

DANVILLE SCIENCE CENTER



Field Trip Guide

2021-2022



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Welcome to the Danville Science Center!

This might be the most exciting field trip guide ever! No, we aren’t blowing things out of proportion.

Not only did we have to skip last year so we’re excited to be back, but the Science Center also has all new exhibits to share with your students!

We have reimagined the entire Science Center with new exhibit galleries to help spark interest in science, encourage curious minds to seek answers, and connect classroom lessons to the amazing world around us. They are all yours to discover.

On top of our new, world-class exhibits, we have a wealth of Live Science Programs and Dome features to help your students wrap their arms around the wonders of STEM.

In this guide, you’ll find options for your next field trip outlined by grade level. When you’re ready to book, give us a call at 434.791.5160 ext. 203.

Don’t forget that group leaders planning a visit are always admitted free, so join us early to explore our exhibit galleries before your field trip. When you visit, be sure to ask about our complimentary educator memberships.

Visit our (brand new) website, dsc.smv.org, or find us on Facebook and Instagram for updates and late-breaking information about Science Center programs and events.

We look forward to your visit!

Bringing the STEM to You!

Programs for Outreach

We bring the excitement of the Science Center to you! Throughout this guide, you will see programs noted with OUTREACH. Those programs are available to be presented offsite in the classroom. Make your reservation today!

STARLAB Portable Planetarium

The STARLAB is available as one of the Science Center’s outreach programs. Discover the relationship between the Sun, Earth, and Moon while exploring the planets. Explore current and upcoming space missions. Learn about repeating cycles and patterns that occur on Earth and the reasons behind those patterns as well as why we experience the change in seasons. The presentations correspond to Virginia SOLS K.10, 1.6, 1.7, 3.8, 3.11, 4.7 and 4.8.

Outreach programs are \$150 for the first program each day. Each additional program on the same day is \$75. Up to five programs can be scheduled on one day at your school. Programs are designed to serve up to 25 students per session. A mileage fee will apply for travel greater than 35 miles one way. Call 434.791.5160, ext. 201 or email our Education Coordinator at bbuchanan@smv.org.

Pre-k & K



LIVE SCIENCE

DOME

EXHIBITS

These budding scientists are constantly investigating and absorbing the world around them! To boost their innate curiosity, these recommended programs explore basic scientific concepts and skills.



RECOMMENDED ITINERARY

Each program is approximately 30 minutes and can accommodate up to 30 guests. Programs with **OUTREACH** are available to be presented offsite in the classroom.



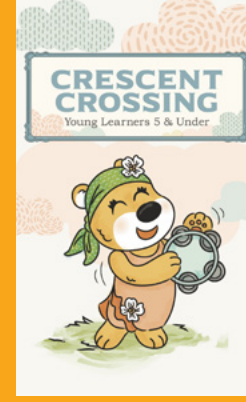
Animal Adaptations **OUTREACH**

Animals have basic needs, as well as physical and behavioral characteristics that help them survive in a variety of climates. Explore the diversity of organisms and how they adapt to their environments.



Zula Patrol: Down to Earth

While on a fossil hunting expedition, the Zula Patrol turns up evidence that the villainous Deliria Delight has been traveling back in time to Earth to illegally dump her company's toxic trash. The Zula patrollers must catch her before her actions cause catastrophic consequences. Our heroes learn all about the development of the Earth and the life forms that call it home. Includes a short live sky planetarium show.



Crescent Crossing

Connect young students to hands-on opportunities to discover concepts of the importance of science, technology, engineering, and math fundamentals, such as creativity, problem solving, and cause and effect in this visually stimulating train-themed exhibit.

OTHER OPTIONS

Floating Boats

Some things in our environment sink and others float. Investigate these concepts and discover what things will and will not float. Learn how to make a boat that will float heavy objects. How much weight will it take to sink your boat?

Build a Butterfly **OUTREACH**

Investigate these beauties of the insect world. From metamorphosis to food sources to symmetry, these animals are a wonderful starting point for understanding life cycles, camouflage, and interdependency.

Super Senses **OUTREACH**

Have you ever followed your nose to find freshly baked cookies, investigated a strange sound or shaken a package to guess what was inside? Learn about your five senses as we trick our eyes and stump our sniffers with interactive games.

