

DISCOVERY DAYS

SCIENCE CAMPS



JULY 6 – AUGUST 7, 2009



New! Advanced Lego® Camp, ages 7-11 - NEW! Junior Explorer Science Camps, ages 5-7



New Morning School

DISCOVERY DAYS



Discovery Days are 1-1/2 hour classes designed to expose children ages 3 to 6 (must be toilet-trained) to a topic of interest during a week's time. Students are encouraged to attend both early- and mid-morning sessions to create a week of half days. There is a half hour of supervised fun in between sessions for those taking both sessions. Discovery Days run Monday through Friday, in five one-week sessions. Please send a fruit or vegetable snack if staying for two sessions. See page 6 for more information. Call to assist in a class. Your child will then attend for free. Students with food allergies should not attend food-related classes.

Discovery Days 1: July 6 – 10, 2009

9:00 AM - 10:30 AM

1A. Transportation Station

Ages 3-5

Everything that goes zoom! Learn about fire and ambulance trucks, police cars and helicopters. Enjoy a visit from Thomas the Train.

1B. Creepy Crawlies

Ages 4-6

Create an ant restaurant (outside!) and grow butterflies (real ones). Make bug and insect prints, and watch the very quiet cricket. Stories and crafts round out the fun.

11:00 AM - 12:30 PM

1C. Make Your Mark

Ages 3-5

Styrofoam, potato, and nature printing start the fun. Enjoy printmaking and other painting techniques resulting in just-for-you artwork.

1D. Dinosaur Experts

Ages 4-6

Learn about our prehistoric friends – the favorites and some newly discovered ones. Meet Dinops (“fierce-eyed shark”), Kryptops (“old hidden face”), and even a dinosaur from Antarctica. Make a dinosaur book.

Discovery Days 2: July 13 – 17, 2009

9:00 AM - 10:30 AM

2A. Beach Blanket Bingo

Ages 3-5

From sand volleyball to building castles, what kinds of beach time fun can we bring inside? We'll weave a blanket, sing campfire songs, and design our own flip flops.

2B. Pond Heroes

Ages 4-6

Interested in frogs, salamanders and other amphibians? Create your own pond book, craft amphibians-to-go, and watch their life cycles in front of your eyes. Do you know about the California giant salamander and the southern leopard frog?

11:00 AM - 12:30 PM

2C. Build-it-up

Ages 3-5

A hair-raising, barn-raising good time! Build with boxes, sugar cubes, Popsicle sticks, and other recycled materials. Will it be a life-sized castle, doll house or fire station?

2D. Fairies

Ages 4-6

Start with Fairy Mary, Silver Mist, Iridessa and Tinker Bell, and then create your own fairy. Enjoy a party in the magical woods, make fairy-wear of your very own, and become a fairy expert.

Discovery Days 3: July 20 – 24, 2009

9:00 AM - 10:30 AM

3A. Wild Things

Ages 3-5

Monsters don't have to be scary. Meet Maurice Sendak's “Wild Things” and create your own. Enjoy silly monsters through stories, creative play and crafts in this monster-filled week.

3B. Wing-it!

Ages 4-6

Explore the world of butterflies and other animals that fly. Make your own Stلالuna, craft a dragonfly, and study hummingbirds. Songs, games and crafts help you spread your wings.

11:00 AM - 12:30 PM

3C. Water, Water Everywhere

Ages 3-5

Bubbles, waves and rain start the fun for buckets of water play and experiments. Water-friendly clothing is a must.

3D. Crazy Craft Fun

Ages 4-6

Start by using food to make works of art. Then use your imagination to turn household items into crafts of your own. Round out the fun with take-home toys. (Please, no children with food allergies.)

NEW! JUNIOR EXPLORER SCIENCE CAMPS

Junior Explorer 1: July 13 – 17, 2009

Earth Rocks: 9 AM – noon
Latchkey available 7 AM – 9 AM
Ages 5 – 7 (entering kindergarten, grades 1 & 2)

Geology Trek: Geology concepts come to life with almond bark magma, cracker-stacks, and squished colored taffy. Tackle some chocolate chip mining.

Out of this World: Planetary puzzles set the stage for learning about the solar system: the Sun, eight official planets, at least three “dwarf planets,” and other smaller bodies.

Rainforest Mysteries: Enjoy a day in the rainforest. Build your own tropical forest, create animals that are rainforest-hardy, become part of a food chain, and create an eco-snack.

