



222 Market St. Harrisburg, PA 17101

# 2016 – 2017 FIELD TRIP PLANNER & EDUCATORS' GUIDE



Contact our Group Sales Coordinator today at [groupsales@whitakercenter.org](mailto:groupsales@whitakercenter.org) to begin planning your visit!

Whitaker Center for Science and the Arts is Central Pennsylvania's most engaging destination for students of all ages. Whether your class is looking to explore interactive STEM-based exhibits housed on three floors inside Harsco Science Center, take in an entertaining documentary film at Select Medical Digital Cinema, get hands-on in one of our Discovery Labs or take part in Surgery LIVE!, Whitaker Center will inspire your students to fall in love with science and technology.



Planning your trip is easy, and we have a host of different programs\* that will complement your in-class lessons with standards-based activities that get your students involved in learning and excited about the process.



### Explore the Possibilities with:

- A pricing structure that allows for more savings when you visit early in the school year
- *Dream Big: Engineering Wonders of the World*; a NEW documentary debuting February 2017 in Select Medical Digital Cinema
- Surgery LIVE! procedures for 2016/2017
- Whitaker Center's Educational Outreach Fund to help schools with underserved populations make their visit a reality
- Discounted science-based souvenir bags from our gift shop



\* For an expansive list of program details, operating information and further assistance in planning your field trip, please visit [whitakercenter.org](http://whitakercenter.org).

### Pricing

Create the perfect field trip for your class! You decide how to use the programs we offer by selecting those that most excite your students and align with your classroom goals.

	1 Event Visit	2 Event Visit	3 Event Visit
<b>All Visitors</b>			
Sept 1 - Mar 31	\$8.00	\$12.00	\$15.00
Apr 1 - Jun 10	\$9.00★	\$14.00	\$18.00
Jun 11 - Sept 2	\$8.00	\$12.00	\$15.00

### KidsPlace\* Only Visit

All Ages - \$5.00

Located on the top floor of the Harsco Science Center, KidsPlace offers crawling-climbing space for toddlers with an adjoining aquarium and multi-level waterworks. Young minds will be encouraged to imagine stories with their favorite characters on Storybook Stage, a theater that includes lighting effects, costumes and

\* KidsPlace only visits are available to preschool and kindergarten groups. Maximum age limit for children to access this area is 5 years old. We require that teachers and chaperones follow our 10:1 student to adult ratio.

Preschool and daycare centers will love Little Learner Wednesdays



Visit [whitakercenter.org](http://whitakercenter.org) for more details on this program.

### How To Plan Your Trip

1. Read over this guide or visit us online at [whitakercenter.org/field-trips](http://whitakercenter.org/field-trips) for a full list of programs and identify what elements you would like to include in your visit.
2. Contact our Group Sales Coordinator at 717-724-3862 or at [groupsales@whitakercenter.org](mailto:groupsales@whitakercenter.org). Please have a realistic head count for your group size so that we can best accommodate you and other school groups.
3. One month before your scheduled visit, we will need a confirmed number for your group and payment in full for your visit. Due to increased program demand we can no longer provide refunds for no-shows on the day of your visit. We will do our best to accommodate additional guests, but cannot guarantee they will have the same access as the rest of your group if programs are at capacity.

### Whitaker Center Educational Outreach Fund

We want to make an educational trip to Whitaker Center a reality for underserved schools. Thanks to the generosity of individual and corporate donors, the Whitaker Center Educational Outreach Fund can help with the cost of a field trip to Whitaker Center and cover a large portion of admission fees for students and chaperones to the Harsco Science Center, Discovery Labs, and documentary films in the Select Medical Digital Cinema. Contact us at 717-724-3862 or [groupsales@whitakercenter.org](mailto:groupsales@whitakercenter.org) for more information.

Many thanks to the following generous donors to the Educational Outreach Fund: The Donald B. and Dorothy L. Stabler Foundation, The Brody Science Fund for Youth, The Carol L. Mickelsen Fund of the Foundation for Enhancing Communities, The Joan S. and Joseph K. Goldsmith Fund, Phoenix Contact and Très Bonne Année Wine and Gala Auction Fund-a-Need Donors.