Sow It – Grow It **OUTREACH**

Plants are producers, with seeds, flowers, roots, stems, and leaves, which are a must for animals and people on Earth. Students sow their own seeds of learning with hands-on explorations of common plants.



Earth, Moon & Sun

Earth, Moon & Sun explores the relationship among those cosmic bodies with the help of Coyote, an amusing character adapted from Native American oral traditions who has many misconceptions about our home planet. His confusion about the universe makes viewers think about how the Earth, Moon, and Sun work together as a system. Includes a short live sky planetarium show.



Zula Patrol: Under the Weather*

The stalwart heroes of the Zula Patrol are on an expedition collecting samples of weather for research. When the Zula gang inadvertently hurts their loyal pet Gorga's feelings, he decides to leave Zula. Villain Dark Truder then tricks Gorga into helping with his latest scheme. The Zula Patrollers find out and go after him—in the process learning all about weather. Includes a short live sky planetarium show.

*Available through Feb. 10



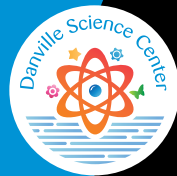
Butterfly Station & Garden

Tour our Butterfly Station and Garden to view some of nature's most beautiful creatures! Find out which type of caterpillar eats certain plants, learn the best methods to attract butterflies, and get inspired to create your own butterfly garden. Available mid-April through mid-October (weather dependent).



©SEAN DEWITT PHOTOGRAPHY

Grade 1



First graders are adventurers and explorers! To unlock the secrets of science, our recommended programs explore fundamental concepts to develop an understanding of a broad range of animals, plants, and their life needs.

LIVE SCIENCE

RECOMMENDED ITINERARY

Each program is approximately 30 minutes and can accommodate up to 30 guests. Programs with **OUTREACH** are available to be presented offsite in the classroom.



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DOME



Go!

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OTHER OPTIONS

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Investigate these beauties of the insect world. From metamorphosis to food sources to symmetry, these animals are a wonderful starting point for understanding life cycles, camouflage, and interdependency.

Good Vibrations **OUTREACH**

What is sound? How does sound travel and how is it measured? Make waves while learning all the news about noise.

Sow It – Grow It **OUTREACH**

Plants are producers, with seeds, flowers, roots, stems, and leaves, which are a must for animals and people on Earth. Students sow their own seeds of learning with hands-on explorations of common plants.



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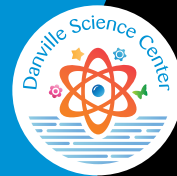


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Grade 2

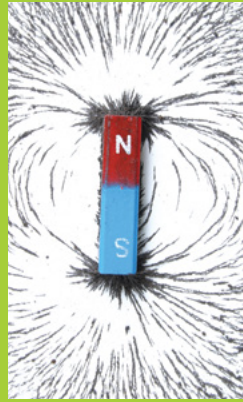


Second graders are constantly questioning their world! To help them understand the world around them, our recommended programs feature magnets, life cycles, and the seasons.

LIVE SCIENCE

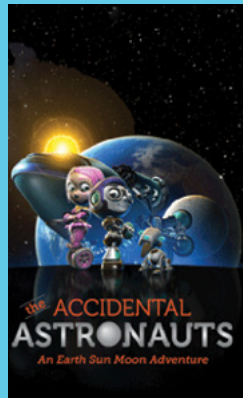
RECOMMENDED ITINERARY

Each program is approximately 30 minutes and can accommodate up to 30 guests. Programs with **OUTREACH** are available to be presented offsite in the classroom.



Opposites Attract **OUTREACH**

Discover the effects of magnets on objects while exploring attraction, repulsion, and magnetic poles. Learn how magnets are used in daily life and investigate the interactions of magnets and their effects on everyday objects.



Accidental Astronauts

Follow the adventures of Cy and Annie and their dog Armstrong as they embark on an unexpected journey into space! Explore the Earth, Sun, and Moon system with a wise-cracking starship computer. Follow an asteroid crash into the Moon. Get up close and personal with a solar storm and gain a new appreciation of our home. Includes a short live sky planetarium show.



Go

Go! highlights the intersection between the physics of machines and the biology of the human body. Test your strength with a giant lever to lift weights (or other guests); race against the clock to test reaction time; act like a hamster and turn mechanical energy into electric energy on the tread wheel; or race a migrating monarch, Usain Bolt, or a black bear on our sprint track; and more. Collaborate, compete, and get ready to Go!

