LAFAYETTE SCIENCE MUSEUM

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Planetarium Presentations for School Groups

We are pleased to offer your students the unforgettable experience of a planetarium presentation. Programs begin at 9:10 a.m., 10:10 a.m., 11:10 a.m., and 12:10 p.m., and last 50 minutes. Presentations are for students with teachers and necessary aides such as nurse or interpreter; any additional chaperones are limited to 2 per class, if needed and if seats are available. Classes may be combined with other school groups. The planetarium seats a maximum of 80.

Louisiana Student Standards: Specific science standards and core ideas are listed below with each program description. Pre- or post-visit ELA and Math connections can be found in the Louisiana Student Standards for Science, appendix B. In addition, the planetarium is a unique and challenging environment for students of all ages to practice their ELA listening and comprehension skills. They will need to follow agreed upon rules of discussion (listening to others and taking turns speaking), confirm understanding of information presented orally (by answering questions presented to them), and will have an opportunity at the end of the presentation to ask questions themselves about the topic under discussion.

The Sky Tonight *(Grades K through 12)*

See the sky as it will be on the night of your visit! Students will learn about satellites and meteors, and how to find and identify the stars, constellations, and planets which will be visible that evening.

Performance Expectations	Disciplinary Core Ideas	Arts Content
1-ESS1-1	LE.ESS1A.a UE.ESS1A.a MS.ESS1A.a	VA-CE-E4 VA-HP-E3 VA-HP-H1, 2, 3

Space: A Place *(Grades 1 through 3)*

An introduction to space flight for younger students. Large 1/50th scale 2-D rockets will help students understand the size of space vehicles, while models will help them understand how the rockets work.

Performance Expectations	Disciplinary Core Ideas	Social Studies GLEs
2-ESS2-2 2-ESS2-3 3-PS2-2 4-ESS2-2	LE.ESS2B.a LE.ESS2C.a UE.PS2A.c	3.3.4 8.7.2

Looking for Life *(Grades 3 through 5)*

Find out how the ancients discovered the planets before the invention of the telescope, and how details about Mars were learned with telescopes and space probes. Consider how Earth's environment affects life on our planet and compare the environments of Earth, Mars, and some moons of the outer solar system. Learn about the emerging science of astrobiology, and use what you've learned about environments in the solar system to draw an imaginary being that could live at Mars or one of those outer moons.

Performance Expectations	Disciplinary Core Ideas	
K-ESS3-1 3-LS3-2 3 LS4-3 4-LS1-1	LE.LS1A.a LE.LS4D.a LE.ESS3A.a LE.ESS2A.a LE.ESS2C.a	UE.LS3A.b UE.LS4C.a UE.LS4D.a MS.LS2A.a

Sun, Moon, & Stars *(Grades 4 through 6)*

Students will learn how the movements of Earth affect where we see the sun and what we see in the night sky from month to month. They will make observations and predictions about the movements of the sun and stars, see if they are correct, and will learn how to observe these phenomena safely in the real sky. They will connect the sun's movements to the seasons and will be introduced to axial tilt as the reason for the seasons. They will also discover the moon's phases and find out how they happen through a kinetic activity.

Performance Expectations	Disciplinary Core Ideas	Social Studies GLEs
1-ESS1-2 5-ESS1-2 6-MS-ESS1-1	LE.ESS1B.a UE.ESS1B.a MS.ESS1A.a MS.ESS1B.b	2.2.1 6.3.1

Our Star, the Sun *(Grades 5 through 12)*

Find out what astronomers are learning about our closest star and how it compares with other stars, and see the most recent image of the sun. Any sunspots today?

Performance Expectations	Disciplinary Core Ideas
5-ESS1-1 HS-ESS1-1	UE.ESS1A.a MS.ESS1A.b HS.ESS1A.e HS.PS3D.c

Exploring the Planets *(Grades 4 through 8)*

Take a tour of the solar system and get a close up look at each planet, many of the larger moons, and even Pluto and the Kuiper belt. Students will also learn a bit about the history of space exploration and current and future missions by multiple space agencies. NASA images provide the most up-to-date viewing possible.

Performance Expectations	Disciplinary Core Ideas
6-MS-ESS1-3	UE.ESS2C.a MS.ESS1B.a

Finding Your Star *(Grades 4 through 8)*

Students learn how to use star maps in this highly interactive presentation. Your class will be divided into small groups and given their own star maps to keep. Each group will be assigned a constellation to find using their star maps, and then will be given an opportunity to point out their findings to the other groups in the class. Due to its highly interactive nature, this program is only for groups of 30 or fewer students.

Performance Expectations	Disciplinary Core Ideas
1-ESS1-1	LE.ESS1A.a UE.ESS1A.a MS.ESS1A.a

Rockets and Spacecraft *(Grades 4 through 8)*

This popular program looks at the history of space flight, how rockets work, and common misconceptions about space. Models of the Saturn V and Space Shuttle help students understand the Apollo moon flights and how the Shuttle worked.

Performance Expectations	Disciplinary Core Ideas	Social Studies GLEs
3-PS2-2 5-PS2-1 6-MS-PS2-2	UE.PS2A.c UE.PS2B.c MS.PS2A.b	8.7.2 WH.6.7

Fingerprinting the Stars *(Grades 7 through 12)*

Based on modern spectroscopy, the heart of modern astronomy, during the program students use diffraction gratings to observe the spectra of various gas discharge tubes and then learn how astronomers use similar observations to understand the Universe.

Performance Expectations	Disciplinary Core Ideas	Social Studies GLEs
HS-ESS1-2	HS.ESS1A.b HS.ESS1A.c HS.PS4B.d	WH.2.5