

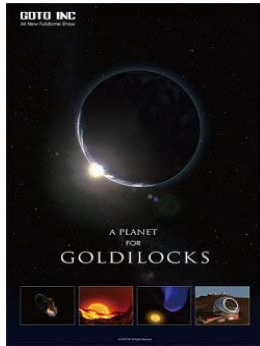
## Mueller Planetarium Fulldome Shows for Reservation

Planetarium reservations must be made **at least two weeks** in advance.

The planetarium is **closed on Monday** for routine maintenance.

<u>School &amp; group reservations*</u>	<u>Birthday parties</u>	<u>Late policy</u>
<p>Maximum capacity: 60**</p> <p style="text-align: center;"><u>September to mid-May</u> Tuesday – Friday: 10am   11am   12pm   1pm   2pm   3pm Thursday evening: 6pm   7pm</p> <p style="text-align: center;"><u>Mid-May through August</u> Tuesday – Friday: 10am   1pm   2pm   3pm Thursday evening: 6pm   7pm</p> <p>Price***: \$5/child, \$7/adult with a minimum \$50 fee</p> <p>To reserve a planetarium show for your school or group, call 402-472-6302 or email: <a href="mailto:elephant@unl.edu">elephant@unl.edu</a></p> <p>If you wish to reserve the planetarium for a special event or venue, email: <a href="mailto:mhaase2@unl.edu">mhaase2@unl.edu</a></p> <p>*some dates &amp; times may not be available if they conflict with specified museum events or other circumstances. Contact our reservations department to verify your date and time will work</p> <p>**this is a State Fire Marshal mandate</p> <p>***self-guided museum admission is included with a planetarium reservation</p>	<p>*Saturday: 10am   2pm</p> <p>To schedule a birthday party with the planetarium &amp; museum, call 402-472-2637 or visit the Morrill Hall front desk.</p> <p>*planetarium is closed on UNL home football games days</p>	<p>If your group is 10 minutes late or more to your scheduled show, we reserve the right to cancel it. You will be charged a \$50 late fee if no notice is given.</p> <p style="text-align: center;"><u>Please note</u></p> <p>For your safety, there is no entry or re-entry into the planetarium once a program has begun.</p> <p>The planetarium is a dark environment with overhead motion &amp; occasional loud sounds. It is not recommended for guests who are sensitive to such conditions.</p> <p>If you have questions about a particular show or program, email: <a href="mailto:planetarium@unl.edu">planetarium@unl.edu</a></p>

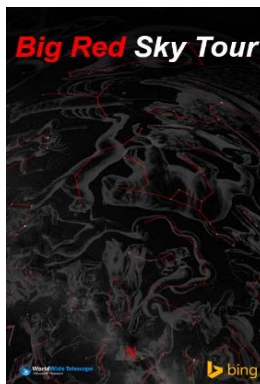
# Astronomy & Space Science



## **A Planet for Goldilocks**

In 1995, astronomers detected 51 Pegasi, the first exoplanet – a planet orbiting a star other than our sun. Since that time the search for a planet like Earth has been like Goldilocks's search. Explore the ongoing hunt for exoplanets in the habitable zone - where they might even support life. Experience humankind's search for a planet with conditions that could be "just right".

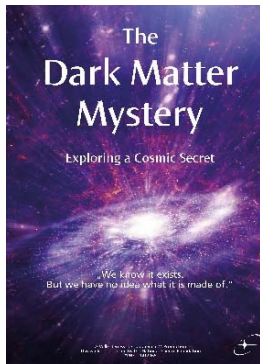
*(Recommended for ages 8+, grades 4-12) (30 mins.)*



## **Big Red Sky Tour**

Embark on a live, galactic tour to discover what we can see with just our eyes or by using binoculars and telescopes. We'll explore deep-sky objects and cosmic gems found in our own solar system! You'll be able to identify constellations, uncover some of the wonderful facts, legends, and ancient stories behind these patterns and stars, and see what makes astronomy so enchanting! The Big Red Sky Tour changes every season giving viewers more opportunities to discover Nebraska's night skies year-round.