OTHER OPTIONS

Animal Adaptations **OUTREACH**

Animals have basic needs, as well as physical and behavioral characteristics that help them survive in a variety of climates. Explore the diversity of organisms and how they adapt to their environments.

Build a Butterfly **OUTREACH**

Investigate these beauties of the insect world. From metamorphosis to food sources to symmetry, these animals are a wonderful starting point for understanding life cycles, camouflage, and interdependency.

Fossil Finds **OUTREACH**

Learn Earth history through this fossil investigation. Dig into coastal plain sediments to discover diversity in ancient ocean environments.

Sow It – Grow It **OUTREACH**

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Earth, Moon & Sun

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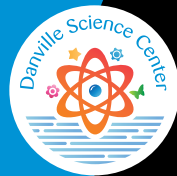
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Grade 3



Third graders become science explorers by conducting investigations. To help them unearth patterns and forces in the world around them, our recommended programs delve into energy transformations and soil science.

LIVE SCIENCE

DOME

EXHIBITS

RECOMMENDED ITINERARY

Each program is approximately 30 minutes and can accommodate up to 30 guests. Programs with **OUTREACH** are available to be presented offsite in the classroom.



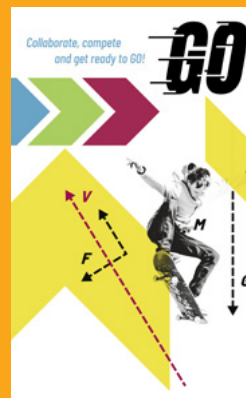
Simple Machines

Can simple machines make work easier? Discover how levers, pulleys, and inclined planes give us a helping hand through mechanical advantage.



Earth, Moon & Sun

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Go

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OTHER OPTIONS

Simply Soil **OUTREACH**

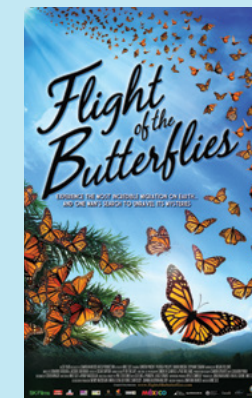
What is the difference between soil and dirt? Separate soil into its four different sized particles and learn each component's role in supporting plant life.

The Web of Life **OUTREACH**

Visualize the dynamics of the food web. Find out how energy travels from the Sun to green plants to bugs to birds and beyond.

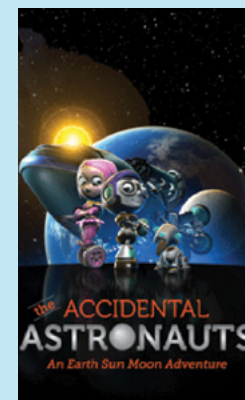
Water, Water Everywhere

Observe the influence of pollution on the quality of water. Watch a demonstration of the water cycle and how this process leads to cleaner drinking water. Discover how different soil types aid in the filtration of water.



Flight of the Butterflies

Migrate with hundreds of millions of Monarch butterflies across North America! Immerse yourself in this compelling adventure as you discover a super generation of butterflies as they travel to a new destination. Experience firsthand the beauty of the migration cycle of butterflies spanning not only thousands of miles but several generations!



Accidental Astronauts

Follow the adventures of Cy and Annie and their dog Armstrong as they embark on an unexpected journey into space! Explore the Earth, Sun, and Moon system with a wise-cracking starship computer. Follow an asteroid crash into the Moon. Get up close and personal with a solar storm and gain a new appreciation of our home. Includes a short live sky planetarium show.



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Grade 4



Fourth graders uncover the mysteries of electricity as they dig into basic science principles. To help them explore Earth and beyond, our recommended programs focus on electricity and the solar system.

LIVE SCIENCE

RECOMMENDED ITINERARY

Each program is approximately 30 minutes and can accommodate up to 30 guests. Programs with **OUTREACH** are available to be presented offsite in the classroom.



The Shocking Truth **OUTREACH**

Create and understand the function of different types of circuits, while investigating the types of materials that will and will not allow the flow of electricity. Conduct hands-on experiments with static and current electricity.



