

Abraham Clark High School

122 East 6th Ave
Roselle, NJ 07023
Diana Loboza
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Public high school.

Program Title: Health Careers

Description: Health Careers: To introduce students to the various areas in the health field, teach them medical terminology and related anatomy.

Disciplines: Career Ed, Science

NJ Standards: 9.1,9.2

Grade Levels: 9, 10, 11, 12

Fee:

Availability: By Individual Request

Connection Type: IP

Battleship New Jersey

62 Battleship Place
Camden, NJ 08103
Mike Flynn
Phone: 856-966-1652 222 Fax: 856-966-3131
Email: education@battleshipnewjersey.org Web: <http://www.battleshipnewjersey.org>

The Battleship New Jersey, our nation's most decorated battleship, is located along the Camden Waterfront in Camden, New Jersey. American history comes alive aboard this 887 foot long, 45,000 ton memorial. A visit to the "Big J" in person or via videoconferencing will provide an educational experience that will long be remembered.

Program Title: Buoyancy and Battleships – How Boats Float

Description: Students will learn about the physical principals involved in keeping a 45,000 ton battleship afloat. Buoyancy, equilibrium, displacement, and density will all be explained through hands on activities that will have all age groups entertained and engaged. They will analyze why a steel ship doesn't sink and how submarines dive and return to the surface.

Disciplines: Science, Math, Social Studies, Technology/Information Science

NJ Standards: 4.1, 4.2, 5.1, 5.7, 6.4, 8.2

Grade Levels: 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$125.00

Availability: By Individual Request

Connection Type: IP

Program Title: How Energy Changes Form

Description: How does water taken on the ship convert to power to make it run? Students will discover the scientific principles behind these activities on the battleship. Sea water was used for all of the basic energy needs of the sailors- from heating and cooking, to propelling the ship through the ocean. Students will experience areas of the ship which are responsible for the processes necessary for the conversion of these resources.

Disciplines: Science, Math, Technology/Information Science

NJ Standards: 5.4, 5.7, 6.4, 8.2

Grade Levels: 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$125.00

Availability: By Individual Request

Connection Type: IP

Program Title: Mechanical Advantage

Description: When a projectile weighing 1,900 lbs. needs to be moved, without the use of machinery, how is it accomplished? Through the use of simple machines, work is carried out throughout the ship on a daily basis. Students will witness actual demonstrations in the machine shop aboard the battleship. They will also have the opportunity to listen to real life examples of how these machines were used as told by the men who worked on the New Jersey.

Disciplines: Science, Math, Technology/Information Science

NJ Standards: 5.4, 5.7, 6.4, 8.2

Grade Levels: 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$125.00

Availability: By Individual Request

Connection Type: IP

Program Title: What Good is a Parabola, Anyway?

Description: Students will examine how the Battleship New Jersey aimed the 16 inch guns with the assistance of a quadratic equation. These guns are capable of firing a 2000 pound projectile up to 23 miles and landing that shell within 30 yards of the intended target. This is amazing when one realizes that the equipment used to aim the guns was designed in the 1930's before GPS, digital computers, or Radar, and is still accurate enough to be used without change today. This is all accomplished with the use of parabolas which is also applied in this class to hands-on activities such as a quarterback throwing a football or a batter hitting a baseball. A video segment which demonstrates the 16 inch guns in action, as well as a life-size replica of an actual shell (over 5ft. tall!) serve to enhance the educational experience.

Disciplines: Science, Math, Technology/Information Science

NJ Standards: 4.3, 5.3, 6.4, 8.2

Grade Levels: 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$125.00

Availability: By Individual Request

Connection Type: IP

Brian Friedlander

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Port Murray, NJ 07865
Dr. Brian Friedlander
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Dr. Brian S. Friedlander is a licensed and certified school psychologist with expertise in the area of assistive technology. Dr. Friedlander maintains an assistive technology practice, which provides assessments, workshops and individual training in the area of assistive computer technology. He is an Assistant Professor of Education at College of St. Elizabeth and an adjunct faculty member at Leslie University, where he teaches courses in educational technology. Dr. Friedlander is also the co-author of *Engaging the Resistant Child Through Computers: A Manual to Facilitate Social Emotional Learning*, Maurice J. Elias, Ph.D., Brian S. Friedlander, Ph.D and Steven E. Tobias, Psy.D; New York: National Professional Resources, 2001. Dr. Friedlander is featured in the video: *Assistive Technology A Way to Differentiate Instruction for Students with Disabilities* which is available at www.assistivetek.com. He is also the publisher of *Inclusion Times*, a nationally distributed special education newsletter which is published by AssistiveTek, LLC. He also moderates the Assistive Technology eGroup which can be accessed by going to <http://groups.yahoo.com/group/attechnology>. Dr. Friedlander is a frequent presenter on the topic of assistive technology at National and State conferences. Dr. Friedlander can be reached at brian@assistivetek.com.

Program Title: Differentiated Reading through the Use of Assistive Technology

Description: In this workshop participants will learn how they can use a variety of assistive technology tools to help differentiate reading instruction in the classroom. With reading disabilities on the rise in the classroom, it is important for teachers to learn about tools that will allow their students access to the material that is found in the books that they are using. Participants will have the opportunity to learn about a variety of text to speech applications and other reading technologies that will allow them to differentiate your reading instruction. Participants will find out how electronic texts can be acquired and how to bring text into the computer so that it can be accessed by students. Participants will learn about resources on the Internet to access electronic books.

Disciplines: Cross-curricular, Language Arts, Social Studies, Special Needs, Science

NJ Standards:

Grade Levels: Teachers

Fee: \$100.00

Availability:

Connection Type: IP
Desktop VC

Bronx Zoo

Wildlife Conservation Society/Distance Learning

2300 Southern Boulevard

Bronx, NY 10460

Erica Sopha

Phone: 718-741-1693 Fax: 718-733-2921

Email: distancelearning@wcs.org Web: <http://www.bronxzoo.com/distancelearning>

With more than 4,000 animals and award-winning cutting-edge exhibits, the Bronx Zoo is world-renowned. It is the flagship zoo in the world's largest system of urban wildlife parks. The zoo is managed and headquarters to the Wildlife Conservation Society.

