

EDUCATOR'S GUIDE

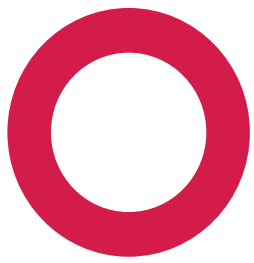
FIELD TRIPS | OUTREACH | STEAM PROGRAMS

2023 - 2024



HANDS ON!
children's museum

**13,000
SQUARE FEET
OF NEW
EXHIBITS!**



A world of **DISCOVERY** awaits you!

Hands On! Children's Museum is a place where creativity, imagination, and learning can take off, fly, and land in new and exciting places! All of our exhibits are kid-powered, allowing children to explore, discover, and learn by doing. The museum is a safe, inclusive, and welcoming environment featuring 13,000 square feet of learning experiences.



The museum offers a variety of interactive learning experiences that encourage children of all ages to become 21st century lifelong learners. Many of our exhibits and interactive STEAM programs are designed to complement the North Carolina Pre-K Foundations for Early Learning and Development and the North Carolina Standard Course of Study.

Please see pages 8-10 for more information.

What is a group?

Hands On! Children’s Museum offers field trip experiences to a variety of schools, preschools, child care centers, day camps, churches, and other community-based organizations. A group is **TEN (10)** or more paying visitors who make a reservation with the museum at least two weeks in advance of their desired museum visit.



READY TO BOOK?

Call 828-697-8333 x221
or e-mail info@handsonwnc.org

Planning Your Visit

Admission & Payment: The museum offers special admission rates (See table below.) for group visits. We accept cash, checks, and credit cards. Payment is due on the day of your visit. Membership cards may not be used with group rates.

Chaperones: The museum requires **ONE (1)** adult chaperone for every **FIVE (5)** students. Chaperones, teachers, and caregivers are expected to supervise their students at all times.

Lunch: Space for students to eat bagged lunch is available at a cost of **\$20 per 30 minute session.** (advance notice required)

Museum Store: The Museum offers a wide variety of educational toys and souvenirs for children of all ages. Groups are encouraged to include time within their planned visit to explore the museum store. Pre-packaged goodie bags are available for purchase upon request, call 828-697-8333 x221 for more information.

Curriculum Connection: Many of our interactive exhibits and dynamic STEAM programs complement North Carolina curriculum standards. Please see pages 8-10 for more information.

| FIELD TRIP RATES | Student | Teacher | Chaperone | Extra Chaperone |
|-----------------------------|--------------------|---------|-----------|-----------------|
| MUSEUM ADMISSION | \$7 | FREE | \$4 | \$10 |
| MUSEUM ADMISSION + PROGRAM | \$10 | FREE | \$4 | \$10 |
| STARLAB DIGITAL PLANETARIUM | \$150 FLAT RATE | FREE | FREE | FREE |

ASSEMBLY PROGRAMS

Our Assembly Programs include exciting science demonstrations that engage students and require audience participation. Program activities are designed to captivate the imagination and ignite wonder in children of all ages.

Deep Freeze! Grade Level: K - 5 | 30 Minutes

Explore the exciting world of Cryogenics, as we use Liquid Nitrogen (-320 F) to FREEZE ordinary objects, that will shatter and possibly explode! We'll also discuss the three states of matter during this highly visual program, which is great for youth of all ages.



Whiz, Bang, Boom! Grade Level: K - 5 | 30 Minutes

Explore the wonderful world of science as we use chemistry and physics to make things fly, shatter, and explode! Students will be amazed as we bring science concepts to life through a variety of fun and exciting demonstrations

Body Basics! Grade Level: Pre-K - 3 | 30 Minutes

Join us on a journey of discovery as we explore the functions of the Human Body! Participants will get a firsthand look at REAL Lungs as we discuss the functions of the respiratory system. We'll use a friendly skeleton model to learn about our bones, and the audience will help make an artificial "stomach" as we learn about the digestive system!



STARLAB DIGITAL PLANETARIUM

Discover the wonders of the night sky inside the StarLab Digital Planetarium. This unique inflatable experience will bring plenty of “oohs” and “ahs” as students observe the stars, moon, planets, and more!