Perfect Little Planet

Embark on a journey with an intergalactic family searching for the ultimate vacation spot. Discover our solar system through a new set of eyes as you walk the surface of Mars, sail through the rings of Saturn, and discover lightning storms on Jupiter. Dive over the ice cliffs of Miranda and fly over the surface of the dwarf planet, Pluto. Includes a short live sky astronomy presentation.



Go

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OTHER OPTIONS

3...2...1...Blast Off! **OUTREACH**

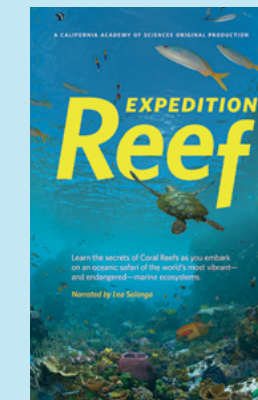
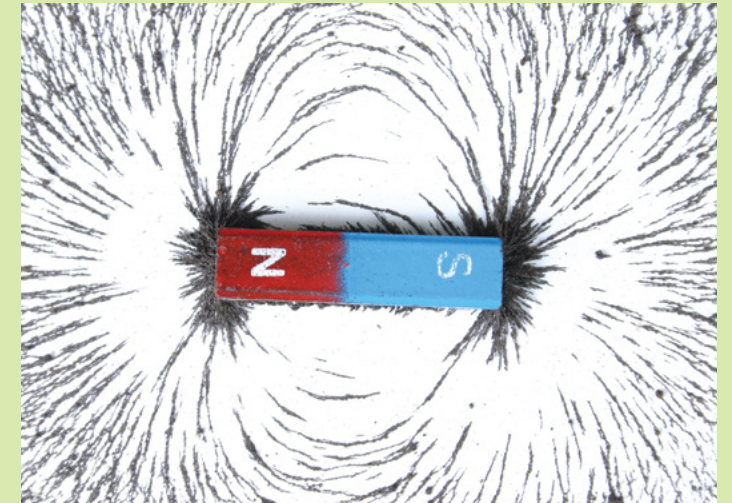
Explore potential and kinetic energy and test Newton's Laws of Motion. Students have a blast using a Newton cart to propel their understanding of force and rocket propulsion.

Opposites Attract **OUTREACH**

Discover the effects of magnets on objects while exploring attraction, repulsion, and magnetic poles. Learn how magnets are used in daily life and investigate the interactions of magnets and electricity while constructing a simple speaker.

Extreme Weather

Explore various weather phenomena, from cloud formation and lightning, to rising seas caused by the increase in ice cap and glacier melt.



Expedition Reef

Learn the secrets of the "rainforests of the sea" as you embark on an oceanic safari of the world's most vibrant—and endangered—marine ecosystems. Along the way, discover how corals grow, feed, reproduce, and support over 25 percent of all marine life on Earth, while facing unprecedented threats from climate change, habitat destruction, and overfishing. Includes a short live sky astronomy presentation.

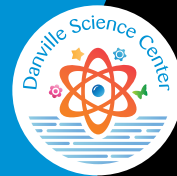


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Grade 5



Fifth graders challenge themselves with critical thinking. To help them understand more complex science principles, our recommended programs introduce key concepts of matter and Earth Science.

LIVE SCIENCE

RECOMMENDED ITINERARY

OTHER OPTIONS

Each program is approximately 30 minutes and can accommodate up to 30 guests. Programs with **OUTREACH** are available to be presented offsite in the classroom.



The Big Chill: Cool CO2 Science

Dry-ice experiments offer dramatic demonstrations of scientific phenomena. Examine magic bubbles, bizarre balloons, and fire extinguishers. Experience states of matter and phase changes with atoms, molecules, and compounds in this ultra-cool program.

Fossil Finds **OUTREACH**

Learn Earth history through this fossil investigation. Dig into coastal plain sediments to discover diversity in ancient ocean environments.

Rock 'n' Roll **OUTREACH**

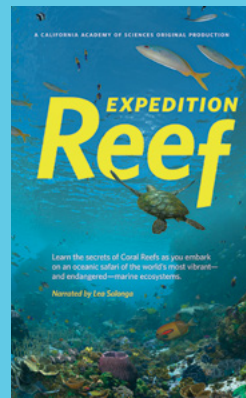
Learn about weathering, erosion, and major rock types as you explore the rock cycle. Discover rock types associated with fossils. Examine a variety of rock samples. Perform streak tests and discover surprising results. Make your own model of a metamorphic rock.

