Presented by Sloan Museum & Longway Planetarium Educators

CHOOSE FROM 40 CAMPS AND WORKSHOPS!

SloanLongway.org/Summer
REGISTRATION FORM

SPACE IS LIMITED Please send in your registration and payment together.

Name(s)_________________________ City_________________________

State________________ Zip________________

Parent Name________________ Home Phone________________

Work Phone________________ E-mail________________

Please make checks payable to: Longway Planetarium
Mail to: Longway Planetarium 1310 E. Kearsley St. Flint, MI 48503

Please indicate number of participants for each session. Please write name of each child if registering more than one child.

If you have any questions, please call (810) 237-3409. Registration deadline is one week prior to the activity; however, camps and workshops frequently sell out. Register early to secure your spot. **No refunds will be issued for any reason.**

Please note: If you have missed the registration deadline, please call (810) 237-3409 to check availability.

Members receive $1 off workshops and $5 off camps. Please call (810) 237-3409 to receive your discount.

Multi-day camps are highlighted

### 4-5 YEAR OLD CAMPS & WORKSHOPS

- **Kinderscience Camp:** Tinkering Engineers  
  Monday, June 22–Wednesday, June 24  
  1:00–4:00 p.m. $65

- **Popping Curiosity**  
  Tuesday, June 30, 1:00-3:00 p.m. $9

- **Magnet Madness**  
  Thursday, July 2, 9:00-11:00 a.m. $9

- **Kinderscience Camp:** Space Voyagers  
  Monday, July 6–Wednesday, July 8  
  1:00–4:00 p.m. $65

- **Treasure Hunters**  
  Monday, July 13, 9:00-11:00 a.m. $9

- **Mighty-Mites Math**  
  Wednesday, July 15, 1:00-3:00 p.m. $9

- **Kinderscience Camp:** Water Explorers  
  Monday, July 20–Wednesday, July 22  
  9:00 a.m. –12:00 p.m. $65

- **Planes, Trains, and Automobiles**  
  Monday, July 27, 9:00-11:00 a.m. $9

- **Our Bodies as Machines**  
  Wednesday, July 29, 9:00-11:00 a.m. $9

- **Kinderscience Camp:** Nature Detectives  
  Monday, August 3–Wednesday, August 5  
  1:00–4:00 p.m. $65

- **Dino-Dig**  
  Tuesday, August 4, 9:00-11:00 a.m. $9

- **Teddy Bear Picnic**  
  Thursday, August 6, 9:00-11:00 a.m. $9

### 1ST-3RD GRADE CAMPS & WORKSHOPS

- **What's the Matter?**  
  Monday, June 22, 1:00-4:00 p.m. $12

- **Science is a Work of Art**  
  Monday, June 29, 9:00 a.m.-12:00 p.m. $12

- **Anishinabe: Past, Present, Future**  
  Wednesday, July 1, 1:00-3:00 p.m. $9

- **STEM Discovery Camp**  
  Monday, July 6–Friday, July 10  
  9:00 a.m.–12:00 p.m. OR  
  Monday, July 20–Friday, July 24  
  1:00–4:00 p.m. $95

- **Pollution Solution**  
  Monday, July 13, 1:00-3:00 p.m. $9

- **Geology Rocks!**  
  Tuesday, July 14, 9:00 a.m.-12:00 p.m. $12

- **Mission Control**  
  Thursday, July 16, 1:00-4:00 p.m. $12

- **Unraveling the Mysteries of the Human Body**  
  Monday, July 27, 9:00 a.m.-12:00 p.m. $12

- **Geo Art**  
  Wednesday, July 29, 1:00-4:00 p.m. $12

- **Wonders of the World Camp**  
  Monday, August 3–Wednesday, August 5  
  9:00 a.m.–12:00 p.m. $65

- **Plant Life**  
  Thursday, August 6, 9:00 a.m.–12:00 p.m. $12

### 3RD-6TH GRADE CAMPS & WORKSHOPS

- **Alpha Omega Girls Camp: Make It Move**  
  Monday, June 22–Friday, June 26  
  9:00 a.m.–12:00 p.m. $95

### 4TH-6TH GRADE CAMPS & WORKSHOPS

- **Voyage to Space**  
  Thursday, June 25, 1:00-4:00 p.m. $12

- **Makers Challenge**  
  Tuesday, June 30  
  9:00 a.m.–12:00 p.m. $15

- **Changing Earth**  
  Wednesday, July 1, 9:00-11:00 a.m. $9

- **Green Thumb Gardeners**  
  Monday, July 6, 1:00-4:00 p.m. $15

- **Take to the Sky**  
  Wednesday, July 8, 1:00-4:00 p.m. $12

- **STEM Exploration Camp**  
  Monday, July 13–Friday, July 17  
  9:00 a.m.–12:00 p.m. $95

