectives will learn about the tools and techniques used to crack real-life mysteries.

Campers will examine footprint evidence, DNA samples, and more. Campers will discover new mysteries and use their detective skills to solve them!

Whether analyzing evidence or cracking secret messages, campers will experience the thrill of forensic science in a fun, interactive environment.

Get ready to uncover the truth, one clue at a time!

NEXT GEN STEM

Ages 7 to 9

In Next Gen STEM, curiosity comes alive through hands-on experiments and creative challenges! Campers will discover the future of STEM through real world challenges and activities.

Throughout the week, participants will:

- Clean Up Oil Spills: Learn about environmental science and engineering by experimenting with methods to protect ecosystems.
- Design a City: Explore civil engineering and urban planning as they build model cities that balance sustainability, safety, and creativity.
- Make a Battery: Step into the world of chemistry and electricity by creating simple batteries from everyday materials.

This camp isn't just about activities—it's about opening doors to future possibilities. Campers will see how STEM careers shape our world, from protecting the environment to inventing new technologies. With teamwork, problem-solving, and plenty of creativity, they'll leave camp inspired by the many paths STEM has to offer.

GAMIFICATION OF SCIENCE

Ages 7 to 9

specialty camp

Level up your skills with Gamification of Science! The exciting worlds of board games and video games come to life through the magic of math and science!

Join us as we dive into the mechanics behind your favorite games and explore how STEM concepts shape gameplay and design. Campers will engage in hands-on activities that reveal the secrets of game creation. From designing your own board game to coding simple video game elements, you'll develop essential skills in math, logic, and problem-solving.

Plus, this specialty camp will include a take home kit.

JR. DETECTIVES

Ages 7 to 9

specialty camp

Unlock the mysteries of the world at our Jr. Detective Camp! Young investigators will dive into exciting hands-on activities like analyzing fingerprints, examining clues, and solving thrilling whodunits using forensic science and problem solving. From investigating mock crime scenes to cracking secret codes, campers will sharpen their detective skills while having a blast! By the end of the week, your child will be a certified junior detective, ready to tackle any mystery that comes their way!

Plus, this specialty camp will include a take home kit.

TOMORROW'S INVENTORS

Ages 7 to 9

specialty camp

Campers will step into the shoes of tomorrow's innovators, scientists, and problem-solvers through exciting hands-on challenges that highlight the wide world of STEM and beyond.

- Environmental Science & Conservation: Campers will parachute beavers into new territory, just like real wildlife specialists once did to restore ecosystems.

- **Engineering & Energy:** They will make their own battery, exploring how engineers and electricians harness energy to power our modern world by experimenting with circuits
- **Biology & Biotechnology:** Campers will extract DNA from fruit, uncovering the building blocks of life.

This camp blends science, creativity, and career exploration, showing campers the many paths waiting for them in fields like environmental science, engineering, and biotechnology. By the end of the week, they'll not only have fun stories to tell but also a vision of how they can shape the future through their passions and skills.

Plus, this specialty camp comes with a take home kit.

STEM ADVENTURES

Ages 9 to 11

In STEM Adventures, every day is a new journey where science and imagination collide! Campers will step into thrilling adventures that challenge their creativity, teamwork, and problem-solving skills while exploring the wonders of STEM.

- **Terraforming a Planet:** Become space explorers tasked with designing habitats, creating sustainable ecosystems, and engineering solutions to make a new world livable.
- **Jungle Expedition:** Navigate the mysteries of the rainforest, studying biodiversity, building survival tools, and learning how ecosystems thrive.
- **Pirate Adventure:** Set sail on the high seas, mapping treasure routes, and experimenting with navigation and physics to outsmart rival crews.

Each adventure blends hands-on experiments, creative projects, and interactive storytelling, showing campers how STEM skills can unlock endless possibilities. By the end of camp, participants will not only have conquered daring missions but also discover how science, technology, engineering, and math empower them to shape their own future adventures.

PERCEPTION DECEPTION

Ages 9 to 11

Seeing is deceiving! Explore the mysteries of perception and illusions to discover how our eyes and brains can be tricked by light, colour, and motion. Uncover the science behind what seems like magic.