*(Recommended for ages 7+, grades 1-12) (35 mins.)*

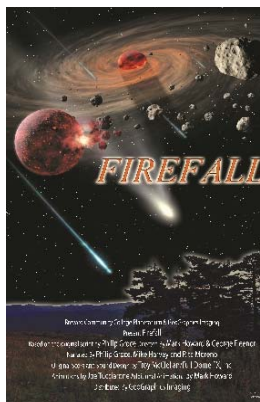


## **The Dark Matter Mystery**

What keeps galaxies together? What are the building blocks of the Universe? What makes the Universe look the way it does today? Researchers all around the world are trying to answer these questions. We know today that most of the Universe is filled with a mysterious glue: dark matter. We know it's out there, but we have no idea what it's made of. This show takes you on the biggest quest of contemporary astrophysics. You will see how we know dark matter exists and how this search is one of the most challenging & exciting science has to offer!

*(Recommended for ages 10+, grades 6-12) (40 mins.)*

(Available in Chinese, Czech, French, German, Hindi, Indian English, Italian, Japanese, & Telugu)

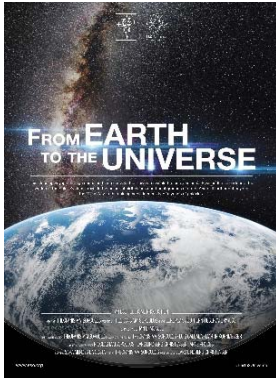


## **Firefall**

Throughout Earth's violent history, impacts from comets and asteroids have mercilessly shaped its surface. The ancient barrage continues today; from harmless meteors – those brilliant streaks in the night sky -- to mountain sized boulders wandering perilously close to Earth. Terrifying and majestic, these invaders from space are capable of utter destruction, yet they have delivered life-giving water and most of the organic materials necessary for life. This ceaseless firefall is our only tangible connection to the universe beyond and is an ever-present reminder of our own humble beginnings in the hostile environment of space.

*(Recommended for ages 8+, grades 4-12) (35 mins.)*

**Education guide available for download**

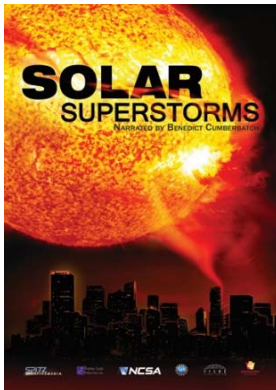


**From Earth to the Universe**

This voyage through space and time conveys, through sparkling sights and sounds, the Universe revealed to us by science. Viewers can revel in the splendor of the worlds in the Solar System and our scorching Sun. The show takes the audience out to the colorful birthplaces and burial grounds of stars, and still further out beyond the Milky Way to the unimaginable immensity of a myriad of galaxies. Along the way, the audience will learn about the history of astronomy, the invention of the telescope, and today's giant telescopes that allow us to probe ever deeper into the Universe.

*(Recommended for ages 10+, grades 6-12) (35 mins.)*

(Available in Arabic, Bulgarian, Chinese, Croatian, Czech, Dutch-Flemish, French, German, Greek, Hindi, Hungarian, Italian, Japanese, Korean, Malayalam, Polish, Portuguese, Romanian-Moldavian-Moldovan, Russian, Slovak, Spanish-Castilian, Swedish, Telugu, & Vietnamese)



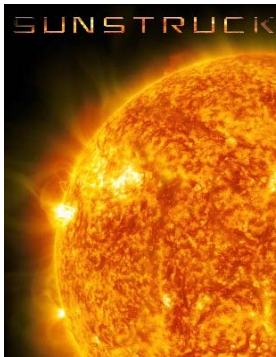
**Solar Superstorms**

A fury is building on the surface of the Sun – high-velocity jets, a fiery tsunami wave that reaches 60,000 miles high, rising loops of electrified gas. What's driving these strange phenomena? How will they affect planet Earth? Find the answers as we venture into the seething interior of our star. The show features one of the most intensive efforts ever made to visualize the inner workings of the sun, including a series of groundbreaking scientific visualizations computed on the giant new supercomputing initiative, Blue Waters, based at the National Center for Supercomputing Applications (NCSA), University of Illinois. Brace yourself for the onslaught of the next... Solar Superstorm!

