School Field Trip
Planetarium Shows

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Sesame Street
One World, One Sky
Preschool, 3 year olds

*Sesame Street - One World, One Sky* begins on Sesame Street when Elmo's friend, Hu Hu Zhu, visits from China. Together, Big Bird, Elmo and Hu Hu Zhu locate the Big Dipper, the North Star and the Moon in the night sky. Elmo and Hu Hu Zhu want to learn more about the Moon, so Big Bird suggests that they use their imagination to travel there. Once on the Moon, Elmo and Hu Hu Zhu quickly learn that the Moon has a very different environment than Earth. They discover there is no air on the Moon and learn that without air there can be no trees, animals, flowers or, to their disappointment, flying kites or playing soccer. Realizing this makes them homesick. They use their imagination to travel back to Sesame Street. Back on Earth, Big Bird, Elmo and Hu Hu Zhu realize that even though they live in two different countries, they still share the same sky.

Tycho to the Moon
Preschool, 4 year olds

Meet Tycho, a dog who doesn't just howl at the Moon, but wants to go there. Blast off on an amazing ride into space with Tycho and his young friends Ruby and Michael. Learn about night and day, space travel, the phases of the Moon and features of the lunar surface. Take a close-up look at the Sun, watch the effects of gravity, see the Earth from space and watch meteors shoot across the night sky!

Legends of the Night Sky
Orion
Kindergarten - 1st grade

A fun-filled, imaginative look at stories and legends about Orion, the great hunter of the winter sky. Accompanied by narrators Aesop the owl and Socrates the mouse, we follow Orion’s adventures as he grows to manhood, battles mythical beasts, foils the plot of an evil king and wins the hearts of Artemis, the beautiful moon-goddess. By the end of the story, we learn how the constellation Orion was placed in the sky, forever turning overhead throughout the seasons.
**Legends of the Night Sky**  
*Perseus & Andromeda*  
*Kindergarten - 1st Grade*

Based on constellations viewed in the fall sky, this humorous and well-paced animated story highlights the Greek myths associated with these star patterns. Watch how Perseus, the son of Zeus, grows up to become a great warrior, slew the evil Medusa, rescues Andromeda from Cetus, the sea monster and unwittingly fulfills ancient prophecy. This entertaining tale is designed to engage young students and stimulate their interest in learning about the night sky.

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**The Secret of the Cardboard Rocket**  
*Kindergarten - 3rd grade*

Two young adventurers turn a cardboard box into a rocket and blast off on an awesome adventure. They visit each planet in the solar system and find out what makes Earth such a special place to live. During this imaginative show, audiences will land on Venus, fly through rings of Saturn and discover the secrets of the Solar System.

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**Earth, Moon & Sun**  
*Grades 1-3*

This planetarium show explores the relationship between the Earth, Moon and Sun 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. Learn why the sun rises and sets and the basics of fusion and solar energy. Examine the Moon’s orbit, craters, phases and eclipses. Also, the show explores past and future space travel to our Moon and beyond.
Magic Tree House Space Mission
Grades 1-3

Jack and Annie from the best-selling Magic Tree House children’s book series guide audiences in this original adventure. They embark upon a fun-filled journey in their magical tree house and learn wondrous secrets of the Sun, the Moon, planets and beyond. During their adventure, Jack and Annie meet an astronaut, visit an observatory, and travel into outer space. This show is written by Will Osborne, co-author of Space, the non-fiction companion and research guide to the Magic Tree House book Midnight on the Moon.

Moleculararium
Chasing Snowflakes
Grades 1-3

Moleculararium is a science lesson, a thrill-ride and a magical musical adventure in a world of atoms and molecules. Climb aboard the magical ship The Molecularium and join a cast of atomic characters on an immersive and unforgettable adventure into the nanoscale universe! Explore billions and trillions of atoms and molecules with Oxy, a precocious oxygen atom, and Hydro and Hydra, her wacky hydrogen pals. Ride from the atomic structure of a snowflake to the far reaches of space aboard the Molecularium! Audiences are transported into the world of atoms, where they learn about the water cycle, the three states of matter, and that everything is made of atoms and molecules!