Plant Detectives: Trees and other plants can tell a story. Build an eco-system in a bottle, make fashion accessories from “tree rings,” design a leaf-stenciled shirt, and have a root party.

Ocean in Motion: What lives deep in the ocean? Analyze sea water, investigate the inner workings of a squid, and create salt-er-ific deep sea creatures. Squish, goes the seaweed between your fingers!

Parents are invited to attend the Rocks Rock presentation on Friday at 11:30 AM.

Junior Explorer 2: July 27 – 31, 2009

Science EXPO: 9 AM – noon
Latchkey available 7 AM – 9 AM
Ages 5 – 7 (entering kindergarten, grades 1 & 2)

I’m a People Machine: Take a journey through the gut as you travel through a room-sized digestive system. Take a trip on a red blood cell and make edible cells.

Feathers, Feet and Flight: Let’s go eggs-ploring. Start in Antarctica with the penguin and travel to the Amazon to view the Blue and Gold Macaw. Create your own bird equipped for its habitat.

Experimenting Scientists: Sir Isaac Newton and his three laws of motion set the stage. Create paddle boats, rocket launchers, and twirling mini-copters.

Lights! Color! Action!: Black Magic chromatography is astounding! Make color patterns and design your own dyes. Craft a sun clock and experiment with prisms, mirrors and water.

Slippery, Slimy Science: The kitchen sets the stage for learning about chemistry fun. Slurp ice cream in a baggie and be a detective with invisible ink.

Parents are invited to a Science EXPO presented by the students on Friday at 11:30 AM.

Discovery Days 4: July 27 – 31, 2009

9:00 AM - 10:30 AM
4A. Sports Sampler **Ages 3-5**

This is head-to-toe action for the small set. Enjoy kicking, dribbling, throwing, and learning to play together with just-right-for-you games. Round out the fun with make-it-yourself toys.

4B. Messy Monday . . . **Ages 4-6**

and four other gooey days! Paint with pudding, build with mashed potatoes. What other kinds of goop can we play with? Dress for a messy and fun experience. (Please, no children with food allergies.)

11:00 AM - 12:30 PM
4C. My Pet Dinosaur **Ages 3-5**

Your imagination will lead you to your pet dinosaur – crafted just by you. Learn about dinosaurs and go on a fossil dig. Get Ready for the favorites – Tyrannosaurus, Stegosaurus, and Brontosaurus.

4D. Crash! Boom! Roll! **Ages 4-6**

Make a take-home earthquake and exploding volcano. Watch a tornado in a bottle. Get to the “core” of the problem while experimenting with papier maché and jelly geology

Discovery Days 5: August 3 – 7, 2009

9:00 AM - 10:30 AM
5A. Sticky Fingers **Ages 3-5**

Experiment with sticky substances and messy foods to make works of art. The gooey, sticky and messy crafts include Jell-O and slime. (Please, no children with food allergies.)

5B. Space Travel **Ages 4-6**

Propel yourself into the galaxy to learn about stars, planets and spaceships. Try your hand at space travel in your own spacecraft.

11:00 AM - 12:30 PM
5C. Circus Fun **Ages 3-5**

From clowns to balloons, games and snow cones, take a field trip to the circus with your imagination. Parents, join us on Friday at noon for the circus!

5D. Jack and the Beanstalk **Ages 4-6**

Fruits and vegetables never tasted so fun. Try sweet potato fries and polka dot applesauce. Fruit and veggie snacks are balanced with stories and crafts. (Please, no children with food allergies.)

SCIENCE CAMPS



Camp 1: July 6 – 10, 2009

Magic Mystery Tour

9 AM – 3 PM or 9 AM – noon

Latchkey available 7 AM – 6 PM

Ages 6 – 11 (completed kindergarten)

Kitchen Chemistry: Make CO₂ bubbles of all varieties, test absorption, and make rainbow candy and a crystal tree! Experiment with space food and pickled veggies! Mess with mixtures and investigate the differences between mixtures, colloids and solutions.

Acid or Base: Learn the basics of mixing chemicals. Make some chemical reactions and explosions! Pop a rocket and blow your top! Make acid and base indicators. Learn about pH at the Alien Juice Bar!

Mad Chemist: Study elements, compounds, solids, liquids, and gases! Make marshmallow bonds, stage an energy exchange, and magically make a shell disappear! Have fun with the Atom's Family, and learn about atomic structure, too!

Magic Potions: Be a chemistry detective! What is that mystery powder? Solve the cookie mystery for Mrs. Claus and it is Christmas in July! Make your food dance before your eyes! Play with polymers to identify mystery slime!

