



# Science Camps & Discovery Days 2020

**July 13 – August 14, 2020**

Ages 3 – 11

STEM Camps, grades 2 – 6

Jr. Explorer Science Camps, grades K – 1

Discovery Days, ages 3 – 6

[Check out our prices  
for Summer 2020!](#)

Discounts available to  
May 15, 2020 – see page 6.

Scholarships available.

Science Camps & Discovery Days  
Plymouth, MI

**Inspire. Aspire. Attain.**



# Discovery Days

Discovery Days are 90-minute classes designed to expose children ages 3 to 6 (must be toilet trained) to a topic of interest. Students are encouraged to attend both early- and mid-morning sessions to create a week of half days. See page 6 for more information. Call to assist in a class and your child will attend at no cost.



## July 13 – 17

9:00 – 10:30 AM

- 1A. All about Me** *Ages 3 – 6*  
What am I like on the inside? How can I see, hear, taste, touch and smell? Can I make a pumping heart out of kids and listen to my heart beat with a tube stethoscope to take home? Make a stomach in a bag. Then learn about all that is unique about me. A “life-sized me” and my “Me Box” round out the fun.

11:00 AM – 12:30 PM

- 1B. Ooey Goey Fun** *Ages 3 – 6*  
Enjoy a mish-mash of craft activities including glitter globes, string things, spaghetti painting and more. Make your own Silly Putty. Mash mixtures and try finger painting, too. Enjoy all that gloops and glops.

## July 20 – 24

9:00 – 10:30 AM

- 2A. Transportation Station** *Ages 3 – 6*  
Everything that goes zoom! Learn about fire trucks, monster trucks, race cars, police cars and helicopters. Make a construction site and construction vehicles. Design a race track with your friends. Related stories and crafts round out the fun.

11:00 AM – 12:30 PM

- 2B. Outer Space We Go** *Ages 3 – 6*  
Make moon craters, a model of the sun, and galaxy slime. Count those puffy planets that you create. Make space-tacular crayon-resist space art. Then travel on a musical space voyage in your very own space helmet! Find out all about the sun, moon, stars and planets.

## July 27 – 31

9:00 – 10:30 AM

- 3A. Giants of the Earth** *Ages 3 – 6*  
Study the really big ones – dinosaurs, pterodactyls, mammoths, sharks and whales. Learn about some newly discovered dinosaurs. Meet Dinops, Kryptops, and even a dinosaur from Antarctica. Make your own fossils. Measure a whale and make woolly mammoth tusks. Are the tusks bigger than you?

11:00 AM – 12:30 PM

- 3B. Messy Monday . . .** *Ages 3 – 6*  
. . .and four other gooey days! Enjoy all the messy projects your parents are glad you’re experiencing at school. Try your hand at finger painting, and hand and feet painting. Can you make a sculpture, a beautiful peacock, and a scary mask?

## August 3 – 7

9:00 – 10:30 AM

- 4A. Love a Lizard** *Ages 3 – 6*  
Experience all things cute and scaly about reptiles and amphibians – real and imaginary. Can you make a slinky snake? a turtle puppet? Try your hand at reptile and amphibian bingo. Discover facts and fiction about these animals through crafts and activities.

11:00 AM – 12:30 PM

- 4B. Squish! Cut! Poke & Build** *Ages 3 – 6*  
Using different types of play dough, squish, pound, roll, poke and bring your creations to life! Whip up a magic fizzing potion and dip into the Wiggle Worm Brew. Discover squishy things around us and invent some ooey-squishy play toys.

## August 10 – 14

9:00 – 10:30 AM

- 5A. Creative Sea Creatures** *Ages 3 – 6*  
Start with the real stars of the sea – the puffer fish, sea anemones, sea shells and sea turtles. Craft a coral reef and an ocean paper sculpture. Can you make a sea squish bag-to-go? Create your own sea scene, mermaids and mermen using various art media.

11:00 AM – 12:30 PM

- 5B. Color a Rainbow** *Ages 3 – 6*  
Discover colorful, vibrant crafts. Catch a rainbow in a jar, craft a peacock, experiment with pastels, and enjoy finger painting in stunning colors. Mix your own Kool-Aid play dough and become a sculptor. Mold, design and create with edible and non-edible mixtures. Make a colorful ice sculpture, too.

