

# Traveling Science Program



## LET THE MARYLAND SCIENCE CENTER COME TO YOU!

The excitement of science happens not only in the classroom or in the lab – with the Maryland Science Center’s Traveling Science Program, it happens in the assembly hall, the auditorium, or the gymnasium.

Each year the Traveling Science Program’s vans travel the entire Mid-Atlantic region logging over 100,000 miles and bringing programming to over 70,000 students and adults.

**Starlab** portable planetarium programs offer a look at the night sky from inside your gymnasium. When class-sized groups enter our inflatable planetarium they marvel at stars, constellations, and planets without ever leaving the school.

**Classroom** programs offer solid science instruction and content through engaging, entertaining, and exhilarating experiments. Designed for smaller groups, these hands-on programs bring science excitement into your classroom.

**Assembly** programs turn the entire school on to science! These fast-paced, high-energy presentations designed to motivate and complement science curriculum are perfect for larger audiences.

Programs are available to students ranging from kindergarten through high school. Presented by trained Science Center educators, all of our programs are highlighted by exciting activities and audience participation.

## HOW DO I BRING THE TRAVELING SCIENCE PROGRAM TO MY SCHOOL?

Here is information that can help you plan a successful visit from the Maryland Science Center’s Traveling Science Program. Our Traveling Science vans fan out across the state and beyond beginning September 27, 2011.

### How do I arrange for the Traveling Science Program to visit my school?

Bookings are accepted on a first-come, first-served basis. Call us at 410-545-5968, or e-mail us at [outreach@marylandsciencecenter.org](mailto:outreach@marylandsciencecenter.org). We can answer your questions, offer scheduling suggestions, go over costs, and book the date you’ve selected for the Traveling Science Program to visit your school.

### When should I call the Traveling Science Program office?

Be sure to call during office hours, Monday through Friday, from 9:00am until 4:00pm. Certain months fill up quickly, so to be assured of the date and show of your choice, and call early.

### Are there any special guidelines?

Yes. To observe all safety requirements issued by professional associations and to assure a quality experience for everyone, we limit the audience number to 250 students per assembly show, 125 students per Dinosaur! show, and 30 students per Starlab and classroom program.

### How do Traveling Science shows align with the Maryland Voluntary State Curriculum?

Detailed information can be obtained from our Reservationist by phoning 410-545-5968 or by visiting our website at [www.marylandsciencecenter.org/programs/educators/tsp.html](http://www.marylandsciencecenter.org/programs/educators/tsp.html).

### A Note for Pre-Kindergarten Teachers:

The length and content of our programs are not suited for Pre-Kindergarten classes. We believe these young children learn best when given the opportunity to have playful interactions with objects and people. These interactions should occur in an environment that is meaningful in the context of the child’s development and experience. We encourage you to wait.



## STARLAB PROGRAMS

**Starlab Note:** The Starlab is an enclosed space that will only accommodate 30 students with their teacher. Please be advised that entrance into the Starlab is through a dimly-lit tunnel. Accommodations can be made for wheelchair-bound students. Due to the size of the Starlab dome, these programs are best suited for a gymnasium.

### Sunny Day, Starry Night

Grades: K-2 Capacity: 30 students  
Time: 50 minutes

Introduce your young scientists to astronomy. Learn why we have day and night, and how we know that the Earth moves. The concepts of Earth motion, stars, and constellations are explored in this interactive and engaging look at space.

### Seasonal Stars of the Mid-Atlantic

Grades: 2-6 Capacity: 30 students  
Time: 50 minutes

This seasonally specific program highlights the stars, the Moon, and other astronomical bodies visible in the Mid-Atlantic sky. Learn why different constellations appear at different times of year and what is visible in the sky tonight.



## CLASSROOM PROGRAMS

### Slime Time

Grades: K-2 Capacity: 30 students

Time: 50 minutes

Who says science can't be messy? Students will engage in facilitated and self-guided observation of the states of matter while creating their own slime. This is a thrilling introduction to the process of scientific investigation.

### Waves of Change: The Science of Saving the Bay

Grades: 3-5 Capacity: 30 students

Time: 50 minutes

The Chesapeake Bay is a major natural resource for those living in the Mid-Atlantic region. Using models and engaging activities, students explore

the past pollution of the bay and learn how their own actions can influence the future of the largest estuary in the United States.

### Brainstorm in a Bucket

Grades: 4-8 Capacity: 30 students

Time: 50 minutes

Uncover the potential for creativity in science while devising a solution to a physical problem, using only imagination and items found in a bucket. Brainstorming, design, and teamwork are all emphasized in this lively, group-focused experience.

### It's Cool In Your School

Grades: 7-12 Capacity: 30 students

Time: 50 minutes

What happens to nitrogen gas when it is chilled to 320 degrees below zero Fahrenheit? Liquid nitrogen is the dramatic substance that allows investigation of the super cold. While observing the properties of cryogenic materials, students explore how a variety of industries make use of them.



## ASSEMBLY PROGRAMS

### Dinosaur!

Grades: K-2 Capacity: 125 students

Time: 35 minutes

How do scientists know that dinosaurs ever roamed the Earth? Puppets, fossils, and large interactive props demonstrate to younger students how rocks, bones, and tracks help scientists search for answers about these ancient reptiles.

### Science To Amaze & Intrigue

Grades: K-5 Capacity: 250 students

Time: 60 minutes

Witness a potpourri of chemistry, biology, and physics. Find out what sound looks like and what happens to matter at 320 degrees below zero. Engaging demonstrations on sound, human senses, chemical reactions, cold, heat, and combustion are guaranteed to both amaze and intrigue.

