



School Program Catalog
And
Visit Planner
2010-2011



How to Schedule Your Visit

(please call at least 2 weeks in advance)

Call 606-886-7398 or 606-889-8260

Please have the following information on hand when you call:

1. Your contact information (school name, phone #, fax #, grade level and number of students).
2. When you would like to visit (date, arrival and departure times).
3. What programs you would like to do (the exhibit, specific planetarium and/or classroom programs).
4. Number of chaperones (all teachers, bus drivers and up to one chaperone for every 10 students receive free admission to the Science Center during your visits— Additional adults will be charged a fee).
5. How you will make your payment (Please make one group payment for everyone from your school— students plus extra chaperones. The Science Center accepts school checks, school PO's, major credit cards, personal checks or cash—No envelopes with loose change please!).

Cancellation & Late Arrival Policies

Reservations may be canceled up to **48 hours** prior to reserved date with no penalty. Cancellations less than 48 hours prior and no-shows will be charged a **\$50** cancellation fee. There will be no penalty for weather related cancellations. Please keep in mind that the science center follows the BSCTC schedule. If they are on a delay or closed due to weather, the center will also be opening late or closed. If you are unsure of our schedule, call the center before leaving your school.

Please arrive on time. The Science Center schedules multiple school groups and if your class is late we may not be able to provide all of your programs.

Planetarium Programs

Planetarium shows last from 20-60 minutes. Due to Fire Marshal regulations, seating is limited to a total of **85** students, teachers and chaperones.

Bad Astronomy

Recorded Program-- Learn some of the myths associated with astronomy including why a lot of what you see in movies is not possible!

Blown Away: The Wild World of Weather

Recorded Program-- Experience the wild world of weather as never before as you take a look at the incredible weather on our planet Earth.

Colors of the World

Laser Show-- With authentic instruments and sounds, students will explore music from many cultures.

Cowboy Astronomer

Recorded Program-- Sit around a campfire under Western skies in this laser-enhanced star program.

Hotter Than Blue

Recorded Program-- This show is high-energy-literally! Discover what x-rays and gamma rays, high energy forms of light, can tell us about the universe.

Hubble Vision

Recorded Program-- Explore the universe through the images produced by the Hubble telescope.

Journey to the Edge of Space and Time

Live Program-- Journey to super massive black holes, giant galaxy clusters, the universe's earliest moments and more!

Peter and the Wolf

Laser Show-- An entertaining story that teaches children of all ages about music and the instruments of the orchestra.

Point of No Return

Recorded Program-- Delve into the story of quasars, the most powerful steady source of energy in the universe.

The Planets

Recorded Program-- Take an exciting, fact filled tour of the Solar System narrated by Kate Mulgrew (of *Star Trek: Voyager*). Look at many different aspects of each planet as well as Solar System formation and extra-solar planets.

The Sky in Motion

Live Program-- A guided tour through the current sky to discover how the sky changes throughout the day and night and what's up right now.

Skywatchers of Africa

Recorded program-- Observe the night skies through the eyes of the people of Africa and learn how they used their astronomical observations to help them in their daily as well as spiritual lives.

Sky Quest

Recorded Program-- Come along on one young woman's journey to becoming an astronomer and share in her growing fascination with the stars. Narrated by Roxann Dawson of *Star Trek: Voyager*.

Planetarium Programs (cont)

Solar System Adventure

Live Program– Explore the solar system from your backyard to the sun and beyond, then to the frozen outer reaches at the edge of the solar system. Along the way, you’ll visit each planet to find out what they are like.

Star of Bethlehem

Runs from November through December

Recorded Program– Combine astronomy, history and literature to find clues to one of history’s great mysteries.

Stories in the Sky

Live Program and Laser Show– A live presentation highlighting constellations as seen by many different cultures, followed by an exciting laser show either “*Legends of the Night Sky: Perseus and Andromeda*” or “*Legend of the Night Sky: Orion*”. (teacher’s choice)

WSKY: Radio Station of the Stars!

Recorded Program– Experience talk radio of the future as Dr. Cosmos answers questions on everything from shooting stars to black holes. Cruise the cosmos while listening to a crazy traffic report, wacky weather forecast and a couple of chart topping tunes.

