

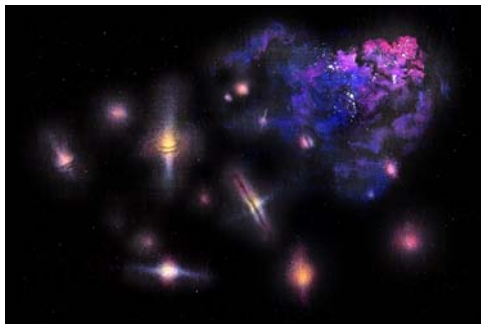
***A journey between two galaxies spans human history — and reveals the secrets of the cosmos!***

Running time: 30:00  
Grade level: 4-12 and  
general public audiences

Narrated by Michael Dorn  
Written by Carolyn Collins Petersen  
Produced by Mark C. Petersen  
Original artwork by Tim W. Kuzniar and Michael W. Carroll

A beam of light leaves a star in the Andromeda Galaxy and travels across the void of intergalactic space. For much of its journey it traverses the nearly-empty realm between galaxies. In the meantime, on a planet located in a neighboring galaxy, intelligent life evolves.

As the light speeds across the light years over the course of many centuries, the primitives on the planet form cultures and civilizations — and begin to wonder about the universe surrounding them. Their awareness of the night sky increases as the beam of light draws nearer to their planet.

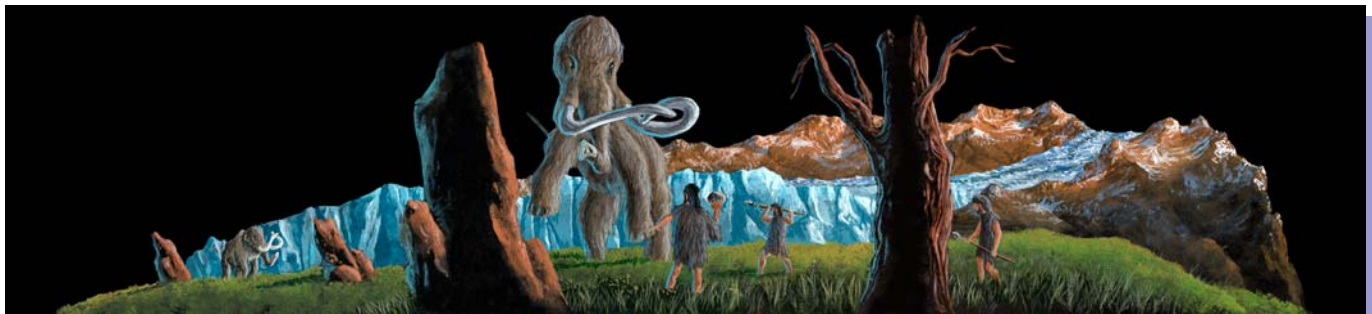


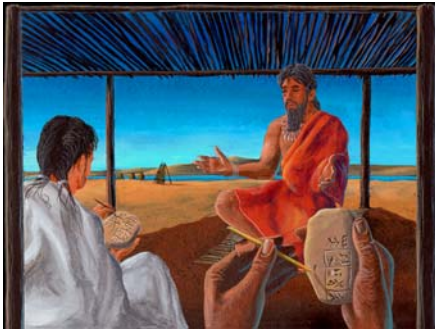
When the light reaches the Earth, some of the descendants of the early hunters have just escaped the bonds of their world's gravity, and visited the Moon. In modern times, scientific study of space helps the planet's current inhabitants use light to explore the galaxy from which it came — and beyond.



***Light Years From Andromeda***

teaches the concepts of light speed, and the light year and how astronomers use them to measure distances to some familiar celestial objects— the Moon, the Sun, the planets, nearby stars, and galaxies. The show briefly touches on the properties of light that help determine a star's age and temperature, and gives a fascinating look at how light and distance allow us to "look back" further in time as we gaze farther into space.





## Science Education Content

*Light Years from Andromeda* focuses on light, with light, the concept of light speed, and the distance measurement unit of the light-year all as tools of astronomical exploration. These concepts are woven together along with historical and cultural perceptions of the sky and help relate the information presented in the show to the lives of students, families, and the general public.

Show content is relevant in the following subject areas:

### Earth and Space Sciences:

- objects in the sky: Sun, Moon, stars, planets, galaxies, quasars, interstellar medium
- properties of stars
- creation of the universe (the Big Bang)

### Physical Science:

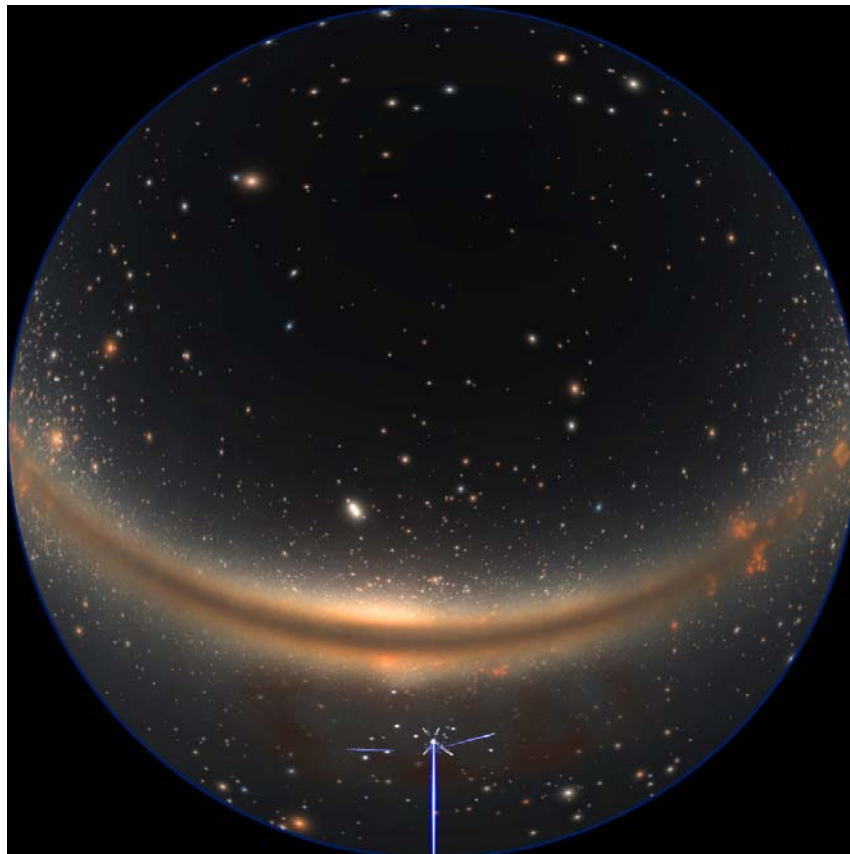
- light, light speed, light-year as a measurement unit

### Science as a human endeavor:

- early maps of the sky
- rise of scientific exploration of the universe
- missions to the Moon, solar system probes
- development of the modern science of astronomy
- early human history, cultures, and perceptions of the sky

This show adheres to principles put forth in the National Academy of Sciences' Education Standards published in 1996. For more details, visit the NAS Standards Web site at: <http://books.nap.edu/html/nse/html/index.html>.

A beam of light from the Andromeda Galaxy encounters gas and dust clouds in the Milky Way...



... just one of the ~54,000 dome master frames in this show.



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