Astronaut 3D
Grades 4 and up

The exploration of space is the greatest endeavor that humankind has ever undertaken. What does it take to be part of this incredible journey? What does it take to become an astronaut? Experience a rocket launch from inside the body of an astronaut. Explore the amazing worlds of inner and outer space, from floating around the International Space Station to maneuvering through microscopic regions of the human body. Discover the perils that lurk in space as we subject ‘Chad’, our test astronaut, to everything that space has to throw at him. (3D glasses are not used to view this movie).
Back to the Moon for Good
Grades 4 and up

The Google Lunar XPRIZE full-dome planetarium show Back To The Moon For Good chronicles teams around the world competing for the largest incentivized prize in history, by landing a robotic spacecraft on the Moon for the first time in more than 40 years. The show opens with the first era of space exploration in the late 1960s and early 1970s. We see what that era of landers and orbiters taught us about our nearest neighbor including the discovery of the Moon's origin, composition, structure and the accessibility of raw materials on its surface. The Google Lunar XPRIZE is designed to democratize space and create new opportunities for eventual human and robotic presence on the Moon. We see the engineering and innovation steps taken by the internationally distributed teams competing to land a spacecraft on the Moon and vie for additional prizes. Who will win the $30 million Google Lunar XPRIZE? The audience is taken through a successful launch, landing and lunar surface travel. The show ends with a stunning glimpse of a plausible scenario for our future on the Moon.

Black Holes
Grades 4 and up

There's a place from which nothing escapes, not even light. Where time and space literally come to an end. It's at this point inside, this fantastic riddle that black holes exert their sway over the cosmos...and our imaginations.

Zip through other-worldly wormholes, experience the creation of the Milky Way Galaxy and witness the violent death of a star and subsequent birth of a black hole. Mathematical equations, cutting-edge science and Einstein's theories fill in holes along the way, providing the most complete picture yet on this mysterious phenomenon. Can you feel the pull?

Dawn of the Space Age
Grades 4 and up

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 who took part in these death defying endeavors? Witness their drive, their passion and perseverance to explore!
Fragile Planet
Grades 4 and up

Earth, our only known haven for life, inhabits a special place in the cosmos. But how special? Sigourney Weaver guides audiences on an immersive excursion that will inspire a new perspective on our home world. After a close look at Earth, Fragile Planet visits the planets and moons in our solar system in search of hide-outs for life, and then takes in our ongoing exoplanetary exploration and extragalactic discoveries. The visually intense program uses the latest visualization techniques to weave together observed data, including high-resolution satellite and spacecraft imagery, terrain maps, and pinpoint positioning of stars, exoplanets and galaxies. Weaver’s sensitive narration provides a poetic counterpoint to the rich visuals, and renowned giant screen composer Michael Stearns creates a deeply evocative multi-dimensional sound environment. The spectacular visuals are augmented by an audio environment that is as immersive as the imagery.

Hayabusa: Back to the Earth
Grades 4 and up

On May 9, 2003, the Japanese space probe, HAYABUSA, was launched atop a M-V Launch Vehicle on a mission to return a sample from the asteroid Itokawa. However, as the 2 billion kilometer mission went on, more and more technical challenges faced the tiny probe. Yet, it eventually landed on the asteroid and afterward amazing work and problem-solving by Earth-based scientists and engineers, it returned to Earth on June 13, 2010. This is the inspiring story of that “little spaceship that could!”

Maunakea Between Earth and Sky
Grades 4 and up

Explore the connections between Hawaiian culture and Maunakea astronomy. Be immersed in the Hawaiian story of Pele and Poli’ahu and the creation of the Hawaiian Islands. Gaze into the night sky and search for Hōkūpa’a, your guide star. Fly through the observatories on the summit of Maunakea. Then look farther, past planets, galaxies and swirling nebula---and even deeper, back into the beginning of the universe. Audio available in Japanese.
**Origins of Life**
Grades 4 and up

*Origins of Life* deals with some of the most profound questions of life science: the origins of life and the human search for life beyond Earth. Starting with the Big Bang, in chronological order, the show deals with the prebiotic chemistry in the universe, the formation of stars, formation of solar systems, and the first life on Earth.

Furthermore, *Origins of Life* covers the great extinctions as well as our search for (primitive) life beyond planet Earth. *Origins of Life* is an inspirational journey through time and a celebration of life on Earth.