Laser Light Shows

Laser shows last from 20-55 minutes. Due to Fire Marshal regulations, seating is limited to a total of **85** students, teachers and chaperones.

Beatles

Music from the Beatles

Fright Light

Halloween themed music

Holidays

Christmas themed music

Hypnotica

Music from Fat Boy Slim, The Chemical Brothers, Bjork and others

Laser Hip Hop

Music from Black Eyed Peas, Beastie Boys, Kanye West, Timbaland and others. (Some songs contain language that may be inappropriate for students).

Laser Magic

Music from Shania Twain, Will Smith, Celine Dion, No Doubt and more.

Laser Mania

Music from Santana, Will Smith, Weird Al Yankovic, Beck and more.

Laseropolis

Music from Alanis Morissette, the B-52’s, Boston, REM and more.

Laser Pop

Music from N’Sync, Pink, Sting, 3 Doors down and more.

Laser Pop 2008

Music from Gnarls Barkley, Nelly Furtado, Maroon 5 and others.

Laser Light Shows (cont)

Laser Retro

Music from the Police, Duran Duran, the Cure, INXS and more.

Laser Rock

Music from Santana, Foo Fighters, U2, Nickelback and more.

Laser Praise

Music from TobaMac, U2, The Doobie Brothers, Stephen Curtis Chapman and more.

Laser Spirit

Music from U2, Madonna, Kansas, Lee Greenwood and more.

Laser Vinyl

Music from Van Halen, Queen, Kiss, Aerosmith and more.

Laser X

Music from Rage Against the Machine, Foo Fighters, Alice in Chains, White Zombie and more.

Led Zeppelin

Music from the band Led Zeppelin.

Metallica

Music from the band Metallica.

Pink Floyd's Dark Side of the Moon

Music from Pink Floyd's Dark Side of the Moon.

Pink Floyd's The Wall

Music from Pink Floyd's The Wall.

U2

Music from the band U2.

Classroom Programs

Classroom Programs last 20-45 minutes.
Maximum 35 students.

Cartesian Divers

How creative can you get while you learn about pressure and volume of the air and water? To find out, come and create a diver you can take home with you.

Please Note: Students participating in this program must bring an empty 2-liter bottle with lid

Cells of All Kinds

The microscope, a basic tool of the biologist, can be used to see a world that no person could have ever seen before. Learn how to use a microscope and see cells from different organisms.

Please Note: Program is available on Tuesday and Thursday mornings only.

Discover the Rainbow

Is white light only white? Are we really seeing the colors we think we are? Learn about the color spectrum with several hands-on experiments.

Genes in a Bottle

Learn about how genetics makes us unique. Extract DNA from your cheek cells to create a necklace with your own DNA.

Please Note: This program is for 7th grade and up. There is an additional \$1.50 per student fee to cover consumables.

Mystery Planet

Discover how scientists explore another planet without actually going there and use the same techniques to find out what the mystery planet is like.

Classroom Programs (cont)

Photosynthesis Fundamentals

How do plants make their own food? Students will conduct experiments in order to learn what nutrients and energy are required for plant photosynthesis.

Please Note: Program is available on Tuesday and Thursday mornings only.

Phun Physics

Explore everyday physics through these fun, hands-on activities.

Play-Doh Planets

Use play-doh to learn the scale size of the planets in this fun hands-on activity.

Population Ecology

Learn how populations counts are estimated using a capture-recapture technique. Learn about natural selection using a model of the peppered moth.

Predator vs. Prey

See how population size changes through natural selection by becoming a predator. Learn how adaptations help to ensure survival.

Rock and Mineral Identification

Become a geologist and learn the simple techniques for identifying rocks and minerals including testing for hardness and streak color .

The Solar System

Younger students can take a trip through space the this activity. Students will learn about each planet by building their own Solar System Panel that they can take with them.

Please note: There is an extra \$1.50 charge per student to cover consumables.