### Brain Benders

Grades: K-5 Capacity: 250 students

Time: 60 minutes

Can you walk through a piece of paper? Are you stronger than air? It's true that some things that may look like magic are actually science. Observe mind-boggling demonstrations with unexpected outcomes. Students will be surprised as they start looking at everyday events through scientific eyes.

### Play Ball: Super Sports Science

Grades: K-5 Capacity: 250 students

Time: 60 minutes

Science and sports team up to explore the biology, physics, and chemistry behind athletics.

Discover how a football is like a figure skater and uncover why each sport has unique equipment that utilizes leverage and compression to its advantage. Reveal the science in sports while putting real sports equipment to the test.

### The Wright Stuff

Grades: K-5 Capacity: 250 students

Time: 60 minutes

From the hot air balloon to the rocket, witness the ways in which scientific inventions have given us the ability to fly. Learn about the scientific principles used to enable flight, including the properties of air, lift, weight, thrust, and drag.

### What's the Matter? Chemistry with Fizz, Foam & Flash

Grades: K-8 Capacity: 250 students

Time: 60 minutes

How can you tell when chemistry is happening? What's the difference between matter and energy? This show explores the states of matter, physical changes, and chemical reactions through loud, bright, and visually thrilling experiments. Watch as flash dazzles, foam oozes, and fizz flows.

### Arcs and Sparks

Grades: 3-8 Capacity: 250 students

Time: 60 minutes

How is electricity created and controlled? Learn the shocking truth about the nature of insulators, conductors, direct current, and alternating current.

Construct a model of how electrons move through a wire, take part in a hair-raising experience with a 125,000-volt electrostatic generator, and learn about the importance of using electricity safely.

### The Light Fantastic

Grades: 4-8 Capacity: 250 students

Time: 60 minutes


From fire to lasers, explore the evolution of light and observe its ability to bounce and bend. Travel along the electromagnetic spectrum, and witness the spectacular properties of ultraviolet, visible, and infrared light while discovering how it is produced and used. Note: The Traveling Science staff must be able to control the lighting of the performance space, including rendering complete darkness.

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Phone a reservationist 410.545.5968

# Traveling Science & Field Trip Program Rates

 **MARYLAND SCHOOL GROUPS** The Maryland Science Center welcomes all MARYLAND Students and Chaperones reserving as a group to its exhibit halls FREE of charge. Plan your visit early and make your reservation today.



## MARYLAND SCHOOL GROUPS ONLY PRICES VALID WEEKDAYS ONLY October 4-June 15 (excluding major holidays)

|  | Basic Admission (Exhibits Only) | Enrichment Experiences and Observatory                 | Davis Planetarium  | St. John Properties IMAX Theater                           | Kids Room  | Night Under The Stars   |
|--|---------------------------------|--|--|--|--|---|
| ALL MARYLAND Students, Teachers & Chaperones | <b>FREE!</b>                    | Students: \$5.00<br>Teachers: FREE<br>Chaperones: FREE | Students: \$5.50<br>Teachers: \$5.50<br>Chaperones: \$5.50 | Students: \$6.75<br>Teachers: \$6.75<br>Chaperones: \$6.75 | Students: \$1.50<br>Teachers: FREE<br>Chaperones: FREE | Students: \$10.00<br>Teachers: \$10.00<br>Chaperones: \$10.00 |

Please note all prices are per program per person.



## SCHOOL GROUPS OUTSIDE OF MARYLAND PRICES VALID WEEKDAYS ONLY October 4-June 15 (excluding major holidays)

|  | Basic Admission Exhibits Only                            | Enrichment Experiences and Observatory                 | Davis Planetarium  | St. John Properties IMAX Theater                           | Kids Room  | Night Under The Stars   |
|--|--|--|--|--|--|---|
| ALL NON MARYLAND Students, Teachers & Chaperones | Students: \$7.50<br>Teachers: FREE<br>Chaperones: \$3.00 | Students: \$5.00<br>Teachers: FREE<br>Chaperones: FREE | Students: \$5.50<br>Teachers: \$5.50<br>Chaperones: \$5.50 | Students: \$6.75<br>Teachers: \$6.75<br>Chaperones: \$6.75 | Students: \$1.50<br>Teachers: FREE<br>Chaperones: FREE | Students: \$10.00<br>Teachers: \$10.00<br>Chaperones: \$10.00 |

Please note all prices are per program per person.



Phone a reservationist 410.545.5929



## TRAVELING SCIENCE PROGRAM PRICING

|                             |                                 |                                   |                                  |
|-----------------------------|---------------------------------|-----------------------------------|----------------------------------|
| Assembly Programs           | Up to 250 participants<br>\$575 | 251 to 500 participants<br>\$1050 | -                                |
| STARLAB Programs            | Up to 120 participants<br>\$575 | 121 to 240 participants<br>\$1050 | -                                |
| Classroom Programs          | Up to 90 participants<br>\$435  | 91 to 120 participants<br>\$535   | 121 to 150 participants<br>\$635 |
| DINOSAUR! Assembly Programs | Up to 125 participants<br>\$525 | 126-250 participants<br>\$575     | -                                |

All pricing is based on same day/same title, an additional fee is required for same day/different titles. Travel time to a location of more than 2.5 hours will be charged a \$180 overnight fee. Evening and Saturday presentations are an additional \$70.



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