- **Tangled Teasers**  
  Monday, July 20, 9:00-11:00 a.m. $9

- **Waves and Wrecks**  
  Wednesday, July 22, 9:00 a.m.–12:00 p.m. $12

- **Journey to the Past Camp**  
  Monday, July 27–Friday, July 31  
  1:00–4:00 p.m. $95

- **Chemistry Under Pressure**  
  Monday, August 3, 9:00 a.m.-12:00 p.m. $15

- **Artistically Scientific**  
  Wednesday, August 5, 1:00-4:00 p.m. $12

### 5TH-8TH GRADE CAMPS & WORKSHOPS

- **Living Green**  
  Tuesday, June 23, 1:00-4:00 p.m. $12

- **Kitchen Chemistry**  
  Monday, June 29, 1:00-4:00 p.m. $12

- **Life in the Roman Empire**  
  Thursday, July 9, 1:00-4:00 p.m. $12

- **Makers Challenge Camp**  
  Monday, July 20–Wednesday, July 22  
  1:00–4:00 p.m. $65

- **Aerospace Engineering**  
  Tuesday, July 28, 9:00 a.m.–12:00 p.m. $15

TOTAL DUE: $________
4-5 YEAR-OLD CAMPS & WORKSHOPS

Kinderscience Camp: Tinkering Engineers
Monday, June 22–Wednesday, June 24
1:00–4:00 p.m.
$65 at Longway Planetarium
Be a problem-solving architect, carpenter, and mechanical engineer as you build your own creations using everyday objects!

Treasure Hunters
Monday, July 2
9:00–11:00 a.m.
$9 at Longway Planetarium
“X” marks the spot! Use your mapping skills to hunt for a special treasure located at the spot marked with a red “X.”

Mighty-Mites Math
Wednesday, July 15
1:00–3:00 p.m.
$9 at Longway Planetarium
Think like a mathematical genius as you investigate objects based on length, weight, and height.

Kinderscience Camp: Space Voyagers
Monday, July 6–Wednesday, July 8
1:00–4:00 p.m.
$65 at Longway Planetarium
Voyage through outer space as you learn about the sun, moon, stars, and planet Earth through hands-on experiences.

Popping Curiosity
Tuesday, June 30
1:00–3:00 p.m.
$9 at Longway Planetarium
Engage your five senses to explore a POPular salty snack. What does it smell, feel, taste, look, and sound like?

Magnet Madness
Thursday, July 2
9:00–11:00 a.m.
$9 at Longway Planetarium
Use hands-on tools and materials to explore the properties of magnets. How do they work? How do we use them in everyday life? We will even build our own structures using magnetic blocks!

Our Bodies as Machines
Wednesday, July 29
9:00–11:00 a.m.
$9 at Longway Planetarium
Our bodies help us do important things every day! Have you ever noticed that our bodies work like machines? Join us as we safely use our bodies to complete tasks, just like machines.

Kinderscience Camp: Nature Detectives
Monday, August 3–Wednesday, August 5
1:00–4:00 p.m.
$65 at Longway Planetarium
Let’s explore nature! Learn about daytime and nighttime animals, examine creepy crawlers, and go on a nature hunt.

Dino-Dig
Tuesday, August 4
9:00–11:00 a.m.
$9 at Longway Planetarium
Become a paleontologist for the day! Let’s create our own fossils and use scientific tools to uncover, examine, and build dinosaur bones.

Planes, Trains, and Automobiles
Monday, July 27
9:00–11:00 a.m.
$9 at Longway Planetarium
Do you love planes, trains, and automobiles? Let’s work together to discover how these modes of transportation operate.

Teddy Bear Picnic
Thursday, August 6
9:00–11:00 a.m.
$9 at Longway Planetarium
Bring your favorite stuffed friend for a teddy bear picnic in the Longway Planetarium garden! We’ll go on a garden hunt, make lemonade to drink, and play teddy bear games.

For more information, call (810) 237-3409
What’s the Matter?
Monday, June 22
1:00–4:00 p.m.
$12 at Longway Planetarium
We encounter the three states of matter in everyday life. Explore the scientific properties of solids, liquids, and gases through hands-on activities.

Science is a Work of Art
Monday, June 29
9:00 a.m.-12:00 p.m.
$12 at Longway Planetarium
If you enjoy both science and art, you will love this experience! Let’s combine our scientific and artistic skills to create magnificent, meaningful pieces of art.

Anishinabek: Past, Present, Future
Wednesday, July 1
1:00–3:00 p.m.
$9 at Longway Planetarium
Step back in time and learn about the Native Americans that traveled to the Great Lakes region. Discover what tribes settled in this area and what daily life was like. Explore how life has changed over the years and create a piece of art that is still created by Anishinabek today.