# Harsco Science Center

With three floors of imaginative and engaging exhibits, the Science Center offers students an irresistible invitation to explore the sciences, perform experiments, and discover more about the world around them. From KidsPlace — a kid-sized cityscape for children age 5 and under — to Forces of Nature — a mind-blowing examination of how weather, earthquakes, and erosion affect Planet Earth — the Science Center offers something for curious minds of all ages. Live science demonstrations, programs and fascinating exhibits about physical, biological and life sciences all combine to make a visit to the Science Center an extraordinary educational experience cleverly disguised as a whole lot of fun.

Whitaker Center programs are aligned with the Pennsylvania Academic Standards and program descriptions include recommended grade levels where appropriate.



## Wonders Souvenir Bag

Extend the learning and take the hassle out of kids shopping on the day of their visit! When booking your visit, choose between two science-based souvenir bags valued at \$5 and \$10 each. For more information, please contact our Group Sales Coordinator at 717-724-3862 or [groupsales@whitakercenter.org](mailto:groupsales@whitakercenter.org).

## Science Center Learning Worlds★

### KidsPlace

This learning area is designed for the youngest explorers and their favorite grown-ups. A cityscape theme offers an extraordinary collection of friendly exhibits and fun activities for young children ages 5 and under and their caregivers.

### Carnival of Health

Step right up and explore a 2,200 square-foot circus-themed gallery, where guests learn how to make healthy lifestyle choices. Be amazed by the wonders of the human body in this fun filled, hands-on, minds-on, bodies-on exhibit gallery!

*Carnival of Health is underwritten by Capital BlueCross.*



### Forces of Nature

This dramatic exhibition features physical “phenomenon-based” exhibits, including a giant ‘touchable’ tornado, the hurricane chamber, earthquake table and Science On a Sphere®, all of which encourage visitors to discover (or rediscover) broadly-applicable scientific ideas.

### Move It!

Get connected with the concepts of engineering and the processes that foster innovation and improvement. Explore principles of friction, velocity and inertia in a fun and imaginative way in your role as an action-oriented “problem-solver.” Will your design for a plane, a race car, or a wind turbine be the next portal to the future?



### Backstage Studio

This 1,800 square-foot gallery reveals the science and technology behind movies, TV, music and theatre. Students can make their own animated videos, create movie sound effects, play ‘intelligent’ musical instruments, and see how different colors of light create different moods. Backstage Studio is underwritten by The Alexander Grass Foundation.



**Backstage Studio**  
Funded by THE ALEXANDER GRASS FOUNDATION

4

## Select Medical Digital Cinema

You haven't seen a movie until you've experienced it on our giant screen! The screen itself is over four stories high and 70 feet wide. The powerful 6-channel, 16,000-watt surround sound system makes every film sound as big as it looks. Each day, we have at least two different documentary films scheduled with the capability to do some special programming at the request of teachers with groups of 50 or more. Many films offer an online teacher's guide which includes a synopsis of the film, discussion topics, and pre- and post-screening activity ideas.

### NEW!

### Dream Big: Engineering Marvels of the World (February - May)

All around the world, engineers are pushing the limits of ingenuity and innovation in unexpected, imaginative and amazing ways. Dream Big will take viewers on a journey of discovery from the world's tallest building to a bridge higher than the clouds and a solar car race across Australia. Along the way the audience will witness how today's engineers are shaping the world of tomorrow.

Running time: 40 minutes.



### National Parks Adventure 3D (September - January)

Narrated by Academy Award® winner Robert Redford, National Parks Adventure takes audiences on the ultimate off-trail adventure into the nation's awe-inspiring great outdoors and untamed wilderness. Immersive 3D cinematography takes viewers soaring over red rock canyons, hurtling up craggy mountain peaks and into other-worldly realms found within America's most legendary outdoor playgrounds, including Yellowstone, Glacier National Park, Yosemite, and Arches. Running Time: 43 min.