Houdini: Make fountains spout water and craft a magical, gravity-defying wand! Make a coin disappear and reappear right before your eyes! You'll go mad for all the magical disappearances! Combine Coco-Cola® and "presto chango" – it is magically clean and clear! You are the chemistry magician today!

Parents, join us on Friday at 11:30 AM for a chemistry magic show!

Camp 2: July 13 - 17, 2009

Beginning Robotics

9 AM – 3 PM or 9 AM – noon

Latchkey available 7 AM – 6 PM

Ages 7 – 11 (completed first grade)

This is an entry level camp for students who are new to programming. All levels are welcome. Learn about the sensors needed to program the Intelligent House, TriBot Vehicle and RoboArm! Use a light, ultrasonic, and sound sensor to control your robot's every move! Play a game of ball with these robots!

The Intelligent House for Design & Technology: Build a model of a house. Program the motor, lamp and light sensor. A multitude of household activities can be automated: lights, appliances, burglar and fire alarms, garage door, ceiling fans, locks and more!

RoboArm T-56-Machine: RoboArm T-56 is a sophisticated robotic arm that can lift, pivot, and grab objects with its claws. See how easy it is to program RoboArm T-56 to recognize and grab either a red or blue ball.

TriBot-Vehicle: TriBot is a flexible and fast three-wheeled driving robot. It takes advantage of all four sensors to do the job campers program it to do. TriBot can follow a line, feel objects, and see!

Complementary Activities

Complementary activities will include using the Dacta sets to explore simple machines and motorization. Build a robot from found items and craft an interactive roller coaster.

Parents, please join the fun at the Robotics EXPO on Friday at 11:30 AM.



Science camps are designed to immerse children ages 5-7 and 6-11 in science and problem solving. Before- and after-latchkey is available. The five week-long camps run Monday through Friday, July 6 - August 7, 2009.

See Additional Information about Summer Camps on page 6.

Camp 3: July 20 - 24, 2009

Amazing Animals

9 AM – 3 PM or 9 AM – noon

Latchkey available 7 AM – 6 PM

Ages 6 – 11 (completed kindergarten)

Feathers, Feet, and Flight: Take off with your feathery friends to learn about how a bird's body works using a variety of everyday objects! Figure how a bird flies and why lightweight bone structures are needed for this endeavor in the air! Investigate funny feet and beaks! Dissect a bird's meal – the wiggle worm! If you'd rather not, dissect the egg instead!

Let's Hear it for the Herbs! (Herbivores, that is): Gather a whole gaggle of knowledge from the monkeys, anoles, reptiles and amphibians! Ant architecture is amazing for learning about shelters! Design a bird's nest blueprint to round out the plant-filled day!

The Predator: Who do you suppose would like to hunt a bird? A big cat! Explore the circle of life with lions and tigers! Look inside at the mighty beast's lungs and heart! Make your own working lung and heart using found objects. Do you have animal instincts?

Microscopic Mites: Magnify the miniature microscopic green machine! Look into the world of the tiniest animals with a microscope. See the sow bug. Study how the the slithering paramecium and other protozoa move. Focus in on the animal cell, too!

Protect our Habitat: Leave the smallest footprint on the earth. The ozone, global warming, and pollution will be contemplated through experiments and exploration. Enjoy a web-quest on the Manatee to learn how to protect endangered animals and their habitats.

Parents, join us on Friday at 11:30 AM for an Amazing Animal Safari.

Camp 4: July 27 – 31, 2009

Advanced LEGOS®

9 AM – 3 PM or 9 AM – noon

Latchkey available 7 AM – 6 PM

Ages 7 – 11 (completed first grade)

For campers with previous experience with LEGO® Mindstorms® or a previous summer, LEGO® class:

Welcome Back, Alpha Rex-Humanoid and Spike-Animal:

These specially-built LEGO® creatures are back and ready for advanced acrobatics with new equipment to increase the challenge. What advanced programming challenges will you solve?

Advanced Programming: A quick review, but then it is all new for our experienced LEGO® campers! With advanced equipment, program these little critters to talk, and complete multi-step programs designed by you. Use the advanced sensors to build a task-specific robot. What can you make them do?

Color and Compass Sensors: Enable your robot to distinguish between a range of bright and pastel colors. The compass sensor is able to measure the earth's magnetic field and calculate a magnetic heading to tell which direction your robot is facing.