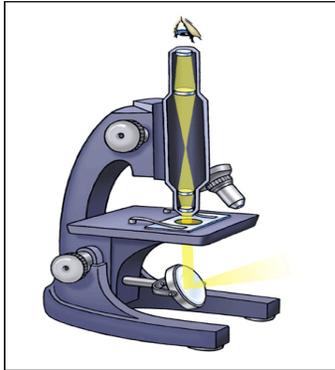
Live Animal Program New for 2010-2011

New for the 2010-2011 school year, this program lets students get up close to the animals of the science center. We have a blue and gold macaw, a hedgehog, a blue-tongued skink, poison dart frogs, a corn snake, Madagascar hissing roaches, giant African millipedes and glo-fish. Depending on the age group, the animals will also be used to teach about ecology, habitat destruction, predator vs. prey and nutrition.



Special Classroom Programs for High School Students

These special programs are offered on Fridays from 9:00-12:00 only. The cost is \$9.00 per student and includes a planetarium show. Our capacity for these programs is 30 students. The Human Anatomy and Physiology program may also be conducted as an outreach program and brought to your school.



DNA Fingerprinting/Electrophoresis

What is the structure of DNA? How can the techniques of using restriction enzymes and electrophoresis be used to solve crimes? Come and develop your CSI skills.

Genes in a Bottle

Students collect and isolate DNA from their own cells. This program is similar to the program available to elementary and middle school but uses enzymes and additional biochemistry techniques.

Human Anatomy and Physiology

Learn about the heart and blood by performing a heart dissection and blood typing or learn about kidney function with dissections and urinalysis experiments.

Microbiology

Isolate and culture *E. coli* and *S. aureus* using differential and selective media and gram stain. Conduct antibiotic susceptibility testing and test water samples.

Please note: This program requires you to come to the science center on 2 consecutive Fridays but you will only pay one fee.

Polymerase Chain Reaction

Learn the DNA amplification process used in forensic science and genetic studies.

Outreach Programs

Can't make it to the science center? The following programs are available to bring to your school. The cost is \$75.00 per hour/class period with a maximum of 30 students per class. Two programs minimum are required. There is a maximum of four programs per day. These programs are available within our five county service area (Pike, Floyd, Johnson, Martin and Magoffin Counties). Please call for pricing/availability outside of these 5 counties.

Cartesian Divers

How creative can you get while you learn about pressure and volume of the air and water? To find out, come and create a diver you can take home with you.

(Students participating in this program must bring an empty 2-liter bottle with lid)

Discover the Rainbow

Is white light only white? Are we really seeing the colors we think we are? Learn about the color spectrum with several hands-on experiments.

Human Anatomy and Physiology

Learn about the heart and blood by performing a heart dissection and blood typing or learn about kidney function with dissections and urinalysis experiments.

Please note: High School Only– There is an extra \$3.00 charge per student to cover consumables.

Mystery Planet

Discover how scientists explore another planet without actually going there and use the same techniques to find out what the mystery planet is like.

Phun Physics

Explore everyday physics through these fun, hands-on activities.

Play-Doh Planets

Use play-doh to learn the scale size of the planets in this fun hands-on activity.

Rock and Mineral Identification

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The Solar System

Younger students can take a trip through space the this activity. Students will learn about each planet by building their own Solar System Panel that they can take with them.

Please note: There is an extra \$1.50 charge per student to cover consumables.

School Admission Rates

Center Programs

Planetarium-Exhibit-Classroom
Maximum total of 85 students and adults in planetarium.

	One Program	Two Programs	Three Programs
Student	\$3.50	\$6.00	\$9.00
Teachers and Chaperones (1 Per 10 Students)	Free	Free	Free
Bus Drivers	Free	Free	Free
Additional Adults	\$3.50	\$6.00	\$6.00

Outreach Programs

Maximum of 30 students per program
Programs last 20-45 minutes each.
Two Programs minimum and four programs maximum

\$75.00 per program within our five county service area
(Pike, Floyd, Johnson, Martin and Magoffin Counties)

Please call for pricing if you are located outside of these 5 counties.

Gift Shop

Please tell your students to bring money for the gift shop if you plan to allow them to shop.
We have items priced as low 25 cents.

The Gift Shop offers items that will excite your budding scientist and reinforce the learning experience at the science center.

Items range from educational books and activities, exotic imports from around the world, to things that are just plain fun.