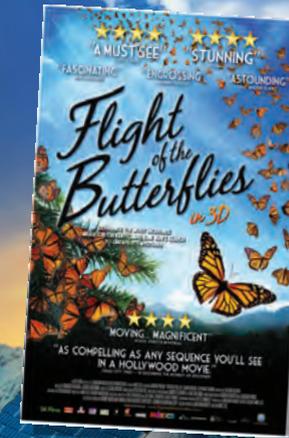
### Journey To Space 3D (September - May)

NASA's next era will be its greatest yet. That is the clear "roadmap" painted by *Journey To Space*. By using extensive interviews with astronauts Chris Ferguson (Commander of the final shuttle mission) and Serena Auñón (a new astronaut chosen for future flights), as well as a brilliant narration by film and television legend Sir Patrick Stewart, *Journey To Space* gives a sweeping overview of past space accomplishments, current activities and future plans. Strap in for the next giant leap. Next stop...Mars! Running Time: 40 min.



### Flight of the Butterflies 3D (September - May)

Based on the true story of the discovery of the monarch's overwintering sites in Mexico, *Flight of the Butterflies 3D* gets you up close and personal with butterflies thanks to MRI & Micro CT scans of metamorphosis of a butterfly inside a chrysalis. From Canada to the U.S. to Mexico, experience the flight of butterflies like never seen before! Running Time: Approx. 44 min.



## Teachers with Groups of 50+

For large groups, we are happy to accommodate special screenings for documentaries in our film library that are not being shown to the public. Special screenings take place most days at 10:00am with advanced booking and a confirmed count of 50 or more in the group. Depending on interest, your group may not be the only group in the Digital Cinema for this screening. Call our Group Sales Coordinator to inquire about film subjects and availability.

### Library Films Available for 2016/2017 Upon Request

- Forces of Nature
- Grand Canyon Adventure 3D
- Jerusalem 3D
- Lewis & Clark: Great Journey West
- National Parks Adventure 3D
- Tornado Alley 3D
- Watermelon Magic

5

# Discovery Labs

Don't miss this opportunity to allow your students to participate in an in-depth, hands-on workshop. Our inquiry-based labs extend your Whitaker Center experience, focus on a wide range of age-appropriate topics, and support Pennsylvania Academic Standards.



For descriptions and academic standards covered in each Discovery Lab, visit [whitakercenter.org](http://whitakercenter.org)

Choose from the following topics according to your students' grade level

## Pre-K and Kindergarten

Capacity: 24 students per session  
Length: 30 minutes

The Sound of Science  
It's a Worm's World  
Sort It Out

## Grades 1 and 2

Capacity: 24 students per session  
Length: 45 minutes

Bug Me Not  
Matter: It's about Change  
Seeds and Such  
Playground Physics  
Windows on Weather

## Grades 3 - 5

Capacity: 36 students per session  
Length: 45 minutes

Bridging the Gaps  
Chemistry Concoctions  
Circuit Circus  
Forensic Frenzy  
It's Probable  
Pollution Solutions

