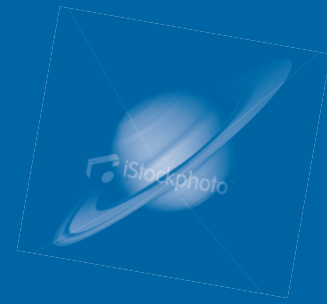




THE CINCINNATI OBSERVATORY CENTER (COC) provides cutting-edge science education in a unique historic setting. ☆ Whether you are looking for an exciting field trip, an astronomer to visit your class, or in-depth professional development, the COC delivers hands-on, inquiry-based programs that exceed academic content standards.

3489 Observatory Place
Cincinnati, OH 45208



CELESTIAL EXPLORATIONS



CINCINNATI
OBSERVATORY CENTER



WE WILL WORK ACTIVELY TO DESIGN A PROGRAM THAT IS RIGHT FOR YOUR CLASS.

Descriptions of our most popular topics are listed below. However, we can customize any program to your astronomical needs.

- ☆ **REASONS FOR THE SEASONS** – The 23.5 degree tilt of the Earth's rotational axis makes all the difference. You will discover how the resulting angle of the Sun's rays cause spring, summer, fall, and winter.
- ☆ **THE SUN** – The mass and energy of the Sun are astronomical. Using a portable solar projector, your class can safely examine sunspots and other solar activity. They will also learn about the Sun's turbulent nature, space weather, and how it affects the Earth.
- ☆ **MOON PHASES AND ECLIPSES** – Moon phases are perhaps the most difficult astronomical phenomenon for students to understand. With the assistance of a half-painted soccer ball, 30 moons on a stick, a 150-watt light bulb, and some great simulation software, your students' are sure to become luna-tics.
- ☆ **THE PLANETS AND THEIR ORBITS** – Our knowledge of the solar system changes constantly, and we can keep you up to date. Utilizing the latest images from NASA, we will explore each planet's path around the Sun as well as the vast canyons on Mars, the planet-sized hurricane on Jupiter, and the elegant rings of Saturn.
- ☆ **DAY, MONTH, YEAR, CYCLES** – This program will make your head spin. At Cincinnati's latitude, we rotate around the Earth's axis at 770 mph and revolve around the Sun at 66,000 mph. This constant movement provides us some very observable cycles. We will get your students up and moving – and hopefully not dizzy.



- ☆ **STARS AND CONSTELLATIONS** – There are more stars in the sky than anyone can ever count. But you'll see that finding your way around the sky is fun and informative. Combining astronomy with memorable ancient myths, this program will encourage your students to research and report on the stories behind the constellations.
- ☆ **COMETS AND METEORS** – Stuff hitting the Earth always fascinates students. We can make a comet right in your classroom and bring in actual meteorites for close inspection. Students will learn about the structure, parts, and orbits of comets and meteors while being able to touch a space rock!
- ☆ **TOUR OF THE UNIVERSE** – Rocket through space and sail among billions of stars and galaxies. This program investigates the life cycles and types of stars and galaxies, as well as the vast distances to these celestial objects. Students will discover how telescopic observations have taught us so much about our place in the Universe.
- ☆ **ALIENS** – Is anyone out there? Delve into the scientific hunt for life on other planets. How do we know there are planets orbiting other stars? How would we send a message? How would we understand their message? The truth is out there.

VISITING THE OBSERVATORY

One of the most unique astronomical institutions in the United States, the Cincinnati Observatory Center (COC) is a fully functioning 19th century observatory used daily by the public and by amateur astronomers. The main telescopes include an 11" Merz and Mahler refractor made in 1843 and a 16" Alvan Clark refractor from 1904. Centrally located in the city of Cincinnati, COC's buildings are recognized as a National Historic Landmark, and the grounds provide a serene, park-like setting.

DAYTIME VISITS:

Your students can experience astronomy during the day. See the Sun safely through the oldest telescope in the country. Students will be able to view sunspots and solar flares through white-light and hydrogen-alpha filters and walk our large-scale model of the solar system.

NIGHTTIME VISITS:

See the Moon, stars, and planets through research-quality telescopes and experience the "WOW" of astronomy.

Astronomy presentations and classroom activities are offered if weather does not permit viewing. Day and night visits include a history tour of the oldest professional observatory in America.

To schedule a program, call 513-321-5186.

Cincinnati Observatory Center
3489 Observatory Place
Cincinnati, OH 45208

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