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**Seven Wonders**
Grades 4 and up

Seven Wonders explores the ancient wonders of the world as they have not been viewed for thousands of years. Using digital technology, we turn back time to see them at the height of their majesty and glory. We will investigate the theories of how these wonders were created and compare them to some of the universe’s greatest wonders such as supernovae, black holes and nebulae. *Seven Wonders* is narrated by British actor, Sean Bean, who played the character Boromir in *Lord of the Rings*. It includes a guided tour of the night sky featuring stars, planets, constellations and more!

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**Tales of the Maya Skies**
Grades 4 and up

*Tales of the Maya Skies* tells the story of how the ancient Maya interwove astronomy and culture to create a stable society that spanned 2000 years. The show brings us back to the ancient jungles of Mexico, where the Maya built cities and temples aligned to the movements of the Sun, Moon, and planets. Over many years they observed and documented astronomical events with great accuracy. The Maya made sense of an ever-changing world by observing, recording and predicting natural events such as solstices, solar eclipses, weather patterns and planetary movements. These observations, in combination with a sophisticated mathematical system, allowed them to develop a precise calendar system; their measurements of the length of the solar year were more accurate than measurements the Europeans used as the basis of the Gregorian calendar. The Maya were also able to forecast seasonal change and developed the concept of mathematical zero, enabling them to predict events into the future. Tales of the Maya Skies weaves together this rich combination of science, culture, and legend, immersing viewers in the sounds and sights of an ancient way of life.
We are Astronomers
Grades 4 and up

We are Astronomers reveals the global collaboration, technology and dedication required to answer the unresolved questions of the universe. See how technologies such as the Large Hadron Collider, the observatories of Chile and the Hubble Space Telescope work and how they are used by teams around the world. The show appropriately ends with the sentiment that we are indeed "all astronomers!"

Wildest Weather
Grades 4 and up

Join National Geographic on a spectacular journey to witness the most beautiful, powerful, and mysterious weather phenomena in the solar system. From a storm the size of a 100-megaton hydrogen bomb, to a 400-year old hurricane, to a dust tempest that could engulf entire planets, you'll be glad you live on Earth! Audiences will fly through the thick atmosphere of Venus, magnetic storms on the Sun, liquid methane showers on Titan, and anticyclones whirling at hundreds of miles per hour on Jupiter.

3D Sun
Grades 7 and up

From Earth, the Sun cannot be looked at with human eyes. 3D Sun gives students a chance to see the Sun up close in startling 3D. Stand above the Arctic Circle and witness the most brilliant auroras on Earth; take a ride on a solar blast from Sun's surface to Earth's Magnetosphere, and come to a deeper understanding of what this vast sea of fire means to life here on Earth. (3D glasses are not used to view this movie).
Asteroid Mission Extreme
Grades 7 and up

Presented by National Geographic, Asteroid: Mission Extreme immerses audiences in a full-dome, surround sound environment and takes them on an epic journey to discover how asteroids are both a danger and an opportunity. The danger lies in the possibility of a cataclysmic collision with Earth; the opportunity is the fascinating possibility that asteroids could be stepping-stones to other worlds – veritable way stations in space that could enable us to cross the Solar System. As with any venture into outer space, the challenges involved with making this idea a reality are enormous; however, a mission this extreme could ultimately teach us how to protect our planet and successfully inhabit other worlds. Asteroid: Mission Extreme is produced by National Geographic and Sky-Skan, and narrated by Sigourney Weaver.

Darwin and his Fabulous Orchids
Grades 7 and up

Darwin and his Fabulous Orchids presents the fascinating world of evolutionary biology. It is an introduction to the largest and most varied family of plants on planet earth. Orchids are amazingly seductive and full of tricks when it comes to attracting insects and ensuring pollination, which in turn means securing their own survival. Their creativity amazed famous scientist, Charles Darwin, who carried out intensive research on this family of plants. The show is optically intense, biologically and historically authentic in every detail, and an elegant experience in which you will lose yourself in a sea of colors amid the beautiful orchids of the world!