Good Vibrations **OUTREACH**

What is sound? How does sound travel, and how is it measured? Make waves while learning all the news about noise.



DOME



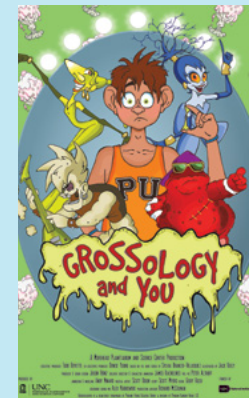
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Flying Monsters

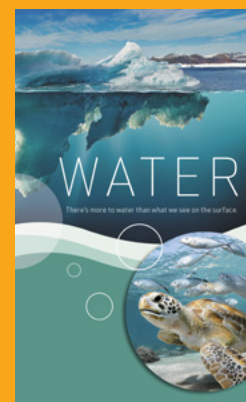
Join David Attenborough, the world's leading naturalist, as he sets out to uncover the truth about the enigmatic Pterosaur, a prehistoric flying creature with wingspan of up to 40 feet, equal to that of a modern-day jet plane. Attenborough joins forces with other scientists working to better understand the incredible journey of the evolution of the Pterosaurs.



Grossology & You

Join Noreen Neuron, host of the *Personal Universe* game show, as she leads us through a competition to decide which body system is the best and brightest. Will it be Scabby (the immune system), Boogie (the respiratory system) or Flatus (the digestive system)? Laugh and learn as these animated characters explore the inner workings of the human body! Includes a short live sky astronomy presentation.

EXHIBITS



Water

Discover history trapped in ice, experience clouds first hand, uncover life found in a droplet, plunge to the depths of the ocean, learn about water usage from a towering wall of 2,000+ water bottles, enter a room of rain and don't get wet, and more. Become immersed in the importance of every drop.



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Grade 6



Sixth graders are all about change – focusing on energy and ecology. To help them better understand the constant changes in our world, our recommended programs uncover changes in matter and in the solar system.

LIVE SCIENCE

RECOMMENDED ITINERARY

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The Big Chill: Cool CO2 Science

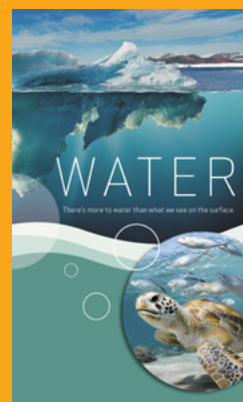
Dry-ice experiments offer dramatic demonstrations of scientific phenomena. Examine magic bubbles, bizarre balloons, and fire extinguishers. Experience states of matter and phase changes with atoms, molecules, and compounds in this ultra-cool program.



Dream Big: Engineering Our World*

Follow the inspirational stories of people who make the impossible possible with science, technology, engineering, and mathematics. From the world's tallest buildings to underwater robots to a solar car race across Australia, *Dream Big* reveals the hidden world behind ingenious inventions and iconic structures.

*Available through Feb. 10



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OTHER OPTIONS

3...2...1...Blast Off! **OUTREACH**

Explore potential and kinetic energy and test Newton's Laws of Motion. Students have a blast using a Newton cart to propel their understanding of force and rocket propulsion.

Riverside Science

Learn about our local ecosystem and watershed directly from the Dan River. Walk down by the river for a first-hand lesson in ecology. Conduct water quality monitoring of samples collected from the river and then continue to reinforce concepts learned through a follow-up activity in the classroom.

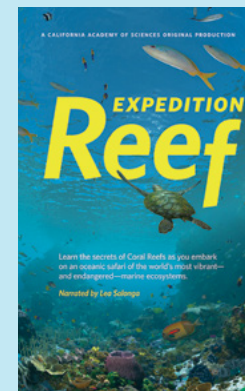
Extreme Weather

Explore various weather phenomena, from cloud formation and lightning, to rising seas caused by the increase in ice cap and glacier melt.



Cosmic Journey: A Solar System Adventure

Take a voyage to the outer reaches of our solar system in search of worlds that might support life. See volcanoes tower 80,000 feet above a barren surface and experience monstrous hurricanes and multicolored rings suspended in air. Enjoy the wonders of the planets and their moons as you travel faster than the speed of light! Includes a short live sky astronomy presentation.