Accelerometer and Gyroscopic Sensors: Use the accelerometer sensor that lets your LEGO® robot know which way is up, left or right, and side to side. The three-axis accelerometer sensor also measures acceleration, so you can measure G-forces just like jet fighter pilots. A gyroscopic sensor lets you build NXT robots that can detect rotation using a single-axis gyro based on a quartz resonator.

Parents, join us on Friday at 11:30 AM for a lesson on programming taught by the campers.



Camp 5: August 3 – 7, 2009

The Engineering of Physics
9 AM – 3 PM or 9 AM – noon
Latchkey available 7 AM – 6 PM
Ages 6 – 11 (completed kindergarten)

Strange but True Brews: Watch miraculous molecules move, mix, and un-mix right before your eyes! What physics principle makes them dance and dodge? Be a human brew! Make water turn to stone before your eyes!

Engineering the Earth: What makes the world go round? Can you create a working model Earth? See that everything on our Earth, solar system, galaxy, and universe moves and interacts. Forces play a big part in that. Why is it windy? Learn which forces make Michigan's weather so wacky.

Walk on Water: If an insect can do it, why can't you? How does this tiny insect walk on water? Build a water walking insect after exploring the physics behind the miracle.

Engineering Magic: How does it work? How did they get it to go so fast? Use your science skills to take apart a device and figure out how it works! Be an inventor and create complex machines and gadgets! Learn about bubble gum physics and chomp your way to understanding speed, time and rate.

All Fall Down: The force of gravity pulls you down. Use it or defy it! Power a boat; bring a dino to life; and tumble, roll, and fall head over heels for gravity!

Parents, join us on Friday at 11:30 AM for a display of Physics Fun!

Summer Camp T-Shirts

All students will receive a t-shirt on the first day of camp. Please have your camper wear it every day.

What to Bring

Discovery Days

Please send your children with a fruit or vegetable snack if they are staying for two classes. Children should be toilet-trained. Students with food allergies should not attend food-related classes.

Science Camps

Campers should wear comfortable clothes, bring a lunch and pack a fruit or vegetable snack. Bring additional snacks if latchkey.

Class Fees and Volunteer Help

Discovery Days

The class fee for each Discovery Days class is \$60. Students are invited to stay for an early morning and a late morning session. There is no charge for the half hour between classes. Call 734.420.3331 for information on assisting in a Discovery Days class. Your child would then attend free. Assistants come early for set-up and stay late for clean-up.

Junior Explorer Camps

Ages 5-7 (entering K,1, 2) 9:00 am - noon
 \$115 per camp

Science Camps

Sign up for half days, 9:00 AM to noon, or plan a full day of fun, 9:00 AM to 3:00 PM. Campers should have completed kindergarten for camps 1, 3 & 5; completed first grade for camps 2 & 4.
 \$215 per full-day camp
 \$115 per half-day camp

Allergies

Please call the school if your child has any allergies requiring an epi-pen.

Latchkey

Day care is available 7 - 9 AM and/or 3 - 6 PM for science camps only. \$8 per AM or PM, per family. Fees paid on Fridays.

About the School

New Morning School offers school-year (Sept. - June) classes for children in preschool through grade eight. Students learn in small class sizes (12 students per teacher) and work at their own pace, challenging each student. Classes offered:

- Parent-toddler classes once a week
- AM or PM preschool classes
- Full or half-day kindergarten
- Elementary, grades 1-4
- Middle school, grades 5-6 & 7-8



NEW MORNING SCHOOL - 2009 SUMMER CLASS REGISTRATION FORM

Please use one registration form for each child. Class fees are NONREFUNDABLE unless we are unable to accept your child. We will notify you if a class is full. Completed registration forms can be faxed with credit card payment to 734.420.0324 or mailed with payment.

SESSIONS AND CAMPS/METHOD OF PAYMENT

Child's name _____ Date of Birth _____

DISCOVERY DAYS* (circle session):

SCIENCE CAMPS (check camps desired below): **LATCHKEY****

	Session 1 7/6	Session 2 7/13	Session 3 7/20	Session 4 7/27	Session 5 8/3	Camp 1 7/6	Camp 2 7/13	Camp 3 7/20	Camp 4 7/27	Camp 5 8/3	7-9 AM Latchkey	3-6 PM Latchkey
9:00 - 10:30 AM	1A 1B	2A 2B	3A 3B	4A 4B	5A 5B							
11:00 AM - 12:30 PM	1C 1D	2C 2D	3C 3D	4C 4D	5C 5D							
9:00 AM - 3:00 PM	JUNIOR EXPLORER SCIENCE CAMPS:											
9:00 AM - noon		7/13		7/27								
Fees	Discovery Day* sessions x \$60 = \$ _____					Full-Day Camps x \$215 = \$ _____						
	* Must be toilet-trained and cannot attend food-related classes if food allergy.					Half-Day Camps x \$115 = \$ _____						
	Total Discovery Day Sessions and Science Camps \$ _____											

** Please indicate if you plan to use latchkey services. The fee is \$8 per family per AM or PM, payable on the Friday of each week.