Narrated by Benedict Cumberbatch.

*(Recommended for ages 10+, grades 5-12) (25 mins.)*

**Education guide available for download**



**Sunstruck**

Explore the science of our Sun like never before! This feature displays information on the Sun, parts/layers, space weather, its impact on Earth and much more. Audiences will gain an enhanced understanding of the Sun and how it impacts our world.

*(Recommended for ages 8+, grades 4-12) (25 mins.)*

**Education & resource guide available for download**



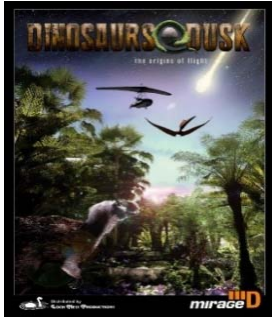
**We Are Stars (NEW!)**

What are we made of? Where did it all come from? Explore the secrets of our cosmic chemistry, and our explosive origins. Connect life on Earth to the evolution of the Universe by following the formation of hydrogen atoms to the synthesis of carbon, and the molecules for life. With expert input from leading scientists—cosmologists, astrophysicists, astrochemists, planetary scientists and astrobiologists—we present humanity's current understanding of where everything, including us, came from.

Narrated by Andy Serkis.

*(Recommended for ages 8+, grades 4-7) (30 mins.)*

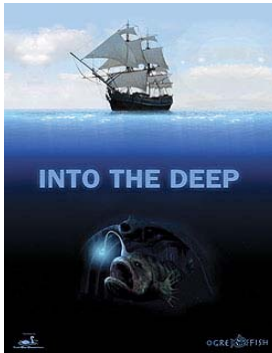
## Health & Natural Science



### **Dinosaurs at Dusk**

Travel back in time to meet the pterosaurs and the ancestors of modern-day birds: the feathered dinosaurs. Lucy and her father navigate from continent to continent, looking for clues about the origins of flight. When time runs out they experience first-hand the cataclysmic “last day” of the dinosaurs. Dive into topics such as continental drift, asteroids and impacts, extinctions and the convergent development of flight among species!

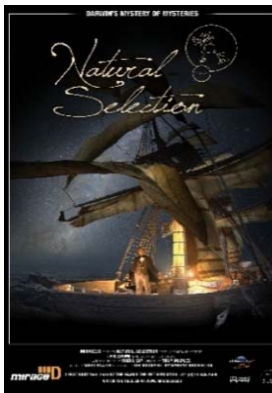
*(Recommended for ages 8+, grades 4-7) (30 mins.)*  
*(Also available for birthday parties)*



### **Into the Deep**

A breathtaking journey of sea exploration combining marine biology and underwater geology with a history of deep-sea exploration. The 1930 mission by William Beebe and Otis Barton marked humanity's first true exploration of the depths. Recent dives are recounted, from Robert Ballard's journey to the RMS Titanic to filmmaker James Cameron's recent solo dive into the Mariana Trench — all expanding our understanding of the deep-sea environment. Come face-to-face with the fascinating creatures that survive where no life was ever expected--- “Into the Deep.”

*(Recommended for ages 8+, grades 4-12) (35 mins.)*



### **Natural Selection**

Join Charles Darwin on his voyage with the HMS Beagle to the Galapagos Islands where he was inspired to develop his theory of transmutation by natural selection. From the comfort of Down House in Kent, Darwin himself will explain the mechanism of natural selection and support it by showing many beautiful examples in nature. The thrill of a scientific discovery, the adventure of science, and the beauty of nature are central to this show.