Mystery of the Christmas Star
Grades 7 and up

Journey back 2000 years to Bethlehem to discover a possible scientific explanation for the star the wise men followed to find the baby Jesus. This program investigates recorded sightings of significant astronomical events during the time of the birth of Christ. Investigators will see which of these signs in the sky could have been remarkable enough to cause the wise men to travel across the desert from Babylon just to see a newborn King. This modern retelling of the Christmas story is sure to charm and captivate audiences of all ages.
Natural Selection

Grades 7 and up

Join the young Charles Darwin on an adventurous voyage of exploration circumnavigating the World on the HMS Beagle. In Victorian times many physical phenomena were already discovered and described by natural laws, but life's most eloquent mechanism was still unknown: How could new species arise to replace those lost in extinction? It was time for someone to come forth with a Naturalist explanation of this Mystery of Mysteries. Allow Darwin himself to reveal this simple and most beautiful mechanism that explains the evolution of all life on Earth: Natural Selection, the single most wonderful idea anyone has ever had...

Skies Above Hawaiʻi

Grades 7 and up

Join us for a live tour of the current night sky featuring stars, planets and more! Your guide will share stories of constellations, look at the Moon’s current phase and reveal planets you can see from your own backyard. The program also highlights Hawaiian Star Lines that Polynesian voyagers use to navigate the oceans.

To Space and Back

Grades 7 and up

Space exploration, our greatest adventure, is having a big impact on our lives. It is helping us to discover a universe of unimaginable scale and beauty, and it is reaching down into our world and influencing the way we live. To Space and Back takes audiences on an incredible journey from the far reaches of our known universe to our own planet. It is an extraordinary story of human ingenuity and incredible engineering, describing how the technology that transports us through space is paving the way for the devices and apps we use every day. What is happening above is coming back down to Earth!
Awesome Light I
Mirrors on the Mountain
Grades 9 and up

Hawaiians care for Maunakea as an elder and a sacred place that connects them to their place of origins. Astronomers from around the world care for Maunakea as a place to search for knowledge. It is here that the world’s most renowned observatories seek to understand the great question of the universe. See how Subaru Observatory studies distant solar systems - stars and planets that may be similar to our own. Learn how Gemini Observatory watched the death of a star in a far-off galaxy to understand how the universe seeds elements that form the building blocks of all matter. Marvel at Canada-France-Hawaii Telescope’s Legacy Survey that has mapped many thousands of galaxies to figure out how structure in the universe was created. Explore a massive black hole at the center of our galaxy as viewed by W.M. Keck Observatory.

Awesome Light II
Seeing the Invisible
Grades 9 and up

How do we see the invisible? By using a different kind of eyes! Seeing the Invisible takes the audience to Maunakea and the radio and submillimeter observatories located there. In this episode we see the remnants of a comet collision with Jupiter using the Submillimeter Array (SMA). Fly into the heart of our Milky Way Galaxy and see gas flows there from JCMT, study star formation in the Whirlpool Galaxy from CSO, and explore the largest black hole and jet in the universe with the VLBA. The program uses dramatic footage of each of these observatories and displays their science results in a spectacular way.

Awesome Light III
Chasing Celestial Mysteries
Grades 9 and up

This is the third in the Awesome Light series exploring the observatories of Maunakea, presenting this within the context of a sacred mountain that is a symbol for Hawaiian cultural issues. In this program, we examine how near Earth asteroids are explored with the NASA IRTF. Discover how supernovae detected by UH88 teach us about the size and age of our universe. View our Milky Way galaxy in a new way with the UKIRT, and hear the personal stories of discovery and inspiration from Hawaiian students using the UHH Hokū Kea telescope. The program uses stunning imagery from inside these observatories combined with stunning animations to bring these stories to life.
IBEX: Search for the Edge
Grades 9 and up

Join scientists who are investigating the boundary between our Solar System and the rest of our galaxy. This show follows the creation of NASA’s Interstellar Boundary Explorer (IBEX). Students will get an in-depth look at the mission and how IBEX is collecting high-speed atoms to create a map of our Solar System’s boundary. Narrated by two inquisitive teenagers, audiences will hear from the scientists and engineers that developed the IBEX mission and created the spacecraft, and get the latest updates on the mission’s discoveries.

To book your school field trip, contact Punawai Rice at 808-932-8924, or email education@imiloahawaii.org

‘Imiloa school planetarium show listing is subject to change without notice.