Program Title: Animal Colors

Description: This appealing program capitalizes on children's natural curiosity by engaging them in observation and deduction. Using visuals, games, and live animals, students will explore the role that color plays in animal survival. Students will learn that an animal's color may help it to attract a mate, to warn off other animals, and to hide from other animals.

Disciplines: Science, Cross-Curricular

NJ Standards: 5.1, 5.5

Grade Levels: K, 1, 2, 3

Fee: \$180.00

Availability: By Individual Request

Connection

Type: IP

ISDN

Program Title: Awesome Adaptations

Description: If you've been to a zoo lately, you may have seen some odd-looking creatures and wondered why some animal body parts are so unusual. In this program students will uncover the mystery of land animals' feet. Adaptation, a challenging yet essential concept, becomes clear in this program. Understanding how physical adaptations are related to the environment will lead students to additional insights, such as why an animal cannot survive when its habitat is destroyed.

Disciplines: Science, Cross-Curricular

NJ Standards: 5.1, 5.5

Grade Levels: 5, 6, 7, 8

Fee: \$180.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: Food Webs

Description: Each individual species is concerned with obtaining energy - energy to keep going, energy to grow, energy to reproduce, energy for survival. Starting with analyzing their own breakfast, students examine the flow of energy in living systems as represented in food chains and webs. Students discover the role of producers, consumers, herbivores, carnivores, and omnivores, as they build an actual food web.

Disciplines: Science, Cross-Curricular

NJ Standards: 5.1, 5.5

Grade Levels: 4, 5, 6

Fee: \$180.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: Leaping Lemurs! Conservation on the Edge

Description: Take your students to the heart of Madagascar. Visit diverse habitats and explore the relationships between lemurs and their environments. Live cameras will transport your class to the Bronx Zoo's new Madagascar! exhibit, where students will observe lemurs, fossas, and a ring-tailed mongoose, and make decisions on how to best protect them and their native habitats.

Disciplines: Science, Social Studies, Career Ed, Cross-Curricular

NJ Standards: 5.5

Grade Levels: 6, 7, 8

Fee: \$180.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: Lemur Watch!

Description: "Bring your class to Madagascar! Live cameras will transport your students to the Bronx Zoo's new *Madagascar!* exhibit, where they will explore two ecosystems: the dry spiny forest and the Masoala rainforest. Students will investigate the relationships between these environments and the lemurs that inhabit them. Based on their findings, students must decide how to protect these threatened and endangered primates."

Disciplines: Science, Social Studies

NJ Standards: 5.1, 5.2, 5.5

Grade Levels: K, 1, 2, 3, 4

Fee: \$180.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: Madagascar, Conserving Biodiversity

Description: How do scientists protect the future of a species? Students will answer this question as they explore the diverse world of lemurs at the Bronx Zoo's new Madagascar! exhibit. Live cameras will transport your class to our lemur exhibits, where students will explore the world of biodiversity. Through observation and classroom activities, students will learn what it takes to ensure a future for lemurs. This program has a strong focus on the role of genetics and geography in wildlife conservation, and includes visiting our fossa and ring-tailed mongoose exhibits.

Disciplines: Math, Science, Social Studies, Career Ed, Cross-Curricular

NJ Standards: 5.5, 5.10

Grade Levels: 9, 10, 11, 12

Fee: \$180.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: Moves & Meals

Description: There seems to be no end to the ways in which animals move. Some slither, swim, hop, fly, run, crawl, and swing. In this lesson students explore the many different ways animals move about in order to find their food and to avoid becoming someone else's food!

Disciplines: Cross-Curricular, Science

NJ Standards: 5.1, 5.5

Grade Levels: K, 1, 2, 3

Fee: \$180.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: Size & Shape

Description: Why is a ferret long and thin? Youngsters consider this and other questions about how an animal's size and shape are related to its way of life. By observing a variety of animals, students discover some fundamental concepts about how size and shape help an animal survive. Students also draw conclusions about where an animal lives and what it eats.

Disciplines: Math, Science, Cross-Curricular

NJ Standards: 5.1, 5.5

Grade Levels: K, 1

Fee: \$180.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Camden Children's Garden

3 Riverside Drive
Camden, NJ 08103
Garden Educator
Phone: 856-365-8733 Fax: 856-365-9750
Email: education@camdenchildrensgarden.org Web: <http://www.camdenchildrensgarden.org>

The Camden Children's Garden Education Program Distance Learning and On-Site lessons follow the NJ Department of Education Core Curriculum Content Standards and the American Association for the Advancement of Science Benchmarks for Science Literacy.

Note: The Garden connects via ISDN. Bridging is available for an additional fee.

Program Title: A Leaf of a Different Color

Description: Why do leaves change color in the fall? Follow a leaf from beneath the bud in winter to a mulch pile the following fall. This class can be adapted to specific grade levels at the request of a teacher.

Disciplines: Science

NJ Standards: 5.1, 5.5, 5.6, 5.10

Grade Levels: K, 1, 2, 3, 4

Fee: \$55.00 - \$80.00

Availability: By Individual Request

Connection Type: ISDN

Program Title: Are You My Mother?

Description: Explore a wide variety of seeds. Touch and sort the seeds by color, size, and shape. What is the largest and smallest seed? Match a seed to the plant it produces. For our on-site audience, plant a seed and take it home. Length: 30 minutes
Appropriate for grades: K-2.

Disciplines: Science

NJ Standards: 5.1, 5.3, 5.5, 5.6, 5.10, 6.6

Grade Levels: K, 1, 2

Fee: \$55.00 - \$80.00

Availability: By Individual Request

Connection Type: ISDN

Program Title: Ben Franklin: Scientist and Innovator

Description: Ben Franklin was a man who wore many hats: printer, ambassador, writer, patriot. But one title he relished was scientist. Learn about his discoveries and how he used them for the betterment of society.

