

Star Lab Training

When:

Classes are scheduled Fall and Spring; please check your work email for updates.

Time:

4:00pm to 5:45pm

Wear comfortable clothing!

Where:

TRC room 7

1 North Gilmer St.

Cartersville GA 30120

Register:

770.387.1103

or

info@bartowtrc.org

Cost: NONE!

Instructor: Kim Martin

Maximum class size is 15 adults

NOT SURE WHAT THIS IS ALL ABOUT?

<http://starlab.com/classic-starlab/curriculum/>

<https://www.youtube.com/watch?v=GNQE11Y2tUM&t=8s>

(part 1-6)

Manuals available for each cylinder and curriculum details

Participate in the training class and you may check out the Star Lab for your school/classroom.

Training includes set up and take down of the Star Lab.

We will briefly cover *The Milky Way, Constellations, Native American Mythology, Greek Mythology, Earth, Plate Tectonics, Weather, Lewis & Clark Celestial Navigation and Biological Cell.*

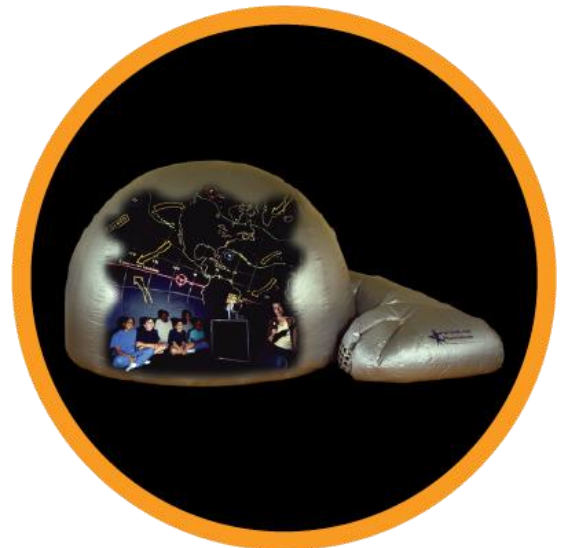
Give Your Students a Memory
That Will Last a Lifetime

You're teaching, they're engaged.

Choose your cylinders to enhance the lesson!

- Earth Science: weather, plate tectonics, earth
- Astronomy: moon, constellations, Milky Way Starfield
- General Science: Biological cell
- Mythology: Greek Mythology, Native American Mythology
- Social Studies: Lewis and Clark Celestial Navigation

All participants will receive a letter of completion; your administrator will determine if the credit is applicable to your certification.



StarLab Cylinders Available for checkout

Biological Cell: This one million-time magnification of a composite cell demonstrates the workings of a one-celled organism. The processes of cellular digestion and reproduction are illustrated in vivid color. Endoplasmic reticulum, ribosomes, mitochondria, the Golgi complex, secretion vesicle, lysosomes, pinocytotic vesicles, microvilli, cilia, chromosomes and nucleolus are clearly displayed. An identification key is conveniently located on the cylinder. An ideal introduction to cellular biology.

Constellations: This cylinder features the 48 major constellations, the ecliptic and celestial equator. Applications: Star identification, planetary positions and the path of the sun and moon. Useful at all grade levels to facilitate rapid orientation for outdoor observations.

Earth: This cylinder is a projection of the entire terrestrial globe including all of the earth's land and ocean masses. Longitude is displayed at intervals of 15°, latitude is displayed every 10°, with a scale of projection of 1 inch = 40 miles. It is superior to flat maps in its total elimination of distortion, and is useful for studying weather patterns, ocean currents, time zones, social studies and current events. For the study of geography, earth science, geology and navigation.

Greek Mythology: Forty-five classical Greek constellations are featured on a background of 3000 stars, making this cylinder an excellent introductory tool for locating constellations. A convenient identification key includes folk legends about each constellation. For astronomy, mythology, art, literature, social studies and ancient history for all grade levels.

Lewis & Clark Celestial Navigation: In celebration of the 200th anniversary of the expedition of Lewis & Clark, this cylinder projects the Celestial Equator, the lines of right ascension and declination, the ecliptic, the zodiacal constellations, the Precession Circle and constellations, and the North Celestial Pole and shows either the position of the sun at the equinoxes and the solstices, or the moon phases (new, full or quarters) in relation to the sun. Twenty-six student activities demonstrate how Lewis and Clark used celestial navigation to determine their location in the uncharted territory of the mid and northwest United States.

Milky Way Starfield: The Starfield Cylinder now includes a depiction of the Milky Way based on the beautiful and highly accurate all-sky panoramas created by Dr. Axel Mellinger. Betelgeuse, Rigel, Antares, Spica, Arcturus, Capella and Pollux appear in full color. Twelve apertures show the position of the sun throughout the year.

Moon: The Moon Cylinder, in conjunction with this curriculum guide, will help you teach your students about phases, eclipses, the Moon's motion through the heavens, and features on the Moon's surface. You will be able to examine and compare sites of the Apollo Moon landings, compare the near and far sides of the lunar surface, and distinguish between such surface features as highlands, maria, craters, mountains, ejecta rays, and rilles. The cylinder comes with a masking cover, which can be used to obscure parts of the cylinder from view, thus keeping your students on task. With the phase identification activity, the mask is designed to allow viewing of only one phase at a time. This allows you to unveil the correct phase once your students' phase predictions have been cast.

Native American Mythology: This cylinder includes colorful outlines of figures from Native American folklore such as Long Sash, the Great Bear, First Man and Woman, Spider God and many others. An identification key contains legends drawn from the Navajo, Shoshoni, Blackfoot, Cherokee, Tewa, Hopi and Algonquin tribes. Excellent for use with K-6 students studying astronomy, social studies or language arts.

Plate Tectonics: This map shows active ridges, faults, spreading centers and volcanic activity over the past 1 million years. Identification keys are clearly visible, making earth science instruction at junior high through college levels easy to illustrate. For earth science and geology.

Weather: The Weather cylinder depicts the earth's atmospheric circulation patterns including location of the wind systems and jet streams, as well as high and low air pressure masses. This colorful cylinder, in conjunction with *A Current Affair*, a 20-page curriculum booklet by Gary D. Kratzer, enables students to interactively explore pressure systems, storm systems, longitude and latitude coordinate plotting and other global weather phenomena. Students can even investigate the significance of the wind systems on the routes of early explorers and learn how the jet streams influenced military decisions during World War II. Adds a new dimension to teaching earth science, weather patterns, and the age of exploration, navigation and history.



StarLab Planetarium Checkout Sheet

Teacher* _____

**This teacher has been trained and is responsible for the care and return of the StarLab*

School _____

Email _____

Reserved for Checkout: Date/Time _____

Date/Time of Pickup _____

Date/Time of Return _____

Equipment Checked Out: (initial)	Cylinders Checked Out: (initial)
StarLab	Biological Cell
Fan	Constellations
Projector	Earth
Carry Case	Greek Mythology
	Lewis Clark Celestial Navigation
	Milky Way Starfield
	Moon
	Native American Mythology
	Plate Tectonic
	Weather
Picked up by:	Phone:
Returned by:	Phone:



StarLab Planetarium Return Checklist

Please update us so the next educator has an easy set-up

1. Are the batteries working in the flashlight?
2. Are the batteries working in the laser pointer?
3. Did you remember the extension cord and fan?
4. Did you have to replace the projection bulb?
5. Did any equipment malfunction? Please explain.
6. Does anything need attention or repair?