

Synopsis of Full-dome Videos

In addition to the full-dome movies listed below, our curators are also prepared to present lessons/shows on the following topics:
Earth's Moon, Seasons, The Solar System, Boy Scout Astronomy Merit Badge, Eclipses, Time Zones, and grade-level specific shows that cover various topics.

Video Title	Description/Synopsis	Duration (minutes)	Suitable Audience	Year	Preview Video Link	Subject Area(s)
<i>Back To The Moon For Good (Google X-Prize)</i>	Back to the Moon For Good- In case you haven't heard, the Moon is trending again... and in a big way. Like in the glory days of the 1960s and 1970s, our big white space neighbor is enjoying the attention of lunar explorers. Only this time, they're going back to the moon for good. The educational 24-minute Google Lunar XPRIZE fulldome 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. To win the Google Lunar XPRIZE, a team must land a robotic spacecraft on the Moon, navigate 500 meters over the lunar surface, and send video, images and data back to Earth. This global competition is designed to spark imagination and inspire a renewed commitment to space exploration, not by governments or countries – but by the citizens of the world.	24	Ages: 10 - Adult	2014	http://www.googlelunarxprize.org/education/domeshow	Astronomy, Engineering, Technology, Space Exploration
<i>Cell, Cell, Cell</i>	Cell, Cell, Cell- You are made of 70 trillion living cells. They work. They talk. They think. They are what make you alive. This is the story of the trillions of cells that form our bodies, from our beginnings as a single cell to the complexity of a whole body: it's the story of who we are. Join Raj and Sooki on a totally ex-CELL-ent immersive journey. Get shrunk down by the Shrink-a-tron, go back in time with the Retroscope and see an exploded view of all the body systems courtesy of the Cell-o-tron.	24	Grades 6 - 12	2012	http://vimeo.com/47099587	Life Science, Biology, Life Systems, Science
<i>Dark</i>	Dark is a fulldome movie that explains and explores the nature of Dark Matter, the missing 80% of the mass of the Universe. The search for Dark Matter is the most pressing astrophysical problem of our time– the solution to which will help us understand why the Universe is as it is, where it came from, and how it has evolved over billions of years – the unimaginable depths of deep time, of which a human life is but a flickering instant. But in that instant, we can grasp its immensity and, through science, we can attempt to understand it.	20	Ages: 14 - Adult	2012	https://vimeo.com/petermorse/dark	Physics, Astrophysics, Science

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<i>Dynamic Earth: Exploring Earth's Climate Engine</i>	Dynamic Earth- The award-winning Dynamic Earth explores the inner workings of Earth's great life support system: the global climate. With visualizations based on satellite monitoring data and advanced supercomputer simulations, this cutting-edge production follows a trail of energy that flows from the Sun into the interlocking systems that shape our climate: the atmosphere, oceans, and the biosphere. Audiences will ride along on swirling ocean and wind currents, dive into the heart of a monster hurricane, come face-to-face with sharks and gigantic whales, and fly into roiling volcanoes. Dynamic Earth is the result of a two-year long collaboration between Spitz Creative Media, the Advanced Visualization Lab at the National Center for Supercomputing Applications at the University of Illinois, NASA's Scientific Visualization Studio, and Thomas Lucas Productions, Inc., in association with the Denver Museum of Nature & Science and NASA Earth Science. Narrated by Liam Neeson.	24	Ages: 9 - Adult	2012	http://www.nasa.gov/topics/earth/features/dynamic-earth.html	Science, Climate, Environmental Science, Marine Science, Life Science, Biology, Earth Science, Weather, Geology
<i>Earth, Moon and Sun</i>	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 Native American oral traditions) in a fast-paced and fun fulldome show that explores lunar phases, eclipses and other puzzles. Engaging and immersive, Earth, Moon & Sun also examines how humans learn through space exploration. Audiences age 5-11.	26	Ages: 7-13 and their families	2009	http://www.youtube.com/watch?v=hMPML_SbLlW	Science, Astronomy, History, Cultures, Native American History
<i>Fractal Zooms</i>	Fractal Zooms- Fractals are never-ending patterns representing algebraic equations. Once animated, these equations provide the opportunity to take audiences on a dazzling journey into infinity. All ages will love the dramatic immersive experience of zooming into patterns smaller than atoms or bigger than the universe! Also available as 9 independent clips.	25	Ages: 10 - Adult	2009	http://extranet.spitzinc.com/download/public/creativemedia/mpg_qt/Butterfly_Meltdown.mpg	Art, Music, Math
<i>Kaluoka'hina, the Enchanted Reef</i>	The Enchanted Reef- The vastness of our planet's oceans guards unimaginable secrets. One of its most precious is Kaluoka'hina, the enchanted reef whose magic protects it against humans finding it. Kaluoka'hina's colorful inhabitants have thus always lived in peace, until the volcano erupts, and the spell is broken. Now it's up to the young sawfish Jake and his paranoid pal Shorty to restore the magic of Kaluoka'hina. Their only lead: the ancient legend that tells of touching the moon. But how is a fish supposed to touch the moon? This is just one of the intriguing puzzles that Jake and Shorty have to solve on their most exciting adventure ever: the quest to save their beloved reef.	32	Grades 2-5	2005	http://vimeo.com/55132858	Reading, ELA, Life Science, Astronomy