Camp highlights include:

- **The Amazing Eye:** Learn how vision works and why our eyes sometimes deceive us.
- **Illusion of Motion:** Discover how animation, persistence of vision, and optical tricks make still images come alive.
- **Science of Magic:** Explore the scientific principles behind classic illusions and “magic” tricks that amaze audiences.

By the end of camp, participants will not only have mastered mind-bending illusions but will also gain a deeper appreciation for the science of perception, physics, and psychology. It's a camp where curiosity, creativity, and discovery come together to show that sometimes, seeing isn't believing!

UP UP AND ENGINEER!

Ages 9 to 11

Calling all future engineers, architects, and astronauts!

Campers will explore the amazing world of engineering, they will create an interferometer to explore the science of light, tackle material and structures challenge to test their engineering skills, deploy a satellite, and experience the thrill of launching a rocket into the air!

This camp is perfect for curious kids who love to build, experiment, and imagine bold futures. Whether they dream of designing skyscrapers or exploring the stars, this camp will inspire them to think big and engineer even bigger!

THE ART OF CHANGE

Ages 9 to 11

Step into a world where imagination sparks innovation and creativity drives climate action! This hands-on camp blends the power of science and art to explore innovative solutions for a sustainable future.

Throughout the camp, participants will reimagine what's possible. Sketch futuristic smart cities, paint with natural pigments, and engineer solutions using recycled and repurposed materials. Every project is an opportunity to blend artistry with scientific thinking, inviting participants to imagine, design, and build a better world, one brushstroke and blueprint at a time.

This camp is more than just a summer activity, it's a launchpad for young changemakers to explore the intersection of art, science, and sustainability. Camper's ideas can help pave the way to a brighter, greener world, because the future isn't just something we wait for; it's something we create.

SCALES AND STEMS

Ages 9 to 11

Discover the wonders of the natural world through science, observation, and hands-on exploration! From tiny critters to towering trees, this camp invites curious minds to investigate how plants, animals, and ecosystems connect, and how we can protect the planet we share.

Camp highlights include:

- **The Great Outdoors:** Learn essential outdoor skills like navigation and staying warm.
- **Plants in Action:** Investigate how plants grow, interact with pollinators, and provide the foundation for life on Earth.
- **Animals and Insects:** From insects and amphibians to birds and mammals, learn how living things survive, communicate, and the important roles they play in a healthy ecosystem.

By the end of camp, participants will have experienced hands-on science, developed observation and critical thinking skills, and gained a deeper appreciation for the hidden connections in nature. It's a camp where curiosity, exploration, and creativity come together to show that even the smallest living things can make a big impact!

MEDIA MAKERS

Ages 9 to 11

Are your kids coming up with clever ideas for the next big viral video? Or maybe finding great new ways to explore their interests online?

During their week in Media Makers, campers will learn how to think critically about what they see on the internet and how to stay safe in the ever-evolving world of technology. This week will also explore the essential tools used to level up the skills needed to make an impact on our growing digital world. From editing photographs, learning about AI and exploring digital art, this week is sure to bring out the creativity and passion out of your young media maker!

LEADERSHIP LAB

Ages 12 to 13

Think like a team, lead like a scientist and experience summer camps in a new way. This camp is designed for young teens who are ready to take on challenges, grow their leadership skills, and discover the power of working together. Teens will learn to approach problems the way scientists do by breaking down and building up science experiments, exploring teamwork through neuroscience, and leading their own scientific projects.

Teens won't just leave with great memories—they'll walk away with confidence, stronger leadership skills, and the ability to think like scientists and act like teammates.

STEM LEADERS IN TRAINING

Ages 14 to 16

4 week program

This is a new and exciting opportunity designed for independent teenagers who are ready to take their leadership skills to the next level. Over the course of four weeks, participants will embark on a journey that blends personal growth, science communication, and real-world experiences.

For the first two weeks, teens will train alongside a Science North Bluecoat, gaining valuable skills in leadership development, science communication and teamwork.

In the second half of the program, teens will put their skills into action by working with younger campers; helping to lead activities, support camp staff, and inspire the next generation of curious minds all while gaining volunteer hours.

By the end of the program, participants will have:

- Gain hands-on leadership experience in a supportive environment.
- Practiced real-world communication and teamwork skills.
- Discovered how science and leadership intersect.

This program is perfect for teens who are ready to challenge themselves, grow as leaders, and make a difference in their community while having fun in a science-focused environment.