Disciplines: Science, Social Studies

NJ Standards: 5.1, 5.2, 5.4, 5.6, 5.7, 6.2, 6.4

Grade Levels: 3, 4, 5, 6

Fee: \$55.00 - \$80.00

Availability: By Individual Request

Connection Type: ISDN

Program Title: Birds of a Feather

Description: Birds are very interesting animals. Learn how different species of birds have adapted to survive in the environments in which they are found. This class can be adapted to specific grade levels at the request of a teacher.

Disciplines: Science

NJ Standards: 5.1, 5.5, 5.10

Grade Levels: K, 1, 2, 3, 4, 5, 6, 7, 8

Fee: \$55.00 - \$80.00

Availability: By Individual Request

Connection Type: ISDN

Program Title: Bountiful Biodiversity

Description: Biodiversity affects our lives every day. What is biodiversity and why is it important to us? This class can be adapted to specific grade levels at the request of a teacher.

Disciplines: Science

NJ Standards: 5.2, 5.5, 5.8, 5.10, 6.1, 6.2

Grade Levels: K, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$55.00 - \$80.00

Availability: By Individual Request

Connection Type: ISDN

Program Title: Bouquet for Butterflies

Description: Why are some flowers very special for butterflies while other flowers have very few visitors? Take a closer look at pollination and who pollinates what flower? Some flowers have different shapes to welcome some pollinators while shutting out the competition. Length: 45 minutes

Disciplines: Science

NJ Standards: 5.1, 5.3, 5.5, 5.10

Grade Levels: 5, 6

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Butterfly Habits

Description: What makes a butterfly an insect? How do they protect themselves? Where do they go in the winter? Learn about the interesting life cycle of butterflies and the ways evolution has helped them protect themselves from becoming someone else's lunch. Length: 45 minutes

Appropriate for grades: 3-4.

Disciplines: Science

NJ Standards: 5.1, 5.5, 5.10, 6.6

Grade Levels: 3, 4

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Carnivorous Plants

Description: Did you know that some plants eat insects? Learn where these plants live and why they need the extra nutrition. This class can be adapted to specific grade levels at the request of a teacher.

Disciplines: Science

NJ Standards: 5.1, 5.5, 5.10

Grade Levels: 3, 4, 5, 6, 7, 8

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Chocolate and Vanilla

Description: Ever wonder where these fabulous flavors come from? Explore the intriguing food web and processes that bring us two of the most delectable food products to our homes. This class can be adapted to specific grade levels at the request of a teacher.

Disciplines: Science

NJ Standards: 5.5, 5.8, 5.10, 6.1, 6.2, 6.3, 6.5, 6.6.

Grade Levels: K, 1, 2, 3, 4, 5, 6, 7, 8

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: DNA Typing

Description: How can the police discover which suspect is guilty of the crime committed with just a sample of saliva? Learn about DNA and how it can be used in forensic science.

Length: 45 mins

Disciplines: Science

NJ Standards: 5.1, 5.2, 5.4, 5.5

Grade Levels: 7, 8, 9, 10, 11, 12

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Genetics: Mendel's Peas

Description: Discover dominant and recessive traits among yourselves, then study peas. Figure it all out on a Punnett Square. Length: 45 minutes

Disciplines: Science, Math

NJ Standards: 4.4, 5.1, 5.2, 5.3, 5.4, 5.5

Grade Levels: 7, 8, 9, 10, 11, 12

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Germination

Description: Have you ever looked inside of a seed? Compare and contrast different types of seeds by their leaf structure and learn the function of each part. Illustrate the plant life cycle.

Length: 45 minutes

Disciplines: Science

NJ Standards: 5.1, 5.5, 5.10

Grade Levels: 5, 6

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Grasses for the Masses

Description: Can you name four grasses that we eat? Learn about the importance of grains to all cultures around the world. This class can be adapted to specific grade levels at the request of a teacher.

Disciplines: Science, Social Studies

NJ Standards: 5.1, 5.2, 5.4, 5.5, 5.10, 6.1, 6.2, 6.6

Grade Levels: 5, 6, 7, 8

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Great Migrations-It's a Small World

Description: Many species of animals travel thousands of miles a year to and from far away lands as part of a ritual that has gone on for millennia. Learn the importance of protecting our one Earth and how animals know no borders.

Disciplines: Science, Social Studies

NJ Standards: 5.4, 5.5, 5.10, 6.2, 6.6

Grade Levels: 5, 6, 7, 8

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Have Seed, Will Travel

Description: Check out how and why seeds travel from their parents. Some plants hitchhike, while some blow in the wind. Can you guess which seeds float? How do animals help seeds travel? For our on-site audience, plant a seed in an “ecopot”, and then take it home.

Length: 45 minutes

Appropriate for grades: 3-4.

Disciplines: Science

NJ Standards: 5.1, 5.5, 5.10, 6.6

Grade Levels: 3, 4

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Hungry, Hungry Caterpillar

Description: Did you ever wonder what a caterpillar does in a garden? Join us and get the answers to your caterpillar questions. Trace the development of a butterfly from an egg to an adult. We will read and act out parts from Eric Carle’s, “The Very Hungry Caterpillar”.

Length: 30 minutes.

Appropriate for grades: K-2.

Disciplines: Science, Language Arts

NJ Standards: NJS: 3.1, 3.3, 3.4, 5.1, 5.5., 5.10

Grade Levels: K, 1, 2

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Learning from the Lorax.

Description: Learn why it is important to conserve natural resources. We will read Dr. Seuss's "The Lorax" and discuss the effects of deforestation. This class can be adapted to specific grade levels at the request of a teacher.

Disciplines: Science, Language Arts

NJ Standards: 3.1, 3.3, 3.4, 5.1, 5.4, 5.5, 5.8, 5.10, 6.1, 6.2

Grade Levels: 3, 4, 5, 6, 7, 8

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Let it Rot!