# Junior Explorer Science Camps

Entering K – 1

9:00 AM – Noon

Latchkey: 7:30 – 9:00 AM

Junior Explorer camps are designed to help our young discoverers embark into the world of science. Before-camp latchkey is available starting at 7:30 AM. There is a Science EXPO for parents each Friday at 11:30 AM. Call to assist in a class and your child will attend at no cost. If you also have a student in the preschool classes, your Jr. Explorer may stay until 12:30 pm. See additional information on page 6.



July 20 - 24

## 2c. Preparing for Blast-Off

*Explore our galaxy with models, experiments and games.*

**Explore Our Galaxy:** Meet members Red Giant, White Dwarf, and our sun, too. Discover a zoo in the sky by playing connect the dots. Can you make stars twinkle? Design your own galaxy.

**Dropping in or Revolving Around:** Discover our moon and make your own craters. Create an incredible edible sun. Make your own spinner planet to experiment with the seasons.

**Everything Out There:** When does a comet have a tail? Meet Ceres and other asteroids big and small. Watch out! Make a bombarding asteroid! Meteor showers round out this day of fun.

**Create a Day in Space:** Design your own space suit complete with an astronaut's helmet and oxygen tanks. Can you and your astronaut friends build a space shuttle out of boxes?

**Prepare for Blast-Off:** What does it take to live in space? Sample space food, train like an astronaut, and make your own space station. What happens when you land on a gas planet?

*Parents, join us on Friday at 11:30 AM for the Space EXPO.*

July 27 - 31

## 3c. Is There a Doctor in the House?

*Learn about the human body through activities and fun!*

**Grossology 101:** Where does that juicy hamburger go after you gobble it up? Take an imaginary trip through your digestive system. Why is food so important for you to grow?

**Make Sense of the Senses:** Use your senses in new ways: catch a wave of sounds, do a detective touch, sniff out great smells, make color patterns that are pleasing to the eye, and taste test unusual flavors.

**No Bones about It:** How do bones and muscles work together? Dissect a chicken bone and measure your muscles. Do you have bendable bones? Can you make a life-size skeleton?

**Huff and Puff:** Get ready for the Olympics to test your endurance using your muscles, bones and lungs. Make a model of your lungs in action! What training do athletes practice to prepare?

**Small and Red:** Take a trip on a red blood cell just like the Magic School Bus. Learn why our blood flows through our body and the muscles that send it on its trip. Get up close with a model of human blood.

*Parents, join us on Friday at 11:30 AM for the All About Me EXPO.*

August 3 - 7

## 4c. Slippery Slimy Science

*Experience kitchen chemistry and have an atomic good time!*

**Making Science Matter:** Solids, liquids and gases, oh my! Not only are phase changes amazing, they can be delicious. Enjoy yummy ice pops, create an ice cream treat, and experiment with Milk Magic.

**Presto Change-O:** Get ready for some science surprises as chemical changes occur. Concoct dancing raisins, explode a volcano, and write secret messages with invisible ink.

**Go with the Flow:** Slosh, pour, dribble and stir wonderfully weird liquid. Take home a water cycle in a bag, make homemade bubble stuff, and try out your new 3-D wands.

**Strange but True Brews:** Watch miraculous molecules move, mix and un-mix right before your eyes. Make an egg bounce and take home some chemistry to go.

**Goo Globbs of Fun:** Create strange substances that don't behave like your typical solid, liquid or gas. Experience the mucky side of science with homemade silly putty, oobleck and more.

*Parents, join us on Friday at 11:30 AM for the Slippery Slimy Science EXPO.*

# Science Camps

Science camps are designed to immerse children, entering grades 2 – 6, in science and problem solving. Before- and after-camp latchkey is available. There is a Science EXPO for parents each Friday at 11:30 AM. See additional information about Summer Camps on page 6.



**July 13 – 17**

## 1D. K'NEX Physics

*This is a K'NEX engineering course based on STEM principles.*

Entering grades 2 – 6

Half Day: 9:00 AM – Noon

Full Day: 9:00 AM – 3:00 PM

Extended hours: 7:30 AM – 6:00 PM

**Roller Coaster:** You have probably been on a roller coaster, but have you ever made one? Construct a roller coaster with K'NEX specialized building equipment. Can you make a roller coaster using other materials?