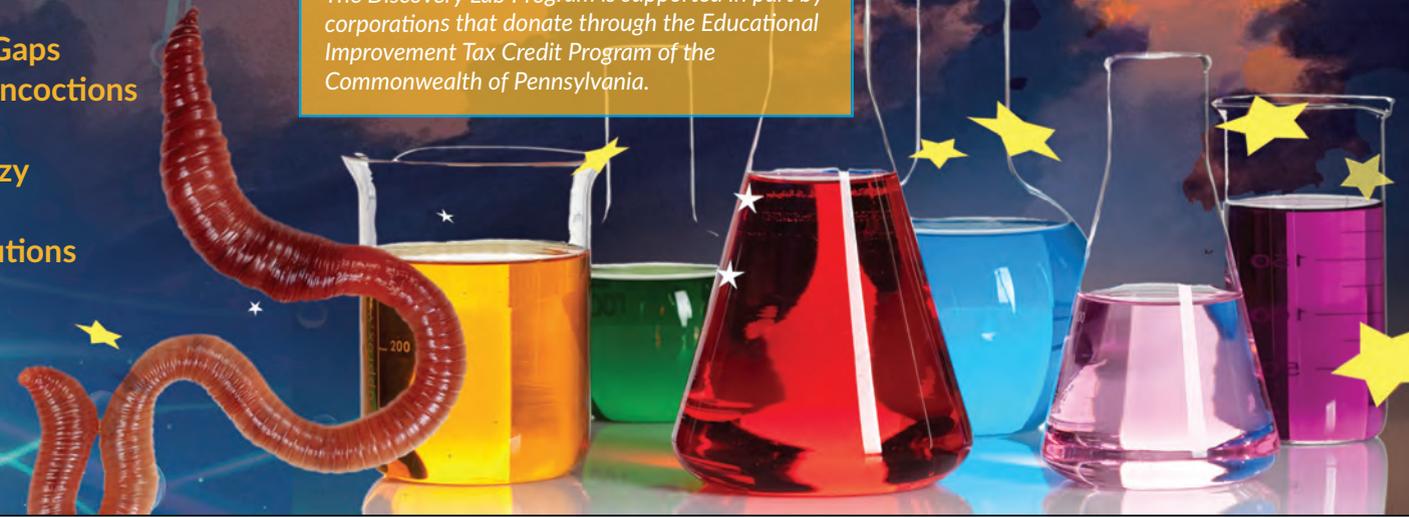
## Grades 6 - 8

Capacity: 36 students per session  
Length: 45 minutes

Disease Detectives  
Tantalizing Tessellations  
Trembles & Quakes  
Whooo's for Dinner



The Discovery Lab Program is supported in part by corporations that donate through the Educational Improvement Tax Credit Program of the Commonwealth of Pennsylvania.



8

Whitaker Center for Science and the Arts and Penn State Milton S. Hershey Medical Center have created an innovative partnership designed to stimulate the interest of high school students in careers in health care. With the support of Highmark BlueShield, Surgery Live! at Whitaker Center is connecting students to the operating rooms of Hershey Medical Center through interactive high-definition videoconferencing technology.



Students see and hear the surgical teams in real time and are able to ask questions at appropriate points during surgical procedures. In addition to explaining the operation as it happens, members of the surgical team describe their responsibilities and careers in health care, making those careers more interesting and accessible. Post-visit educational activities maximize the impact of each Surgery Live! session.



“We have seen other surgeries at the Whitaker Center and this doctor explained the procedure very well to the students - he was very detailed, yet they could understand the information. Very well done! We will definitely be back! Love this program!”  
 - Teacher, North Schuylkill Sr. High School

**Surgery Live! Details At-a-Glance:**

Capacity: 100 people  
 Program duration: 2.5 hours (not including a visit to the Science Center or Digital Cinema)

**Nov 2016 - May 2017 Procedures\***

- Endoscopic Gastric Sleeve
- Laparoscopic Cholecystectomy
- Urology
- Hysterectomy

\* Surgical procedures subject to change.

Please visit [whitakercenter.org](http://whitakercenter.org) or call our Group Sales Coordinator to confirm dates and procedures before you book your visit.

Surgery Live! Admission	
Students	\$24
Adult Chaperones	\$12
Educational Outreach Funds may be applied for Surgery Live! visits.	

Due to limited capacity and increased demand for this program, we require full payment of your reservation one month in advance of your visit. Refunds will not be issued for no-shows.



**More Ways to Discover**

**Whitaker on Wheels**  
**WOW...Science to Go**

Whitaker On Wheels (WOW) is our traveling troupe of professional presenters that takes science on the road and into your school. This outreach program offers presentations that can serve as an exciting pre- or post-visit extension to your Whitaker Center visit or as a great educational experience on their own. For an extensive list of programs by grade level, visit [whitakercenter.org](http://whitakercenter.org).

Audience: up to 75  
 Length: 30 minutes  
 Cost: First presentation \$325, Second Presentation (same date, title, location) \$200

**Scheduling Information**

WOW programming is available to be scheduled from November through March on a first-come, first-served basis. Discounts are available for multiple bookings on the same day at the same location. School districts participating in Whitaker Center's School District Partnership Contract (SDPC) Program receive a 10% discount on WOW presentations. Assistance is also available for schools that participate in the Educational Outreach Fund.

**NEED MORE INFO?**  
 A full list of programs, topics, education standards, dates and times can be viewed at [whitakercenter.org](http://whitakercenter.org)  
 Contact our Group Sales Coordinator today to begin planning your visit!  
[groupsales@whitakercenter.org](mailto:groupsales@whitakercenter.org) or  
 717-724-3862.