Description: Take a look at recycling for your garden. Don't waste all your treasures by tossing them in the garbage; create a mini compost heap. Learn which things to add and which to avoid in a healthy compost pile, and which critters can help. Length: 45 minutes.
Appropriate for grades: 3-4.

Disciplines: Science

NJ Standards: 5.1, 5.4, 5.5, 5.6, 5.8, 5.10, 6.6.

Grade Levels: 3, 4

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Naturally Nutritious

Description: Healthy eating is important, but how do we know what to eat? Learn how the new USDA Food Pyramid can help and why What an apple a day keeps the doctor away! This class can be adapted to specific grade levels at the request of a teacher.

Disciplines: Science

NJ Standards: 2.1, 2.2, 2.6, 5.1, 5.5

Grade Levels: 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Ocean Floors~Under the Sea!

Description: Our planet is covered with water, most of it found in our vast oceans. Though we sometimes think of an ocean as one big body of water, it really is a diverse environment. Meet some of the critters that live under the sea, and the habitat they live in. This class can be adapted to specific grade levels at the request of the teacher.

Disciplines: Science

NJ Standards: 5.1, 5.2, 5.5, 5.6, 5.8, 5.10, 6.6

Grade Levels: K, 1, 2, 3, 4, 5, 6

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Photosynthesis

Description: Discover the source of life on the planet and learn how trees can transform this vital energy from the sun into food. What parts of a tree play a role in transforming the vital energy from the sun into food? Length: 45 minutes

Disciplines: Science

NJ Standards: 5.1, 5.3, 5.5, 5.6, 5.7, 5.10

Grade Levels: 5, 6

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Recipe for Soil

Description: What is going on below your feet? Take a close-up look at soil, its many components and the organisms that live in it. Create your own soil recipe, then for our on-site audience, plant a seed to take home and see if your plant likes your special concoction. Length: 30 minutes
Appropriate for grades: K-2.

Disciplines: Science

NJ Standards: 5.1, 5.5, 5.6, 5.8, 5.10

Grade Levels: K, 1, 2

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Soil Detective

Description: It's a dirty job, but someone's got to do it! Get out those test tubes and soil samplers. Check the pH and use a thermometer to determine soil temperature. Identify and classify different types of soil. Length: 45 minutes

Disciplines: Science

NJ Standards: 5.1, 5.3, 5.4, 5.5, 5.6, 5.8, 5.10

Grade Levels: 5, 6

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Tree Detective

Description: What is a tree? Did you know trees have names? How do scientists classify trees? We will look at various characteristics that help identify and classify a tree. We'll examine leaves, bark, and buds to observe more closely the differences among tree species. Length: 45 minutes
Appropriate for grades: 3-4

Disciplines: Science

NJ Standards: 5.1, 5.3, 5.5

Grade Levels: 3, 4

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Tree Homes

Description: Some scientists claim that a tree can be home to 500 creatures. What parts of a tree are used by these organisms and how are they used? Explore the many creatures that depend on trees. Length: 30 minutes
Appropriate for grades: K-2.

Disciplines: Science

NJ Standards: 5.1, 5.5, 5.8, 5.10

Grade Levels: K, 1, 2

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Tropical Rainforests~Flavors of the Forest

Description: Discover the wonders and products of the tropical rainforests. Learn why they are so important to all our lives. This class can be adapted to specific grade levels at the request of a teacher.

Disciplines: Science, Social Studies

NJ Standards: 5.5, 5.8, 5.10, 6.1, 6.2, 6.5, 6.6

Grade Levels: K, 1, 2, 3, 4, 5, 6

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Tropical Rainforests~Issues in Conservation

Description: If saving rainforests is so popular, why are we still losing so much of them today? Learn about some of the issues that make this popular cause so difficult to achieve and what you can do to help their conservation. This class can be adapted to specific grade levels at the request of a teacher.

Disciplines: Science, Social Studies

NJ Standards: 5.5, 5.8, 5.10, 6.2, 6.5, 6.6

Grade Levels: 7, 8, 9, 10, 11, 12

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Weird Weather

Description: Weather affects our every day lives, even if we do not think about it every day. Learn about atmospheric changes that cause the weather we see and feel. This class can be adapted to specific grade levels at the request of a teacher.

Disciplines: Science, Social Studies

NJ Standards: 5.1, 5.2, 5.3, 5.4, 5.6, 5.7, 5.8, 5.9, 5.10, 6.1, 6.6

Grade Levels: K, 1, 2, 3, 4, 5, 6, 7, 8

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Wetlands

Description: Explore wetlands around the Delaware River through story and pictures. Discuss the many reasons why wetlands are important. This class can be adapted to specific grade levels at the request of a teacher.

Disciplines: Science, Social Studies

NJ Standards: 5.3, 5.5, 5.7, 5.8, 5.10, 6.1, 6.2, 6.6.

Grade Levels: 3, 4, 5, 6, 7, 8

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Where's the Water?

Description: Have you ever wondered where the snow goes when it melts from the top of a mountain in the Spring? Follow a water molecule on an interesting journey that can last the life span of the Earth. This class can be adapted to specific grade levels at the request of a teacher.

Disciplines: Science, Social Studies

NJ Standards: 5.1, 5.5, 5.6, 5.7, 5.8, 5.10, 6.1, 6.2, 6.6.

Grade Levels: K, 1, 2, 3, 4, 5, 6, 7, 8

Fee: \$55.00 - \$80.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Wondrous Whales

Description: What makes whales different from dolphins? Learn how many different whales there are and what makes each species unique. This class can be adapted to specific grade levels at the request of a teacher.

Disciplines: Science

NJ Standards: 5.1, 5.4, 5.5, 5.6, 5.10, 6.1, 6.2, 6.6

Grade Levels: 3, 4, 5, 6

Fee: \$55.00 - \$80.00

Availability: By Individual Request

Connection Type: ISDN

Program Title: Yummy Plant Parts

Description: Did you know that a carrot is a root and a potato is a tuber? Learn what part of a plant your favorite vegetable comes from. This class can be adapted to specific grade levels at the request of a teacher.