STEM Discovery Camp
Monday, July 6–Friday, July 10
9:00 a.m.-12:00 p.m.
OR
Monday, July 20–Friday, July 24
1:00–4:00 p.m.
$95 at Longway Planetarium
Kids will explore these exciting science, technology, engineering, and math topics:
Dinosaur Discovery: Learn how fossils were formed while making your own fossil model. Use clues from “fossil finds” to piece together a Box-A-Saurus, while thinking about how dinosaurs lived in their environments.
Weather: Weather can be wild! Explore severe weather while learning how weather works.
Bugs: Go on a bug hunt in the planetarium garden and explore the lives of insects, spiders, and other crawlers. Compare and contrast life cycles and investigate camouflage and mimicry.
Tinker Lab: Use a variety of materials in new and creative ways. Play with light and shadows, create noise makers, and craft a bracelet using old plastic containers.

Pollution Solution
Monday, July 13
1:00–3:00 p.m.
$9 at Longway Planetarium
Be a part of the pollution solution while trying out easy ideas for reusing and repurposing everyday objects. Design and build a filter system to try to clean up dirty water and sort some common household items to get them ready for recycling.

Geology Rocks!
Tuesday, July 14
9:00 a.m.-12:00 p.m.
$12 at Longway Planetarium
Be a rock hound! Start your new rock collection while cleaning, sorting, and classifying your finds. See how rocks and landforms change over time while learning about weathering and erosion.

Sign up online at SloanLongway.org/Summer
For children entering 3rd–6th grades in the Fall

Mission Control
Thursday, July 16
1:00–4:00 p.m.
$12 at Longway Planetarium

Are you ready to explore air and space? Learn about life on the International Space Station and how astronauts have begun to grow plants in space. Investigate the solar system, moon, Earth’s atmosphere, and more in your out-of-this-world adventure. Planetarium show included.

Unraveling the Mysteries of the Human Body
Monday, July 27
9:00 a.m.-12:00 p.m.
$12 at Longway Planetarium

Take a closer look at what makes humans tick! Examine human anatomy and physiology, and discover the importance of refueling with proper nutrition.

Geo Art
Wednesday, July 29
1:00–4:00 p.m.
$12 at Longway Planetarium

Explore what happens when art and math collide? Create string art, explore angles, and create 3D shapes, all while learning about geometric designs.

Wonders of the World Camp
Monday, August 3–Wednesday, August 5
9:00 a.m.-12:00 p.m.
$65 at Longway Planetarium

Take a journey around the world. The Wonders of the World, both natural and machine-made, will be your inspiration for activities you create as you discover what makes earth an amazing planet.

Alpha Omega Girls Camp: Make It Move
Monday, June 22–Friday, June 26
9:00 a.m.-12:00 p.m.
$95 at Longway Planetarium

Longway Planetarium partners with some of Genesee County’s best teachers! Guest teachers from the Alpha Omega Chapter of Delta Kappa Gamma Society will be on-hand as girls explore motion with fun engineering challenges. Use a variety of art and craft materials to build a balloon buggy, build and fly a beautiful kite, and design and build cardboard automata.

Plan Life
Thursday, August 6
9:00 a.m.-12:00 p.m.
$12 at Longway Planetarium

How does your garden grow? Design your own beautiful pot to plant in. Explore life in the garden with a plant-themed scavenger hunt. Investigate the effects of geotropism, as your plants grow upward against gravity.

Turn the page for MORE FUN for kids entering 4th-6th grades

For more information, call (810) 237-3409
For children entering 3rd-6th grades in the Fall

**Voyage to Space**
**Thursday, June 25**
1:00–4:00 p.m.
$12 at Longway Planetarium

Take a trip through our Solar System and beyond while investigating planets, moons, and stars. Let’s watch a planetarium show, too!

**Green Thumb Gardeners**
**Monday, July 6**
1:00–4:00 p.m.
$15 at Longway Planetarium

Discover the basics of gardening! In a single afternoon, you’ll learn how to make a garden from start to finish. Find out what plants need to grow, and how to keep plants healthy and pest-free.

**Alpha Omega Girls Camp: Make It Move**
**Monday, June 22–Friday, June 26**
9:00 a.m.–12:00 p.m.
$95 at Longway Planetarium

Longway Planetarium partners with some of Genesee County’s best teachers! Guest teachers from the Alpha Omega Chapter of Delta Kappa Gamma Society will be on-hand as girls explore motion with fun engineering challenges. Use a variety of art and craft materials to build a balloon buggy, build and fly a beautiful kite, and design and build cardboard automata.

**Makers Challenge**
**Tuesday, June 30**
9:00 a.m.–12:00 p.m.
$15 at Longway Planetarium

Choose from a variety of DIY projects and hacks that invite you to imagine, think, design, and create. Think of new ways to use everyday materials while making projects to take home.