**Renewable Energy:** Build nine fully-functional replicas of alternative energy-powered machines. Build it and test it using solar, wind and water power. Try your hand at a sail car, a hydroelectric generator, a wind-powered water lift and a solar shuttle.

**Forces, Energy, and Motion:** What do you already know about physics? Learn about gears, levels, and pulleys by building various mechanisms. Using K'NEX Bridges, can you build a bridge that can hold a brick? Put together eleven different types of vehicles. Investigate concepts of force, energy, and motion.

**Car Racing:** With a team, design a car out of K'NEX, then put it together! Test your car against another team. Whose car goes faster? Which car goes further? Now try to create a car out of other materials. What are your results?

**Simple Machines:** There are many machines in the world that do work for humans. How many different machines can you put together with these K'NEX building supplies? Expand your knowledge of machines and gears as you can construct your own creation.

*Parents, please join in the fun at the K'NEX EXPO on Friday at 11:30 am.*

**July 20 – 24**

## 2D. Gizmos & Gadgets

*Enjoy a week of toy-making the old-fashioned way, with no electronics.*

Entering grades 2 – 6

Half Day: 9:00 AM – Noon

Full Day: 9:00 AM – 3:00 PM

Extended hours: 7:30 AM – 6:00 PM

**Motion Commotion:** Laws of motion were never so much fun. Look at the different ways to move from here to there. Experiment with an inertia zoom ball, paddle power, and dart launchers. Get pushy with pinball physics.

**Get a Grip:** Experience friction in action. Make contraptions that stop and go at your command. Get “jiggy” with a jitter critter. See the force of friction at work with a Stop-and-Gobot.

**All Fall Down:** The force of gravity pulls everything down. You can put gravity to use or defy it. Use gravity to power a boat, bring a dinosaur to life, and tumble a troll head over heels.

**The Spin on Things:** What helps a washing machine wring water out of wet clothes and makes a boomerang return to you? From eggbeaters to water whirling down the drain to a day on planet Earth, spinning motion is everywhere.

**Balancing Act:** Discover the basics of balance as you make and design contraptions that wobble, waver, tilt, and finally rest in a perfect harmony of forces. Can you make a slithering snake or a perching parrot?

**Immersion:** On Wednesday visit the Michigan Science Center to experience STEM activities and a trip to the Engineering 4D Theater. Half-day students stay until 3:00 pm.

*Parents, join us on Friday at 11:30 AM for the Gizmos and Gadgets EXPO.*



**July 27 – 31**

**August 3 – 7**

### 3D. Grizzlies, Wolves and Raptors

*Using artifacts from the Grizzly and Wolf Discovery Center in W. Yellowstone, MT, learn about these amazing animals*

Entering grades 2 – 6

Half Day: 9:00 AM – Noon

Full Day: 9:00 AM – 3:00 PM

Extended hours: 7:30 AM – 6:00 PM

**Wolves and Grizzlies – Predator-Prey Dance:** Explore the world of mammals in the wild. Using LEGO® WeDo 2.0, explore predators and prey. And finally, pet a wolf skin and examine a bear skull.

**Dress Your Critter:** Using LEGO® WeDo 2.0, study extreme habitats and model the influence of habitat on the survival of animal species. Learn about the habitats of wolves, grizzlies and raptors, then create an animal of your own. Design the best habitat to keep your critter alive. Then create your creature and hide it in its habitat.

**Birds of Prey and More:** Learn about the web of life by studying the more unique members of the bird family. How do birds catch their prey? What is the physics behind their method of flight? Create a short video and try your hand at animation. Don't forget to analyze the bird of prey skull kit and explore talons first-hand.

**Owls and Bats:** How do bats navigate? Learn about echolocation and the physics of sound. Why do owls catch their prey at night? Learn about owls. Are they nocturnal or diurnal? Be a scientist by dissecting an owl pellet.

**Immersion:** On Wednesday, travel to Howell Nature Center to learn about wildlife and birds of prey. Half-day campers are picked up at 3:00 pm.