Disciplines: Science

NJ Standards: 2.1, 5.1, 5.5, 5.6, 5.10

Grade Levels: K, 1, 2, 3, 4, 5, 6

Fee: \$55.00 - \$80.00

Availability: By Individual Request

Connection Type: ISDN

Cape May County Park and Zoo

4 Moore Road, DN 801
Cape May Court House, NJ 08210
Barbara Agens
Phone: 609-465-6832 Fax: 609-465-5421
Email: bagens@co.cape-may.nj.us Web: <http://www.capemaycountygov.net>

We are an AZA accredited facility that focuses on educating the public and superior animal care.

Program Title: Amazing Adaptations

Description: Adaptations are all around us! But can you see them? This up-close look at how animals have changed to better fit their environment will astound and amaze you. Note: This subject matter can be centered on a specific habitat of interest or an overview of many ecosystems.

Disciplines: Science, Social Studies, Language Arts, Fine Arts

NJ Standards: 3.3, 3.4, 5.5, 5.10, 6.6

Grade Levels: 2, 3, 4, 5, 6, 7, 8

Fee: \$50.00 - \$75.00

Availability: By Individual Request

Connection Type: ISDN

Program Title: Animal Enrichment

Description: Investigate the newest thing to hit zoos across the world. Food, smells, toys, and sounds that are created solely for the animals' enjoyment. Take a look at the many different ways we keep our animals happy and healthy through enrichment.

Disciplines: Math, Science, Social Studies, Health/PE, Character Ed, Fine Arts

NJ Standards: 3.3, 3.4, 5.5, 5.10

Grade Levels: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$50.00 - \$75.00

Availability: By Individual Request

Connection Type: ISDN

Program Title: Animal Kingdom

Description: All animals are different, whether it is in size, shape, or color. But did you know that the diversity goes more than skin deep? Discover the general differences that separate mammals, reptiles, birds, amphibians, and invertebrates.

Disciplines: Science, Social Studies, Character Ed

NJ Standards: 3.3, 3.4, 5.5, 5.10, 6.6

Grade Levels: PK, K, 1, 2, 3, 4, 5, 6

Fee: \$50.00 - \$75.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Animal Senses

Description: Animals come in all different shapes and sizes. So how do they see, smell and hear the world around them? Learn the reason behind why a snake sticks its tongue out, why a cat's eyes glow in the dark, and much more.

Disciplines: Science, Social Studies, Health/PE, Special Needs

NJ Standards: 3.3, 3.4, 5.5, 5.10

Grade Levels: PK, K, 1, 2, 3, 4, 5, 6

Fee: \$50.00 - \$75.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Bird Brains

Description: With so many different colors, beaks, and feet, birds are a truly fascinating group. Here we will take a close up look at many differences between our fine feathery friends. We will also look at why some birds can fly while others cannot.

Disciplines: Science, Social Studies, Language Arts, Fine Arts

NJ Standards: 3.3, 3.4, 4.1, 4.5, 5.5, 5.10, 6.6

Grade Levels: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$50.00 - \$75.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Cold-Blooded Creatures

Description: Reptiles and Amphibians feel cold to the touch but *why?!* Explore the wild world of what allows animals to survive when they can't keep themselves warm.

Disciplines: Science, Social Studies, Health/PE, Language Arts, Fine Arts

NJ Standards: 3.3, 3.4, 5.5, 5.8, 5.10, 6.6

Grade Levels: 2, 3, 4, 5, 6, 7, 8

Fee: \$50.00 - \$75.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Endangered Animals and the SSP

Description: The SSP, or *Species Survival Program*, is a major way zoos across the world are trying to help increase endangered animals' numbers, all the while trying to ensure the healthiest and strongest offspring possible.

Disciplines: Science, Social Studies, Health/PE, Character Ed, Language Arts, Fine Arts

NJ Standards: 3.3, 3.4, 5.5, 5.10, 6.6, 9.2

Grade Levels: 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$50.00 - \$75.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Exhibit Design

Description: Do you know the *four* essential requirements to support life? Do you know what it takes to keep an animal from escaping? Take a look into what we do for our animals at the zoo in order to keep them happy, healthy and safe.

Disciplines: Math, Science, Social Studies, Health/PE, Character Ed, Fine Arts, Language Arts

NJ Standards: 3.3, 3.4, 4.1, 4.2, 4.5, 5.5, 5.10

Grade Levels: PK, K, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$50.00 - \$75.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Fact or Fiction

Description: Are snakes *slimy*? Do opossums *really* hang upside down by their tails? Uncover the facts from the fiction as we expose the myths of the animal kingdom.

Disciplines: Science, Social Studies, Character Ed, Language Arts

NJ Standards: 3.3, 3.4, 5.5, 5.10, 9.2

Grade Levels: PK, K, 1, 2, 3, 4, 5, 6, 7, 8

Fee: \$50.00 - \$75.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Fur, Feathers, Scales and Slime

Description: Animals are covered by many different types of skin. We will look at why snakes have to shed their skin and how a frog breathes through its skin. No matter where the animal lives, or what it does they all have some type of skin.

Disciplines: Science, Social Studies, Character Ed, Special Needs, Language Arts, Fine Arts

NJ Standards: 3.3, 3.4, 5.5, 5.8, 5.10, 6.6

Grade Levels: PK, K, 1, 2, 3, 4, 5, 6

Fee: \$50.00 - \$75.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Habitats

Description: The earth is covered by multiple habitats and ecosystems. Together we take a closer look into what makes each environment different and how animals survive in their specific *niche*.