*(Recommended for ages 10+, grades 6-12) (45 mins.)*  
 (Available in Dutch & German)

**Education guide available for download**



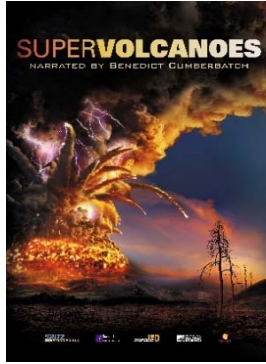
### **Seeing**

The story of light, sight and vision. We begin with a photon's creation inside a distant star and follow its immense journey across the galaxy into the eye of a young stargazer. As the photon enters, we learn about the structures of the eye & their functions and we ride along the optic nerve traveling the pathways of our brain, resulting in an image in our mind.

Narrated by Neil deGrasse Tyson.

*(Recommended for ages 10+, grades 5-12) (30 mins.)*  
 (Available in Italian)

**Workbook available for download**



### Supervolcanoes

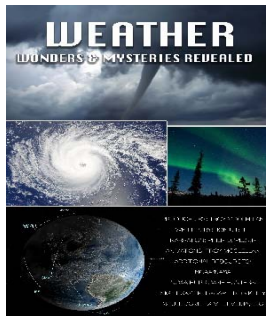
Explore rare types of volcanic eruptions that marshal the energy that lurks beneath the surface of planet Earth. The story of these big blow outs is a tale of havoc and mayhem: mass extinctions, climate collapses, and violence beyond anything humans have ever witnessed. See the impact of volcanism on Earth and other worlds in our solar system. Can a supervolcano erupt in our own time? The answer is surprisingly close to home.

Narrated by Benedict Cumberbatch.

*(Recommended for ages 9+, grades 4-12) (30 mins.)*

(Available in Mandarin)

**Education guide available for download**

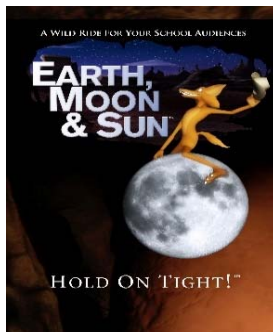


### Weather: Wonders & Mysteries Revealed (NEW!)

Experience incredible weather phenomena across the globe! From extreme events, like tornadoes & hurricanes to beautiful optical effects, such as rainbows & the aurora borealis, discover how dynamic Earth's weather system is. Explore the water cycle and how it leads to thunderstorms, plus see how a gentle snowfall turns into a blizzard and more!

*(Recommended for ages 8+, grades 4-12) (30 mins.)*

## Younger Audiences



### Earth, Moon, & Sun

Coyote has a razor-sharp wit, but he's a little confused about what he sees in the sky. Join this amusing character (adapted from American Indian oral traditions) in a fast-paced and fun show that explores lunar phases, eclipses and other puzzles. Engaging and immersive, Earth, Moon & Sun also examines how humans learn through space exploration.

*(Recommended for ages 7+, grades 1-5) (30 mins.)*

**Education guide available for download**



### One World, One Sky: Big Bird's Adventure

Follow Sesame Street's Big Bird and Elmo as they explore the night sky with Hu Hu Zhu, a Muppet from Zhima Jie, the Chinese co-production of Sesame Street. Together, they take an imaginary trip from Sesame Street to the moon, where they discover how different it is from Earth. Big Bird, Elmo, and Hu Hu Zhu pick a friendship star to remind them that no matter how far apart they might be, they can always look into the night sky and cherish their shared memories. This show is a brilliant spectacle of light and color as the furry friends watch the stars twinkle over Sesame Street.

*(Recommended for ages 4-7, grades pre-school-2) (30 mins.)*

*(Also available for birthday parties)*

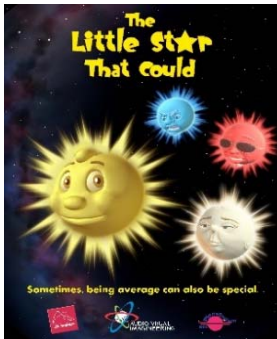
**Education guide available for download**