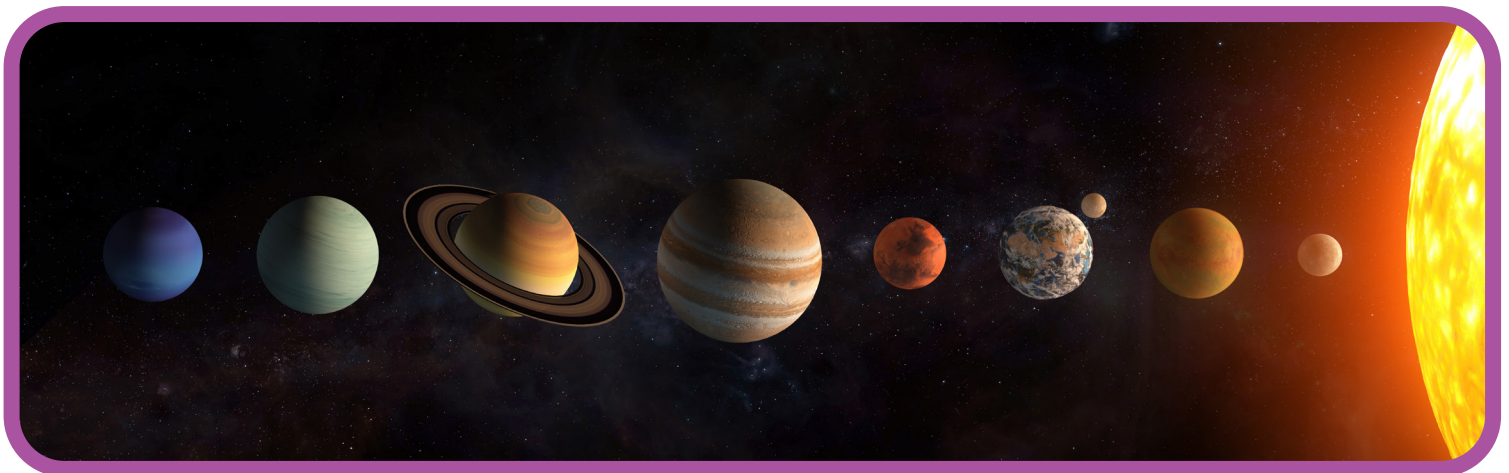
Add StarLab to your field trip experience for a flat rate of \$150



DID YOU KNOW?
Our Planetarium can travel to your school? Please see page 11 for more information!

Solar System Explorers! Grade Level: K - 5 | 40 Minutes

Discover the many wonders of outer space as we explore terrestrial and gas giant planets within our Solar System. We'll also learn about the phases of the moon, in addition to the differences between the day and night sky.



WORKSHOPS

Our Workshops are designed to complement your classroom studies by providing a unique and personal approach to learning. Students will participate in fun and engaging “hands-on” science activities.

Bubble Science! Grade Level: Pre-K - 2 | 30 Minutes

What are bubbles? Why do they float and pop? Join us as we explore the fascinating world of bubbles, as we use a variety of tools to make bubbles!



Color Magic! Grade Level: Pre-K - 2 | 30 Minutes

What are primary colors? Where do secondary colors come from? These questions and more will be answered as we use color mixing wells and pipettes to create our own primary and secondary colors.

Diary of a Worm! Grade Level: Pre-K - 2 | 30 Minutes

Join us for a “worm-tastic” adventure as we read *DIARY OF A WORM* by Doreen Cronin. After we learn about the functions of worms, participants will get to interact with REAL earth worms, in addition to creating polymer slime worms!



Life Cycle of a Butterfly Grade Level: Pre-K - 3 | 30 Minutes

What are butterflies? How do they help our planet? Together we'll discover how butterflies grow, in addition to creating our very own butterfly life cycle crafts!

WORKSHOPS

Our Workshops are designed to complement your classroom studies by providing a unique and personal approach to learning. Students will participate in fun and engaging “hands-on” science activities.

Magnificent Matter Grade Level: K - 5 | 30 Minutes

Let's go on a scientific adventure as we discover the three states of matter! Participants will work together in teams to create a solid, liquid, and gas. We'll even make our own Super Silly Putty to keep!



Plant Explorers Grade Level: K - 3 | 30 Minutes

How do plants grow and help our environment? Together we'll explore the fascinating world of plants as we use high-powered microscopes to observe the parts of a plant, in addition to making our very own terrariums.

Weather Watchers! Grade Level: K - 5 | 30 Minutes

Students will learn about cloud formation and the water cycle through fun and engaging participatory activities. Together we'll explore the differences between climate and weather, in addition to observing the formation of a tornado.