**Changing Earth**
**Wednesday, July 1**
9:00–11:00 a.m.
$9 at Longway Planetarium

The surface of the earth is constantly changing. Use stream tables to explore how rivers change their courses. Explore how earth processes change landforms and investigate the rock cycle.

**Take to the Sky**
**Wednesday, July 8**
1:00–4:00 p.m.
$12 at Longway Planetarium

Fly high as you explore air pressure and flight! Discover ways to stay afloat, create your own flying gadget, and find ways to make everyday items fly!

Sign up online at SloanLongway.org/Summer
STEM Exploration Camp  
**Monday, July 13–Friday, July 17**  
9:00 a.m.–12:00 p.m.  
$95 at Longway Planetarium

Kids will explore these exciting science, technology, engineering, and math topics:  
**Build-A-Zoo:** Draw an animal from the hat then design and build a zoo enclosure that provides all of the animal’s needs. Combine your enclosure with others to create a model zoo.  
**Energy Explorations:** Investigate light, sound, electricity, heat, and energy from the sun.  
**Crazy Contraptions:** Use art materials to design and build your own drawing machine. Choose from a variety of materials to build a contraption that will move a marble through obstacles.  
**Natural Hazards:** Earthquakes, volcanoes, and wild weather! Explore how earth processes impact humans and how technology helps us predict, prepare for, and recover from natural disasters.

Waves and Wrecks  
**Wednesday, July 22**  
9:00 a.m.–12:00 p.m.  
$12 at Longway Planetarium

Learn about the history of shipwrecks in the Great Lakes. Use the tools of scientists to explore and learn about artifacts found by divers. Discover what weather contributes to shipwrecks in the Great Lakes.

Tangled Teasers  
**Monday, July 20**  
9:00–11:00 a.m.  
$9 at Longway Planetarium

Are you ready for a challenge? Exercise your brain and your teamwork skills to crack codes, solve puzzles, and explain the unexplainable.

Journey to the Past Camp  
**Monday, July 27–Friday, July 31**  
1:00–4:00 p.m.  
$95 at Longway Planetarium

Travel back in time to become a pioneer during the 1800s in Michigan. Learn about children’s chores with hands-on activities like darning, air fresheners, and a tin punch. Learn about pioneer culture and their daily life through historical exploration. Enjoy a week of living in the past while having fun.

Chemistry Under Pressure  
**Monday, August 3**  
9:00 a.m.–12:00 p.m.  
$15 at Longway Planetarium

Explore force, pressure, and how chemicals can change! What chemicals will we have to mix together to explode a Ziploc bag? Can two liquid chemicals create a new solid substance? Explore physical and chemical changes!

Artistically Scientific  
**Wednesday, August 5**  
1:00–4:00 p.m.  
$12 at Longway Planetarium

Dabble in science and mix up a masterpiece. Find out how you can use science experiments to create one-of-a-kind works of art.
5TH-8TH GRADE CAMPS & WORKSHOPS
For children entering 5th-8th grades in the Fall  Multi-day camps are highlighted

5TH-8TH GRADE CAMPS & WORKSHOPS

- 2020 -
Summer
Camps & Workshops

5TH-8TH GRADE CAMPS & WORKSHOPS
For children entering 5th-8th grades in the Fall  Multi-day camps are highlighted

Living Green
Tuesday, June 23
1:00–4:00 p.m.
$12 at Longway Planetarium

Learn how to become a good steward of planet Earth. Discover different ways clean energy can power cities, explore ways you can use the three R's in your home, and create your own project using items found in nature.

Kitchen Chemistry
Monday, June 29
1:00–4:00 p.m.
$12 at Longway Planetarium

Mix it, measure it, make it! Use basic math and equations to work your way through recipes and create delicious treats.

Life in the Roman Empire
Thursday, July 9
1:00–4:00 p.m.
$12 at Longway Planetarium

Uncover unique treasures and fascinating stories from the Roman Empire. Explore the life of a Roman soldier, and how a catastrophic volcanic eruption changed lives forever.

Makers Challenge Camp
Monday, July 20–Wednesday, July 22
1:00–4:00 p.m.
$65 at Longway Planetarium

Enjoy a variety of DIY projects, design challenges, and opportunities for free building. Design a sail car and learn the basics of torch-fired enameling while making a piece of jewelry. We’ll provide the supplies; you provide the creativity!

Aerospace Engineering
Tuesday, July 28
9:00 a.m.–12:00 p.m.
$15 at Longway Planetarium

5-4-3-2-1… Blast off! Make at least three different types of rockets, and see how high your rocket can launch into the sky!

1310 E. Kearsley St. Flint, MI 48503  |  For more information, call (810) 237-3409  |  Sign up online at SloanLongway.org/Summer