Expedition Reef

Learn the secrets of the "rainforests of the sea" as you embark on an oceanic safari of the world's most vibrant—and endangered—marine ecosystems. Along the way, discover how corals grow, feed, reproduce, and support over 25 percent of all marine life on Earth, while facing unprecedented threats from climate change, habitat destruction, and overfishing. Includes a short live sky astronomy presentation.



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Digital Dome Theater

The Digital Dome Theater illuminates the universe with stunning clarity and brilliance on a gigantic 40-foot screen. With new Dome features added regularly to the Science Center's show offerings, adventurers of all ages are in for a treat! Transport back in time, fly on the backs of pterosaurs, and take a wild ride through the solar system with these dynamic new shows. Shows range from 30 to 45 minutes, and seating is limited to 95 per show. Ask about our special show times for groups of 25 or more.

Digital Dome Theater



Accidental Astronauts

Recommended for grades 2 – 5
32 minutes

Follow the adventures of Cy and Annie and their dog Armstrong as they embark on an unexpected journey into space! Explore the Earth, Sun, and Moon system with a wise-cracking starship computer. Follow an asteroid as it crashes into the Moon. Get up close and personal with a solar storm and gain a new appreciation of our home.



Earth, Moon & Sun

Recommended for grades Pre-K – 5
29 minutes

Earth, Moon & Sun explores the relationship among those cosmic bodies with the help of Coyote, an amusing character adapted from Native American oral traditions who has many misconceptions about our home planet and its most familiar neighbors. His confusion about the universe makes viewers think about how the Earth, Moon, and Sun work together as a

system. Native American stories are used throughout the show to help distinguish between myths and science.

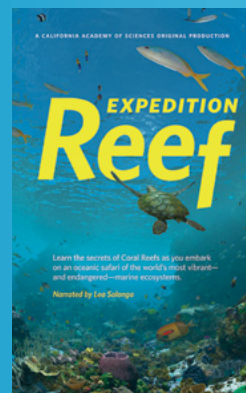


Cosmic Journey: A Solar System Adventure

Recommended for grades 6 & up
23 minutes

Take a voyage to the outer reaches of our solar system in search of worlds that might support life. See volcanoes tower 80,000 feet above a barren surface and experience monstrous hurricanes and multicolored rings suspended in air. Enjoy the wonders of the planets and their moons as you

travel faster than the speed of light! Includes a short live sky astronomy presentation.



Expedition Reef

Recommended for grades 4 & up
26 minutes

Learn the secrets of the “rainforests of the sea” as you embark on an oceanic safari of the world’s most vibrant—and endangered—marine ecosystems. Along the way, discover how corals grow, feed, reproduce, and support over 25 percent of all marine life on Earth, while facing unprecedented threats from climate change, habit

destruction and overfishing. “This is a difficult story [and] a turning point for reefs,” says Academy scientist and reef expert Dr. Rebecca Albright, “but it’s not too late.”



Dream Big: Engineering Our World*

Recommended for grades 4 & up
42 minutes

Follow the inspirational stories of people who make the impossible possible with science, technology, engineering, and mathematics. From the world’s tallest buildings to underwater robots to a solar car race across Australia, Dream Big reveals the hidden world behind ingenious

inventions and iconic structures. Discover how today’s engineers are shaping our tomorrow and what drives these visionaries to create groundbreaking solutions that help us overcome life’s greatest challenges.

*Available through Feb. 10

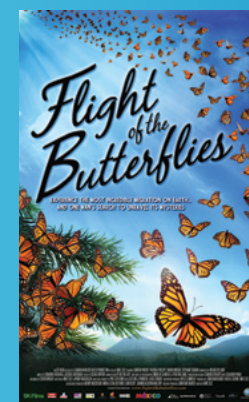


Flying Monsters

Recommended for grades 4 & up
39 minutes

Join David Attenborough, the world’s leading naturalist, as he sets out to uncover the truth about the enigmatic Pterosaur, a prehistoric flying creature with wingspan of up to 40 feet, equal to that of a modern-day jet plane. Attenborough joins forces with other scientists working to better understand the incredible journey of the evolution

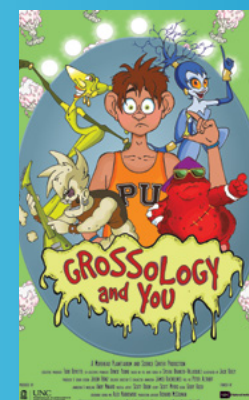
of the Pterosaurs, a story that unfolds in such stunning locations as New Mexico, the Jurassic Coast of Lyme Regis in Britain, an ancient pterosaur landing site in Southern France and a fossil pit in Germany where near perfect Pterosaur specimens have been uncovered. Driven by the information he and his team uncover, Attenborough starts to unravel one of sciences more enduring mysteries, discovering the marvel of Pterosaur flight.