Disciplines: Science, Social Studies, Health/PE, Career Ed, Language Arts

NJ Standards: 3.3, 3.4, 5.5, 5.8, 6.6, 5.10

Grade Levels: 2, 3, 4, 5, 6, 7, 8

Fee: \$50.00 - \$75.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Nomenclature No-No's

Description: All animals have common names with which they are referred to on a daily basis, but they also have scientific names. Here we will learn about Carl Linnaeus and his binomial nomenclature which uses Latin to name animals; a naming system that transcends all other languages.

Disciplines: Science, Social Studies, Language Arts

NJ Standards: 3.3, 3.4, 5.5, 5.10, 7.1

Grade Levels: 6, 7, 8, 9, 10, 11, 12

Fee: \$50.00 - \$75.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Parental Behaviors

Description: Ever wonder who in the animal kingdom is a good parent? Learn which animals take care of their babies and how we handle new additions at the zoo.

Note: Sexual material is covered in this program, basic sexual education is required.

Disciplines: Science, Social Studies, Character Ed, Health/PE

NJ Standards: 3.3, 3.4, 5.5, 5.10

Grade Levels: 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$50.00 - \$75.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Skull Specific

Description: Take an up close look at what *lies* underneath the fur and skin of some amazing animals. A lot can be explained from the skull of an animal. Just one quick look can tell you how intelligent they are, to even what kinds of food they eat.

Disciplines: Science, Social Studies, Character Ed, Health/PE, Language Arts

NJ Standards: 3.3, 3.4, 5.5, 5.10

Grade Levels: 2, 3, 4, 5, 6, 8

Fee: \$50.00 - \$75.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Things that go Bump in the Night

Description: Nocturnal animals have so many special means of dealing with the living in the absence of light. Together we will explore how they exist in the darkness, and try to amend a few myths while we are there.

Disciplines: Social Studies, Science, Character Ed, Health/PE, Language Arts

NJ Standards: 3.3, 3.4, 5.5, 5.10, 6.6

Grade Levels: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$50.00 - \$75.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: What's For Lunch?

Description: Inspect why some animals eat only plants, while some eat only meat. And just what do you call humans because we eat *both*?! Here we'll take a look at basic dietary needs of many different animals and just what we feed them here at the zoo.

Disciplines: Science, Social Studies, Character Ed, Health/PE, Language Arts

NJ Standards: 3.3, 3.4, 5.5, 5.10

Grade Levels: PK, K, 1, 2, 3, 4, 5, 6, 7, 8

Fee: \$50.00 - \$75.00

Availability: By Individual Request

**Connection
Type:** ISDN

Program Title: Who Has a Backbone?

Description: Without our bones we would not be able to move, so *how can* invertebrates operate while they wear their bones on the outside? Here we will compare animals who are covered by their bones versus those who's bones are enclosed within their bodies.

Disciplines: Science, Social Studies, Character Ed, Health/PE, Language Arts

NJ Standards: 3.3, 3.4, 5.5, 5.10, 9.2

Grade Levels: 2, 3, 4, 5, 6, 7, 8

Fee: \$50.00 - \$75.00

Availability: By Individual Request

Connection Type: ISDN

Program Title: Zoo Careers

Description: What does a Zookeeper do on a typical day? What classes do they take to learn about animals? Together we will look into the many jobs and lives that go into making a zoo function, and how those people got their jobs.

Disciplines: Science, Social Studies, Career Ed, Character Ed, Language Arts

NJ Standards: 3.3, 3.4, 5.5, 5.10, 9.1

Grade Levels: 6, 7, 8, 9, 10, 11, 12

Fee: \$50.00 - \$75.00

Availability: By Individual Request

Connection Type: ISDN

Dr. Robert Nahory

Rutgers University
Dana Library
Newark, NJ 07102
Dr. Robert Nahory
Phone: 973-353-5593 Fax:
Email: nahory@andromeda.rutgers.edu

Rutgers University physicist with experience in public school classrooms using videoconferencing since 1994.

Program Title: Physics

Description: Various subject areas in physics including what is science and what do scientists actually do, light and color, how we see, audio and hearing, the basics of atoms, basic electricity, the pendulum, energy, solar system, lunar motion and eclipses, astronomy and other topics in the natural sciences. I like to work with teachers to develop new programs that fit their current curriculum. Programs are designed to be fully interactive with children and teachers, providing discussions with a working research scientist.

Disciplines: Science, Career Ed, Professional Development, Cross-curricular

NJ Standards: 5.1, 5.6, 5.7

Grade Levels: 4, 5, 6, 7, 8, 9, Teachers

Fee: \$0.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Fort Mifflin on the Delaware

1 Fort Mifflin Rd.
Philadelphia, PA 19153
Lee Patrick Anderson
Phone: 215-685-4167 Fax: 215-685-4166
Email: lee_anderson@juno.com Web: <http://www.fortmifflin.us>

Originally built in 1771 and reconstructed in 1798, Fort Mifflin is the oldest fortification continually used in the U.S. and was instrumental in allowing Washington and his Continental Army to retreat to Valley Forge in the fall of 1777. Witness to the largest bombardment ever seen on the North American continent, British forces hurled 1,000 cannonballs every 20 minutes for almost six weeks. Programs at the facility focus on a Revolutionary War battle and Fort Mifflin's strategic location in the Delaware River at the mouth of the Schuylkill River. Situated on about 30 acres, a complex of approximately eight historic buildings are open for tours.

Program Title: Blood & Tears: Civil War Medicine

Description: One of the most unique and innovative education programs you will find at a historical site. The Civil War Medicine Program uses Social Science, Physical Science and Health Science to teach how soldiers were cared for in the field and at hospitals of the era. Students will be taught the fundamental knowledge of doctors in the Civil War, using the instruments of the day and the glossary of medical conditions, anatomy names and procedures, including some medicines of the day and their cause and effect. Students will be broken up into as many as 10 doctor groups and then become a "collective" Civil War surgeon. From actual case histories they will then pre-op a soldier, care for him and then write-up the findings and the patient's prognosis. We will then reveal what each group did and then see what the actual doctor at the time did and what the actual outcome to the patient would be. Not for the squeamish.