CURRICULUM CONNECTION

Many of our exhibits and programs are designed to complement the North Carolina Pre-K Foundations for Early Learning and Development and the North Carolina Standard Course of Study.

| Exhibits | NC Foundations | NC Standard Course of Study | | | | | |
|--------------------------------------|--|-----------------------------|-------------------------------|---|--------------------|---|-------------------------------|
| | Pre-K | K | 1 | 2 | 3 | 4 | 5 |
| Airways Adventure! | APL-1, APL-2, APL-3, APL-4, HPD-5, CD-15 | K.P.1.2 K.P.1.3 | 1.P.1.1 1.P.1.2 1.P.1.3 | | 3.P.1.1 3.P.1.2 | | |
| Build-A-Car Motor Speedway | APL-1, APL-2, APL-3, APL-4, HPD-5, CD-15 | | 1.P.1.1 1.P.1.2 1.P.1.3 | | 3.P.1.1 3.P.1.2 | | 5.P.1.1 5.P.1.2 5.P.1.4 |
| Dream It! Build It! | APL-1, APL-2, APL-3, APL-4, HPD-4, CD-5 | K.C.2.1 K.C.2.2 | | | | | |
| Farms to Market Apple Orchard | APL-1, APL-2, APL-3, APL-4, HPD-1, HPD-5, CD-5 | K.C.2.1 K.C.2.2 | | | | | |
| Fire Truck | APL-1, APL-2, APL-3, APL-4, HPD-5, HPD-8, CD-5 | | | | | | |
| Forces & Motion | APL-1, APL-2, APL-3, APL-4, HPD-5, CD-15 | K.P.1.2 K.P.1.3 | 1.P.1.1 1.P.1.2 1.P.1.3 | | 3.P.1.1 | | |
| Global Café Play Restaurant | APL-1, APL-2, APL-3, APL-4, HPD-1, HPD-5, CD-4, CD-5 | K.C.2.1 K.C.2.2 | 1.NPA.1.1 1.NPA.1.2 | | | | |
| Health Center | APL-1, APL-2, APL-3, APL-4, LDC-2, LDC-7, CD-4, CD-5, CD-9, CD-15 | K.C.2.1 K.C.2.2 | | | | | |
| Hydration Station | HPD-5, CD-15 | | | | | | |
| Ice-Cream Cart | APL-1, APL-2, APL-3, APL-4, HPD-1, CD-4, CD-5 | K.C.2.1 K.C.2.2 | | | | | |
| Little Co-Op Grocery Store | APL-1, APL-2, APL-3, APL-4, LDC-2, LDC-7, CD-4, CD-5, CD-9, CD-10, HPD-1 | K.C.2.1 K.C.2.2 | | | | | |

CURRICULUM CONNECTION

Many of our exhibits and programs are designed to complement the North Carolina Pre-K Foundations for Early Learning and Development and the North Carolina Standard Course of Study.

| Exhibits | NC Foundations | NC Standard Course of Study | | | | | |
|---|--|--|--|----------------------|---------------------|---------------------------------|--|
| | Pre-K | K | 1 | 2 | 3 | 4 | 5 |
| Little Tooth Dental Clinic | APL-1, APL-2, APL-3, APL-4, HPD-5, CD-4, CD-5 | K.C.2.1 K.C.2.2 | | | | | |
| MakerStudio | HPD-5, CD-4, CD-5 | K.V.1.1 K.V.1.2 K.V.1.3 K.V.1.4 | 1.V.1.2 1.V.2.3 1.V.3.3 | | | | |
| Mister Twister | APL-1, APL-2, APL-3, APL-4, HPD-5, CD-15 | K.E.1 | | 2.P.2.1 | 3.P.2.3 | | |
| Mt. Hands On! | APL-1, APL-2, APL-3, APL-4, HPD-4, CD-4, CD-5 | K.C.2.1 K.C.2.2 | | | 3.E.2.2 | | |
| Painter's Workshop | HPD-5, CD-4, CD-5 | K.V.2.2 K.V.2.3 K.V.3.1 K.V.3.2 | 1.V.1.2 1.V.2.3 1.V.3.3 | | | | |
| People's Museum and Walk of Fame | CD-8 | | | 2.C&G.1.4 2.H.1.1 | 3.H.1.1, 3.H.1.2 | 4.C&G.1.2 4.H.1.1 4.H.1.2 | 5.B.1.2, 5.C&G.2.1 5.G.1.2 5.H.1.1 5.H.1.2 |
| Pixel Pegs | APL-1, APL-2, APL-3, APL-4, HPD-5, CD-4, CD-5, CD-11 | | 1.V.1.2 | | | | |
| Puppet Theatre | APL-1, APL-2, APL-3, APL-4, HPD-5, CD-4, CD-5 | K.C.2.1 K.C.2.2 K.AE.1.2 | 1.C.1.2 1.C.2.1 1.AE.1.2 1.CU.2.1 | | | | |
| Reaction Contraption | APL-1, APL-2, APL-3, APL-4, HPD-5, CD-15 | | | | | | |
| ScienceWorks | APL-1, APL-2, APL-3, APL-4, HPD-5, CD-5, CD-15 | | | | | | |
| Star Theatre Play Stage | APL-1, APL-2, APL-3, APL-4, HPD-4, HPD-5, CD-4, CD-5 | K.C.2.1 K.C.2.2 K.AE.1.2 | 1.C.2.1 1.AE.1.2 1.CU.2.1 | | | | |