**Parents, join us on Friday at 11:30 AM for the Grizzlies and More EXPO.**

### 4D. Coding, Robotics and Simple Machines

*Where problem-solving and collaboration meet*

Entering grades 2 – 6

9 AM – Noon or 9 AM – 3 PM

Extended hours: 7:30 AM – 6:00 PM

**Coding Basics:** Start with OSMO® to learn the basics of coding. It's intuitive and fun. Then move to Scratch®, a programming language developed at M.I.T. Scratch®3.0 includes an extension so you can use it with LEGO® robotics.

**Build a Computer and Code:** Build a Kano computer that really works. You will be coding in CoffeeScript, a variant of JavaScript. Try your hand at a Pixel Clap Clock and a Pixel Hack. Then make your own coding creation.

**LEGO® WeDo 2.0:** Using all the specialized sensors to detect motion, sound, and color, program a robot to follow your commands. Build Milo the Science Robot and design a robot that can assemble a base on the moon. Program the glowing snail and make a spy robot.

**LEGO® Mindstorms:** In small groups, experience LEGO® Mindstorms. Can you show your teamwork and problem-solving skills to solve the Space Challenge? Once you design, build and program your robot, you can teach it to think and move on its own.

**All New – LEGO® Simple Machines:** Finally, put physics all together using LEGOs® and simple machines equipment. Make a merry-go-round, a go-cart and even an amusement park ride.

**Parents, join us on Friday at 11:30 AM for the Coding, Robotics & Simple Machines EXPO.**

# Science Camps continued

**August 10 – 14**

## 5D. Creative Scientists

*Learn about innovation from the best minds in history.*

Entering grades 2 – 6

9 AM – Noon or 9 AM – 3 PM

Extended hours: 7:30 AM – 6:00 PM

**Benjamin Franklin:** Don't get struck by lightning! Can you learn about electricity, just as Franklin did? Experiment with lithography and other print-making techniques using materials found at home. Make homemade paper with a blender!

**Sir Isaac Newton:** Seeing is believing! Observe what convex and concave lenses are by testing them with Jell-O. Build a periscope. Study an optics kit. Make a balloon propeller and blast off with a bottle rocket! Design a ramp, then test it with Hot Wheels.

**Leonardo da Vinci:** Paint like Leonardo! Try your hand at mirror writing and then design your invention, just like Leonardo. Can you draw a helicopter just as DaVinci did and make it fly? Can you draw a flying machine and create it?

**Galileo Galilei:** Blast off into space! Create a diorama of the solar system inside a telescope! Study the life cycle of a star. Generate constellations. Try your hand at pendulum painting. Reproduce art based on images from the Hubble telescope.

**Wright Brothers:** Start by creating a glider. The Wright brothers made 1,000 flights with gliders. Can you make your own? Replicate their flying machine. Assemble a paper model of their plane and experiment with a helicopter.

**Immersion:** Take a trip down history lane at The Henry Ford Museum and Greenfield Village. Visit the Wright Brothers and Thomas Edison, too. Half-day students stay until 3:00 pm.

*Parents, join us on Friday at 11:30 AM  
for the Mad Scientist EXPO.*



## Information for All Programs

*Congratulations on choosing New Morning School for summer learning and fun.*

**Early Bird Discounts and Fees:** Receive a 10% discount if you pay in full for two or more classes by May 15, 2020. If fees exceed \$350, a 50% deposit may be paid with registration and the balance due by June 1, 2020. See below for class fees.

**Snacks:** All students should bring a snack for mid-morning and afternoon. If staying for lunch, please pack a lunch. **For the safety of others, do not send food with peanuts or tree nuts. Thank you.**

**T-Shirts:** This year a t-shirt for each camper is free. Indicate the size of the t-shirt on the registration form. Please have your child wear the shirt each day to show our spirit!

**Life Threatening Allergies:** If your child has a life-threatening allergy and requires an epi pen, you are required to meet with the camp director at 8:15 am on the first morning of camp. You will receive required forms by email. The form requires a doctor's signature. Please bring a labeled epi pen (if needed) and email a close-up photo of your child.

**Volunteers:** If you would like to volunteer in Discovery Days or Junior Explorer, your child will attend at no cost. Volunteers arrive a half hour early and also help with clean-up. Please call the school at 734-420-3331.

## Discovery Days – Ages 3 – 6

9:00 – 10:30 AM and/or 11:00 AM – 12:30 PM

Class fee: \$54.00 per class.