**Rusty Rocket's Last Blast**

After decades of teaching the basics of rocket physics, Rusty Rocket has decided this will be his last blast, and he already has plans for how he will spend his free time. Still there is one final mission to command: an introductory tour of the solar system for a new class of rocket rookies focusing on the wide variety of planetary environments. Along the way, we learn Rusty is related to every famous spacecraft to explore the solar system. He also emphasizes the immense distances between the planets using cars and jets for comparison. *(Recommended for ages 6-9, grades K-3) (40 mins.)*

**Education guide available for download**

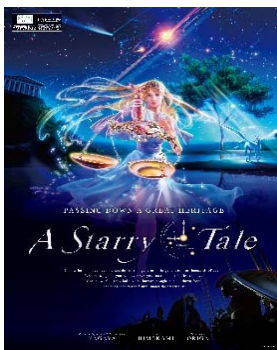


**The Little Star That Could**

This is a story about Little Star, an average yellow star in search for planets of his own to protect and warm. Along the way, he meets other stars, learns what makes each star special, and discovers that stars combine to form star clusters and galaxies. Eventually, Little Star finds his planets and learns that being average can also be very special. *(Recommended for ages 6-8, grades K-2) (40 mins.)*

**Education guide available for download**

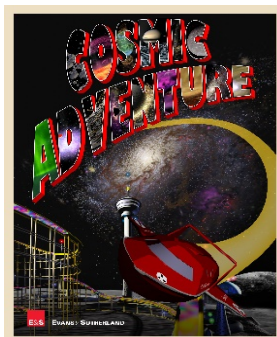
**Entertainment**



**A Starry Tale**

The stars have carried messages for thousands of years and have been handed down generation after generation. An ancient story of gods and humans has begun! Explore the constellations in beautiful computer-generated imagery and art. A story from Greek mythology tells the tale of Astraea, the goddess of justice, who is associated with the constellation Libra the Scales.

*(Recommended for ages 7+, grades 2-6) (30 mins.)*



**Cosmic Adventure**

This high speed adventure for family audiences takes you on a roller coaster ride from the Moon through our solar system, galaxy and beyond. You'll be immersed in some of the most amazing sites in the universe. It's a ride you will want to take again and again! Narrated by Nancy Cartwright.

*(Recommended for ages 6-10, grades K-5) (25 mins.)*  
*(Also available for birthday parties)*

## History & Culture



### **Dawn of the Space Age**

Relive the excitement of the early days of space exploration, from the launch of the first artificial satellite Sputnik, to the magnificent lunar landings and privately operated space flights. Be immersed and overwhelmed with this most accurate historic reconstruction of Man's first steps into space. Who were these men and women that took part in these death-defying endeavors? Witness their drive, their passion, and dedication to explore.

*(Recommended for ages 10+, grades 5-12) (45 mins.)*

(Available in Arabic, Chinese, Dutch, French, German, Italian, Polish, Russian, & Spanish)

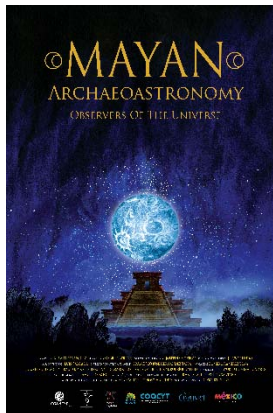
**Education guide available for download**



### **Dream to Fly**

Discover the mystery of flight with Leonardo da Vinci, the Montgolfier brothers, the Wright brothers and other inventors in this poetic story about the history of aviation. It presents the milestones on our route to conquering the skies—both in terms of technological breakthroughs, as well as our perceptions on flying itself.

*(Recommended for ages 8+, grades 4-12) (35 mins.)*



### **Mayan Archaeoastronomy (NEW!)**

Experience the cosmos through the eyes of the ancient Mayans! In a feast of colors and sounds, take a tour of six Mayan temples: San Gervasio, Chichen Itzá, Uxmal, Edzná, Palenque and Bonampak. Dive into the Mayan world of knowledge about the importance of the orientations of temples in relation to the movement of some stars like the Sun, the Moon and Venus.

*(Recommended for ages 10+, grades 5-12) (25 mins.)*

(Available in Chinese, Portuguese, & Spanish-Castilian)