CURRICULUM CONNECTION

Many of our exhibits and programs are designed to complement the North Carolina Pre-K Foundations for Early Learning and Development and the North Carolina Standard Course of Study.

| Programs | NC Foundations | NC Standard Course of Study | | | | | |
|---------------------------------|------------------------|---------------------------------------|-------------------------------|--|--|--------------------|-------------------------------|
| | Pre-K | K | 1 | 2 | 3 | 4 | 5 |
| Body Basics! | | | | | 3.L.1.1 3.L.1.2 | 4.L.2.2 | 5.L.1.2 |
| Bubble Science | CD-14 CD-15 | | | | | | |
| Color Magic | CD-15 CD-5 | | | | | | |
| Deep Freeze! | CD-14 | K.P.2.1 | | 2.P.2.1 | 3.P.2.1 3.P.2.2 3.P.2.3 | | 5.P.3.2 |
| Diary of a Worm | CD-14 CD-5 | RI.K.4 RI.K.5 RI.K.6 | 1.L.1.1 1.L.1.2 | | | | |
| Lifecycle of a Butterfly | CD-14 CD-15 CD-5 | K.L.1.2 RI.K.4 RI.K.5 RI.K.6 | | 2.L.1.1 2.L.1.2 | | | |
| Magnificent Matter | | K.P.2.1 | | 2.P.2.1 | 3.P.2.1 3.P.2.2 3.P.2.3 | | |
| Plant Explorers | CD-14 | K.L.1.2 | 1.E.2.1 1.E.2.2 1.L.1.1 | | 3.L.2.1 3.L.2.2 3.L.2.3 3.L.2.4 | | |
| Solar System Explorers | CD-15 | | 1.E.1.1 1.E.1.2 | | 3.P.1.3 3.E.1.1 3.E.1.2 | 4.E.1.1 4.E.1.2 | |
| Weather Watchers | | K.E.1.1 K.E.1.2 K.E.1.3 | | 2.E.1.1 2.E.1.2 2.E.1.3 2.E.1.4 | | | 5.P.2.1 5.E.1.1 5.E.1.3 |
| Whiz, Bang, Boom! | | K.P.2.1 K.P.1.1 K.P.1.2 | 1.P.1.1 1.P.1.2 1.P.1.3 | | | 4.P.3.2 | |

SCIENCE ON WHEELS OUTREACH PROGRAM

Bring Hands On! Children's Museum to your school, library, or summer camp for an unforgettable and fun learning experience! The Digital StarLab Planetarium, in addition to our assembly programs and workshops can travel to your location!

Assembly Programs

Assembly Programs include dynamic science demonstrations that engage students and require audience participation.

\$200 Per Session + Mileage
up to 250 students
per session

Interactive Workshops

Workshops provide a unique and personal approach to learning, through active participation in multiple "hands-on" activities.

\$160 Per Session + Mileage
up to 25 students
per session

StarLab Digital Planetarium

StarLab is an inflatable and portable planetarium experience designed for students of all ages. StarLab requires a 25' x 25' indoor space with a 12' ceiling height and basic power access

\$400 Flat Rate + Mileage
25 students per session
up to FOUR (4) sessions

READY TO BOOK?

Call 828-697-8333 x221
or e-mail info@handsonwnc.org





HANDS ON!

children's museum

**EMPOWERS CHILDREN
TO LEARN THROUGH PLAY.**

THROUGH EXTRAORDINARY LEARNING
EXPERIENCES IN THE AREAS OF:



SCIENCE



TECHNOLOGY



ENGINEERING



ARTS



MATH



LITERACY



HISTORY