Disciplines: Science, Social Studies, Health/PE

NJ Standards: 2.3, 5.5, 6.1

Grade Levels: 9, 10, 11, 12, Teachers, Administrators, Parents

Fee: \$125.00

Availability: By Individual Request

**Connection
Type:**

Global Education Motivators (GEM)

9601 Germantown Ave
Philadelphia , PA 19118
Sabrina Cusimano
Phone: 215-248-1150 Fax:
Email: gem@chc.edu Web: <http://www.gem-ngo.org>

GEM is a non-profit educational organization based at Chestnut Hill College in Philadelphia, PA (USA). GEM is an NGO (non-governmental organization) in association with the United States Department of Public Information. GEM services schools to promote global awareness, understanding and responsibility in an interdependent world through the use of videoconferencing technology.

Program Title: Electronic Field Trips to the United Nations

Description: Get first-hand reports from the United Nations on the following topics: Children and Armed Conflict; Water; Global Warming; Millennium Development Goals; Terrorism vs. Democracy; Human Rights; and UNICEF. These topics and others can be customized to fit your curriculum. Programs are 60 minutes each.

Disciplines: Science, Social Studies, Health/PE, Language Arts, Cross-Curricular, World Languages

NJ Standards: 6.2

Grade Levels: 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$175.00

Availability: By Individual Request

Connection Type: IP
ISDN
Desktop VC

Program Title: GEMStones

Description: Your GEMStones kit will contain approximately 25 specimens, each with mystery questions for students to solve and answer sheets for teachers. By handling and examining the samples in the kits they begin to solve basic earth science concepts for their own and get the “Oh Wow!” of science. This, combined with the interdependent theme, helps them understand the interconnectedness of Planet Earth.

Disciplines: Science

NJ Standards: 5.8

Grade Levels: K, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$300.00

Availability: By Individual Request

Connection Type: IP
ISDN
Desktop VC

Program Title: Virtual Field trips to the Fairmount Water Works Interpretive Center

Description: Students will learn how “Clean Water Begins and Ends with You” by watching a 20-minute DVD of highlights of the Interpretive Center and then interacting with the Water Works staff. Can be used as preparation for a visit to the center or as a stand-alone program. Program includes pre-visit materials sent in advance of the videoconference.

Disciplines: Science, Service Learning, Cross-Curricular

NJ Standards: 5.8

Grade Levels: K, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee:

Availability: By Individual Request

Connection Type: IP
ISDN
Desktop VC

Historic Cold Spring Village

720 Route 9
Cape May, NJ 08204
Jim Stephens
Phone: 609-898-2300 17 Fax: 609-884-5926
Email: jstephens@hcsv.org Web: <http://www.hcsv.org>

An early American living history museum

Program Title: Four Great Inventions (And One That Almost Was)

Description: Examines five important 18th/19th century inventions: the steamboat, steam locomotive, cotton gin, daguerreotype camera, and difference engine.

Disciplines: Science, Social Studies

NJ Standards: Social Studies, 6.1, 6.4, 6.5, 6.6

Grade Levels: K, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$80.00 - \$95.00

Availability: By Individual Request

Connection Type: ISDN

Historically Speaking

P.O. Box 488
Cameron Mills, NY 14820
Paul Stillman
Phone: 607-695-2656 Fax:
Email: Realbenfranklin@aol.com Web: <http://www.speakinghistorically.com>

First-person, historical characterizations, workshops, long distance learning

Program Title: Benjamin Franklin

Description: Benjamin Franklin talks about his life and times, with numerous visuals, his inventions, science experiments, life abroad, Declaration of Independence, the Revolutionary War and the Constitution.

Disciplines: Math, Science, Social Studies, Performing Arts, Cross-curricular

NJ Standards: 1.2, 6.1

Grade Levels: PK, K, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$150.00

Availability: By Individual Request

Connection Type: IP
ISDN

Program Title: Colonial Craftsman

Description: Talk to an American Colonial Craftsman from the Eighteenth Century, learn about making quill, reed, and bamboo pens and ink, making a powder horn, a hatter, tanner, and rifle maker. Learn about apprentices, their lives and life in general in colonial times.

Disciplines: Science, Social Studies, Performing Arts

NJ Standards: 1.1, 1.2, 1.3, 1.4, 1.5, 6.1, 6.2, 6.4

Grade Levels: K, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$150.00

Availability: By Individual Request

Connection Type: IP
ISDN

Program Title: Galileo and his times

Description: Meet Galileo, learn of his times, his inventions, astronomy, science, and difficulties with the church in the 1600's.

Disciplines: Science, Social Studies, Performing Arts

NJ Standards: 1.1, 1.2, 1.3, 1.4, 1.5, 6.1, 6.2, 6.3, 6.4, 6.6

Grade Levels: 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$150.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Liberty Science Center

Liberty State Park
222 Jersey City Blvd.
Jersey City, NJ 07305
Nina Colon
Phone: 201-253-1382 Fax: 201-866-8024
Email: eft@lsc.org Web: <http://www.lsc.org/>

Liberty Science Center is an innovative learning resource for lifelong exploration of nature, humanity and technology, strengthening communities and inspiring global stewardship. Let Liberty Science Center's dynamic instructors become your partners in an exploration of exciting science concepts--from the convenience of your own facility. Electronic Field Trips (EFTs) are interactive lessons delivered directly to your students at school via videoconferencing. They are broadcast live from our exhibition floors or our new laboratory setting in the Jennifer A. Chalsty Center for Science Learning and Teaching.

Our Science Educators will help your students explore a range of dynamic cross-curricular themes. EFTs come with classroom curriculum aligned with the National Science Education Standards, New Jersey Core Curriculum Science Content Standards and New York Learning Standards for Math, Science and Technology. Professional development on the use of videoconferencing technology or introduction to EFTs is available for teachers and administrators.

Program Title: All Revved Up: Race Car Science

Description: There is an old racing proverb that says "To finish first, you must first finish." Learn how the laws of physics influence race car design and track design to keep race car drivers safe.