Students are invited to stay for an early morning and a late morning session. Bring a snack. There is no charge for the supervised half hour between classes. Wear your free t-shirt. Children must be toilet trained.

## Junior Explorer Camps – entering grades K - 1

9:00 AM – Noon

Morning latchkey available 7:30 AM – 9 AM.

Class fee: \$105 per camp

Bring a snack and wear your free shirt.

## Science Camps – entering grades 2 – 6

Half days, 9:00 AM – Noon; or full days, 9 AM – 3 PM

Latchkey available 7:30 AM – 6 PM.

Latchkey fee of \$6.00/hr. is payable every Friday.

Class fee: \$115 per half-day camp

\$195 per full-day camp

Field trip fee: \$15 / camp

# New Morning School - 2020 Summer Class Registration Form

(one registration form per child please)

Child Last Name	Child First Name	Date of Birth
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	Week 1 7/13	Week 2 7/20	Week 3 7/27	Week 4 8/3	Week 5 8/10	Latchkey**		Cost Per Class	Total Due
Discovery Days* 9:00 - 10:30 AM	<input type="checkbox"/> 1A	<input type="checkbox"/> 2A	<input type="checkbox"/> 3A	<input type="checkbox"/> 4A	<input type="checkbox"/> 5A	n/a	n/a	\$54	
Discovery Days* 11:00 AM - 12:30 PM	<input type="checkbox"/> 1B	<input type="checkbox"/> 2B	<input type="checkbox"/> 3B	<input type="checkbox"/> 4B	<input type="checkbox"/> 5B	n/a	n/a	\$54	
Jr. Explorer Science Camp 9:00 AM - noon		<input type="checkbox"/> Camp 2C	<input type="checkbox"/> Camp 3C	<input type="checkbox"/> Camp 4C		<input type="checkbox"/> 7:30 - 9:00 AM	n/a	\$105	
Science Camp <b>HALF DAY</b> 9:00 AM - noon	<input type="checkbox"/> 1D	<input type="checkbox"/> 2D	<input type="checkbox"/> 3D	<input type="checkbox"/> 4D	<input type="checkbox"/> 5D	<input type="checkbox"/> 7:30 - 9:00 AM	n/a	\$115	
Science Camp <b>FULL DAY</b> 9:00 AM - 3:00 PM	<input type="checkbox"/> 1D	<input type="checkbox"/> 2D	<input type="checkbox"/> 3D	<input type="checkbox"/> 4D	<input type="checkbox"/> 5D	<input type="checkbox"/> 7:30 - 9:00 AM	<input type="checkbox"/> 3:00 - 6:00 PM	\$195	

\* Must be toilet trained. Cannot attend food-related classes if child has a food allergy.

\*\* Latchkey charges will be billed at the end of each week at \$6.00 per hour.

Science Camp  
Field Trip Fee

<input type="checkbox"/> Camp 2	\$15
<input type="checkbox"/> Camp 3	\$15
<input type="checkbox"/> Camp 5	\$15

CLASS COST	
TOTAL CLASS COST with 10% discount (if paid by May 15)	
T-shirt <input type="checkbox"/> YS <input type="checkbox"/> YM <input type="checkbox"/> YL <input type="checkbox"/> AS	FREE
<b>GRAND TOTAL</b>	

Date of Payment	Payment Method	Amount Paid	Name on Card	Card Number	Exp. Date	C.V.V.#	Signature
	<input type="checkbox"/> Cash <input type="checkbox"/> Check# _____ <input type="checkbox"/> Visa <input type="checkbox"/> MasterCard <input type="checkbox"/> AmEx						
	<input type="checkbox"/> Cash <input type="checkbox"/> Check# _____ <input type="checkbox"/> Visa <input type="checkbox"/> MasterCard <input type="checkbox"/> AmEx						

If fees exceed \$350, a 50% deposit may be paid with registration and the balance by June 1, 2020; otherwise 100% due at registration. Class fees are **NONREFUNDABLE** unless we are unable to accept your child. You will be notified if a class is full. Completed registration with credit card payment may be faxed to 734-420-0324. Check payments may be mailed or brought to the school.