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<i>Losing the Dark</i>	Losing the Dark- Starry skies are a vanishing treasure because light pollution is washing away our view of the cosmos. It not only threatens astronomy, it disrupts wildlife, and affects human health. The yellow glows over cities and towns are seen so clearly from space and are testament to the billions spent in wasted energy from lighting up the sky. Losing the Dark is a public service announcement and planetarium show, a collaboration of Loch Ness Productions and the International Dark-Sky Association. It introduces and illustrates some of the issues regarding light pollution, and suggests three simple actions people can take to help mitigate it. The show gives planetarium professionals a tool to help educate the public about the problems of light pollution. Planetarians are uniquely positioned to teach audiences ways we can all work together to implement responsible use of lighting.	6.5	Ages: 8 - Adult	2013	http://www.youtube.com/watch?v=UNGI0kPKwIQ	Science, Earth Science, Environmental Science, Engineering
<i>Magic Treehouse: Space Mission</i>	Space Mission- Travel with the brother-sister duo, Jack and Annie, in their Magic Tree House as they discover a note that asks them to answer a series of six questions about space. With the help of the astronomer, the Internet, an astronaut, books and the writer of the mysterious note, Jack and Annie are taken on a wondrous journey of adventure and learning. This exciting voyage will carry visitors to the planets and far out into the Universe where Jack and Annie nearly get... Well, we don't want to give it away. The adventure is just beginning!	35	Ages: 5 to 12 and their families. Older children familiar with the book series may also enjoy the show.	2010	http://www.youtube.com/watch?v=0wW8iPoFNvU	Reading, ELA, Math, Science, Astronomy, Earth Science
<i>Oasis in Space</i>	Oasis in Space- One of Spitz's most popular and widely distributed fulldome shows, <i>Oasis In Space</i> transports the audience on a startling and beautiful voyage through our universe, galaxy and solar system in search of liquid water- a key ingredient for life on Earth. With a proven, audience-tested story, a 95% viewer approval rating, and an original surround-format musical score, <i>Oasis In Space</i> will delight viewers of all ages.	24	Ages: 10 - Adult	2004	http://www.fddb.org/shows/oasis-in-space/	Science, Astronomy, Biology, Life Science, Earth Science
<i>Secrets of the Sun</i>	Secrets of the Sun- An intimate look at the role the Sun plays in the life of our Solar System. From the nuclear forces churning at the heart of the Sun to the mass ejections of solar material into surrounding space, we experience the power of the Sun and its impact on the planets and ultimately life on Earth. We trace the Sun's life cycle, going back to its beginnings and moving forward in time to its eventual death.	21	Grades 4 and up	2005		Astronomy, Science, Earth Science
<i>SpacePark360</i> (4 rides)	SpacePark360 is a 9-ride show that takes audiences on a wild immersive ride through the Solar System while recreating the experience of amusement park thrill rides- roller coasters, pendulums, inverters and more. Available in the original version or in a version featuring custom music from Geodesium.	24	Ages: 7 - Adult	2010	http://www.youtube.com/watch?v=ELi8bASXkpk	Entertainment, Astronomy

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<i>Stars</i>	Stars- Every star has a story. Some are as old as time, faint and almost forgotten. Others burn bright and end their lives in powerful explosions. New stars are created every day, born of vast clouds of gas and dust. Through every phase of their existence, stars release the energy that powers the Universe. Journey to the furthest reaches of our galaxy and experience both the awesome beauty and destructive power of STARS. Suitable for audiences of all ages, this dramatic program features the voice talent of Mark Hamill and stunning 3D animation by NSC creative at the National Space Centre in Leicester, UK. The Nashville Symphony Orchestra, conducted by Albert-George Schram, resident conductor, performed part of the original STARS soundtrack. Educational content includes stellar evolution, space exploration, the electromagnetic spectrum, and the history of astronomy.	25	Ages: 9 - Adult	2008	http://vimeo.com/3938685	Astronomy, Science, Optics, Physics, Space Exploration, History of Science
<i>Sunstruck</i>	Sunstruck- Discover the wonders of our sun, learn about its birth, how it grew to both support and disrupt life., and travel to the distant future to experience its last moments.	21	Grades 6 - 12	2015	https://youtu.be/M4Rnz9fw4hM	Astronomy, Science, Earth Science, Physical Science, Optics, Space Exploration
<i>To Space and Back</i>	To Space and Back- 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 & 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! Narrated by James May.	26	Ages: 9 - Adult	2013	http://www.youtube.com/watch?v=Q0ngXO-xlYc	Science, History, Discoveries, Engineering, Astronomy, Technology
<i>Two Small Pieces of Glass</i>	Two Small Pieces of Glass- While attending a local star party, two teenage students learn how the telescope has helped us understand our place in space and how telescopes continue to expand our understanding of the Universe. Their conversation with a local female astronomer enlightens them on the history of the telescope and the discoveries these wonderful tools have made. The students see how telescopes work and how the largest observatories in the world use these instruments to explore the mysteries of the universe. While looking through the astronomer's telescope, the students, along with the planetarium audience, explore the Galilean Moons, Saturn's rings, and spiral structure of galaxies. During their conversation with the astronomer, they also learn about the discoveries of Galileo, Huygens, Newton, Hubble and many others.	23	Grades 4 - 8	2009	http://www.youtube.com/watch?v=HUelX3MDPM	Science, Optics, Physics, Discoveries, Inventions, Astronomy, Math