Flight of the Butterflies

Recommended for grades 3 & up
44 minutes

Migrate with hundreds of millions of Monarch butterflies across North America! Immerse yourself in this compelling adventure as you discover a super generation of butterflies as they travel to a new destination. Experience firsthand the beauty of the migration cycle of butterflies spanning not only thousands of miles but several generations!



Grossology & You

Recommended for grades 4 & up
27 minutes

Join Noreen Neuron, host of the *Personal Universe* game show, as she leads us through a competition to decide which body system is the best and brightest. Will it be Scabby (the immune system), Boogie (the respiratory system), or Flatus (the digestive system)? Laugh and learn as these animated characters explore the inner workings of the human body.



Perfect Little Planet

Recommended for grades 3 – 6
38 minutes

Embark on a journey with an intergalactic family searching for the ultimate vacation spot. Discover our solar system through a new set of eyes as you walk the surface of Mars, sail through the rings of Saturn, and discover lightning storms on Jupiter. Dive over the ice cliffs of Miranda and fly over the surface of the dwarf planet, Pluto.



Zula Patrol: Down to Earth

Recommended for grades Pre-K – 2
24 minutes

While on a routine fossil hunting expedition, The Zula Patrol turns up evidence that the villainous Deliria Delight has been traveling back in time to Earth’s prehistoric past to illegally dump her company’s toxic trash. The Zula patrollers must find and catch her before her actions cause catastrophic consequences. In the process, our heroes learn all about the formation and development of Earth and the life forms that call it home.



Zula Patrol: Under the Weather*

Recommended for grades Pre-K – 2
24 minutes

The stalwart heroes of the Zula Patrol are on an expedition collecting samples of weather for scientist Multo’s research. When the Zula gang inadvertently hurts their loyal pet Gorga’s feelings, he decides to leave Zula and find another planet to live on. Villain Dark Truder then tricks

Gorga into helping with his latest nefarious scheme to rule the Universe. The Zula Patrollers find out and go after him—in the process learning all about weather, both terrestrial and interplanetary.

*Available through Feb. 10

Science Central



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Science Station



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Sunday, 11:30 a.m. – 5 p.m.

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Contact us:

434.791.5160 ext. 203 or dscgs@smv.org

dsc.smv.org

Group Admission Fees

For groups of 10 or more.

Exhibits + Digital Dome..... \$8

Exhibits + Activity \$8

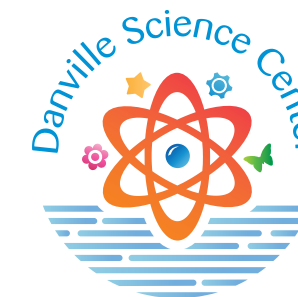
Exhibits + Digital Dome + Activity \$10

To ensure all our guests have the best experience possible, we suggest one adult chaperone for every 10 youth. School personnel are admitted free during a group visit. Additional parent/adult chaperones are \$5 each. Call 434.791.5160 ext. 203 to start your journey today!

Since groups enjoy a discounted admission fee and exclusive programs, individual membership passes and other discounts and coupons are not valid toward group admission fees.

Trip Tips

- If the number of students and chaperones has changed by more than five persons since booking the visit, please call at least three days in advance to update your numbers.
- When possible, collect chaperone admission prior to your visit to make the payment and check-in process smoother.
- If bringing bagged lunches, have lunch bags together in boxes or totes to make unloading from buses easier.
- If you need to purchase lunches, please contact the vendors below directly.



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Explore the Store!

Take a bit of the Science Center experience with you. The gift shop features a wide variety of science books, projects, games, and toys carefully selected to engage students in thinking about and exploring science.

Souvenir bags can be pre-packaged for students. Containing some of our most popular items, these bags can be assembled in a price range of \$2 to \$10 each. Please call 434.791.5160, ext. 203 at least one week in advance of your group's visit to order the bags.