EMERGENCY INFORMATION	Mother	Home Phone	Cell Phone	Email address	
	Father	Home Phone	Cell Phone	Email address	
	Home address			City	Zip
	Other Emergency/Pick-up Contact Name		Home Phone	Cell Phone	Relationship
	Physician Name		Physician Phone	Physician Address	
	Health Insurance Name		Health Insurance Number	Date of Last Tetanus Shot	
	Medications Taken/Purpose			Physical Impairments	
	Allergies		EpiPen? <input type="checkbox"/> Yes <input type="checkbox"/> No	Other Pertinent Medical Facts	

I hereby declare that I am the parent/legal guardian of the child named above who is enrolled at the New Morning School. I hereby give my consent, in the event that all reasonable attempts to contact me or the child's other parent or guardian named above have been unsuccessful, for:

- (1) The administration of any treatment deemed necessary by the physician I have name above, or, in the event that the preferred practitioner is not available, by another licensed physician or dentist, and
- (2) Transfer of the child, to \_\_\_\_\_ Hospital or any hospital reasonably accessible. This authorization does not cover major surgery unless the medical opinion of two other licensed physicians or dentists concurring in the necessity for such surgery are obtained prior to the performance of such surgery. I hereby release and discharge the New Morning School, its agent, employees, and officers, from all claims, demands, damages, actions, causes of action or suits of any kind or nature named above may suffer or incur as a result of the actions of the New Morning School in procuring medical treatment. In consideration of permission granted the child named above to participate in all school-related activities and to be taken on all field trips which are a regular or special part of the curriculum at New Morning School, I hereby release and discharge the New Morning School, its agent, employees, and officers, from all claims, demands, damages, actions, causes of action or suits of any kind or nature whatsoever, which the undersigned ever had, now has, or may ever have against the New Morning School, its successors or assigns, for all personal injuries, known or unknown, and injuries to personal property, caused by or arising out of, the above-mentioned field trips and activities. This consent and release of claims will be in effect throughout my child's stay at New Morning School.

**I give permission for my child's photograph and name to be used for information and publicity purposes**

I, the undersigned, have read this release and understand all of its terms. I execute it voluntarily and with full knowledge of its significance.

IN WITNESS WHEREOF, I have executed this release at (city)

Parent Signature

Date



# New Morning School

Full-Day Preschool – Grade 8  
14501 Haggerty Rd., Plymouth, MI 48170

734-420-3331 • 734-420-0324 fax  
www.newmorningschool.org  
nms@newmorningschool.com

**What Is New Morning School?** New Morning School is a state-certified, not-for-profit school for students in full-day preschool through grade 8. The school features individualized, hands-on learning with a focus on STEM classes; and welcomes a high level of parental involvement. Financial aid is available.

**Who Should Attend New Morning School?** The school is an exciting option for academically advanced students, those of average potential, and some students with special learning needs.

### Private School Education, September – June

**Me and My Shadow** – parent- toddler class • **Preschool** – mornings or full-day  
**Young 5s** – full-day • **Kindergarten & Pre-K** – mornings or full-day  
**Elementary** – grades 1 – 4 • **Middle School** – grades 5 – 8

**Low Student – Teacher Ratio** The average student: teacher ratio is 12:1. All programs are supported by parent aides, making the overall adult-to-student ratio as low as 5:1.

**See the School in Action!** Schedule a visit with Joan Barrett, Admissions Director, at a time that fits your schedule.  
Contact: joan@newmorningschool.com or 734-420-3331.

*New Morning School admits students of any race, color, national or ethnic origin, gender, sexual orientation, religion, family status, and socio-economic status to all the rights, privileges, programs and activities generally accorded or made available to students at the school. It does not discriminate on the basis of race, color, national or ethnic origin, gender, sexual orientation, religion, family status, or socio-economic status in administration of its educational policies, admissions policies, scholarship programs, and athletic and other school-administered programs.*



## Take a memorable break for summer fun at New Morning School



# SUMMER FUN

July 13 – August 14, 2020

- Discovery Days, ages 3 – 6
- Jr. Explorer Science Camps, K – 1
- Science Camps, grades 2 – 6

*"Jason talked nonstop every day when I picked him up."*

*"Kayla is more interested in science and learned a lot!"*

*"I would recommend this program to everyone!"*

*The STEM activities are excellent."*

*"The school does a great job making learning fun."*



**Thank you to our scholarship benefactors:**