T-shirts (circle) Youth S | M | L Adult S

NEW: Total fees under \$215 must be paid in full with registration. If fees exceed \$215, a 50% deposit may be paid with registration and the balance paid by June 11, 2009.

Check enclosed for _____ Charge my ___ Visa ___ MasterCard for \$ _____ Name on card _____
Cardholder Signature _____ Account Number _____ Exp date _____ CVV _____

EMERGENCY INFORMATION AND RELEASE OF CLAIMS

Home address _____ City _____ Zip _____ Phone _____
Mother's full name _____ Work phone _____ Email: _____
Father's full name _____ Work phone _____ Email: _____

Person, other than parent to be notified in emergency situation when parent is not available (also allowed to pick up student)

Name _____ Address _____ Phone _____
Name of Physician _____ Address _____ Phone _____
Health Insurance Name _____ Health Insurance Number _____
Allergies _____ Epi-pen? _____ Physical Impairments _____
Medications being taken _____ For what purpose _____
Date of last tetanus shot _____ Other pertinent medical facts _____

I hereby declare that I am the parent/legal guardian of the child(ren) named above who are 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:

- The administration of any treatment deemed necessary by the physician I have named above, or, in the event that the preferred practitioner is not available, by another licensed physician or dentist, and
- The 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 agents, 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 School, its successors or assigns, for all personal injuries or illnesses, known or unknown, which the child 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 agents, 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(ren)'s photograph and name to be used for information and publicity purposes (Internet use without names).*

I, the undersigned, have read this release and understand all 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 _____

OFFICE USE

Total fees _____	Amt. Paid _____	Date Rec'd _____	Check no. _____	Processed on card # _____
	Amt. Paid _____	Date Rec'd _____	Check no. _____	Processed on card # _____



SUMMER FUN

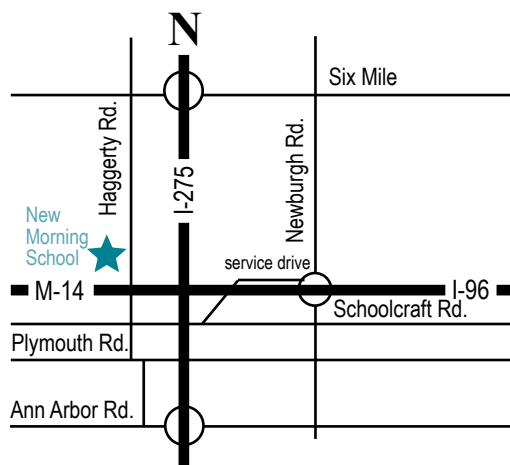
July 6 - August 7, 2009

5 weeks of Science Camps (Ages 6-11)

2 weeks of Junior Explorer Science Camps (Ages 5-7)

5 weeks of Discovery Days (Ages 3-6)

Take a memorable break for summer fun at New Morning School this year!



"Sandra loved class every day. She will be back next year."

"Good showing for New Morning School!"

"The staff is awesome!"

"We love New Morning School's camps! Thanks!"



New Morning School

Pre K-8 Parent Cooperative

14501 Haggerty Road • Plymouth, MI 48170

734.420.3331 • 734.420.0324 fax

www.newmorningschool.com

newmorning@newmorningschool.com

Non Profit Organization

U.S. Postage

PAID

Permit No. 267

Plymouth, MI 48170

New Morning School is a state-certified, not-for-profit school for students in preschool through grade eight. It stresses individualized learning, student decision-making, goal-setting, and hands-on learning. The school has been recognized nationally as a model cooperative and is a member of the Association of Independent Michigan Schools.

Private school education, September through June, is offered for the following classes:

- Parent-toddler, once a week
- Preschool, morning or afternoon classes
- Kindergarten, half- or full-day
- Elementary, grades 1- 4
- Middle school, grades 5-6 & 7-8