Disciplines: Science

NJ Standards: 5.1, 5.4, 5.7

Grade Levels: 4, 5, 6, 7

Fee: \$190.00

Availability:

Connection Type: IP
ISDN
Desktop VC

Program Title: Aquatic Ecosystems-Estuary

Description: Dive into an exploration of the Hudson River Estuary! Observe a variety of organisms found in the most productive ecosystem on our planet.

Disciplines: Science

NJ Standards: 5.1, 5.5, 5.10

Grade Levels: 3, 4, 5, 6, 7, 8, 12

Fee: \$190.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: Bug Bonanza! Insects

Description: Have you ever wondered what the world would look like through insect eyes? Get up close and personal with some of six-legged friends.

Disciplines: Science

NJ Standards: 5.1,.5.5,.5,10

Grade Levels: 3, 4, 5, 6, 12

Fee: \$190.00

Availability: By Individual Request

**Connection
Type:** IP and ISDN
IP
ISDN

Program Title: Can Bees Taste with their Feet? Human and Animal Senses

Description: Snakes don't have ears, yet they still hear. Bees see the world through compound eyes. Join us in the Eat and Be Eaten gallery to learn how animal senses differ from our own and help them survive in the wild.

Disciplines: Science

NJ Standards: 5.1, 5.5

Grade Levels: K, 1, 2, 3, 4, 5

Fee: \$190.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN
Desktop VC

Program Title: Creature Camouflage

Description: Is that a leaf or an insect? How do chameleons change color? Liberty Science Center's Eat and Be Eaten exhibition explores the role of camouflage in predator prey relationships. Learn how animals use camouflage to blend with their environments and avoid becoming another animal's dinner.

Disciplines: Science

NJ Standards: 5.1, 5.5, 5.10

Grade Levels: K, 1, 2, 3, 4, 5

Fee: \$190.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN
Desktop VC

Program Title: Do You Hear That? The Science of Sound

Description: Crash! Bang! Boom! What's making all that noise? Join Liberty Science Center educators in the Communication gallery and explore the physics of sound. Learn about sound waves, digital music, and how the human ear hears and interprets all that noise.

Disciplines: Science

NJ Standards: 5.1, 5.7

Grade Levels: 4, 5, 6, 7, 8

Fee: \$190.00

Availability: By Individual Request

Connection Type: IP
ISDN
Desktop VC

Program Title: Don't Bug Me! The Asian Longhorn Beetle

Description: Join the movement to help uncover the whereabouts the Asian Longhorn Beetle. Learn how this invasive species could affect the health of your neighborhood.

Disciplines: Science

NJ Standards: 5.1, 5.4, 5.5, 5.10

Grade Levels: 4, 5, 6, 7, 8, 9, 10

Fee: \$190.00

Availability: By Individual Request

Connection Type: IP
ISDN
Desktop VC

Program Title: E-Story: Digging into Rocks and Fossils

Description: On a small island in the middle of the sea, a mouse named Milo makes an extraordinary discovery - a magic, glowing stone hidden in a deep crevice. How will this discovery change Milo and the other mice? Will it bring delight or disaster? The reader must decide. Halfway through the story, the book splits into two sections, offering alternative endings.

Disciplines: Language Arts, Science, Cross-Curricular

NJ Standards: 5.1, 5.8
Early Childhood Education Program Expectation: Science: 1.1, 1.2; Language Arts: 1.3, 2.2, 3.11

Grade Levels: PK, K, 1, 2

Fee: \$190.00

Availability: By Individual Request

Connection Type: IP
ISDN
Desktop VC

Program Title: E-Story: Jessica's X-Ray

Description: A unique way for children to learn about the skeletal system and how doctors explore what's inside of us. The book chronicles Jessica's experience at the hospital when the doctor tells her she needs to take an X-ray to see what happened when she hurt her arm. Jessica is scared and has a lot of questions like: What are X-rays? Do they hurt?

Disciplines: Science, Health/PE

NJ Standards: 2.1, 5.1, 5.5
Early Childhood Education Program Expectation: Science: 1.1, 1.2, 2.1 ; Language Arts: 1.1, 3.12

Grade Levels: PK, K, 1, 2

Fee: \$190.00

Availability:

Connection Type: IP
ISDN
Desktop VC

Program Title: E-Story: Pumpkin Circle

Description: Come find out how a garden grows, as an amazing cycle unfolds in a backyard pumpkin patch. Based on the award winning pumpkin circle video, this book is a bug's eye view of seeds sprouting, flowers blooming, bees buzzing, pumpkins growing and, finally, going back to Earth. After 100 days of weather and 100 days of care, you too might have pumpkins growing everywhere.

Disciplines: Science

NJ Standards: 5.1, 5.5

Early Childhood Education Program Expectation: Science: 1.1, 1.2, 2.2, 3.3 ; Language Arts: 1.3, 2.2, 3.12

Grade Levels: PK, K, 1, 2

Fee: \$190.00

Availability:

Connection Type: IP
ISDN
Desktop VC

Program Title: E-Story: Waiting for Wings

Description: Out in the fields, eggs are hidden from view, clinging to leaves with butterfly glue. Soon, caterpillars hatch. They creep and chew. Each one knows what he must do. Join us in exploring the world of insects. Learn about the different stages of an insect's life. Examine the types of food they eat, and investigate the science behind the beautiful colors that decorate a butterfly's wings.

Disciplines: Science

NJ Standards: 5.1, 5.5

Early Childhood Education Program Expectation: Science: 1.1, 1.2, 3.3 ; Language Arts: 1.2, 1.3, 2.2, 3.11

Grade Levels: PK, K, 1, 2

Fee: \$190.00

Availability:

Connection Type: IP
ISDN
Desktop VC

Program Title: E-Story: Water Dance

Description: Water is the most common substance on Earth, covering nearly three-quarters of the planet; its quantity on Earth has been the same for hundreds of millions of years. Yet, how much do you know about how water moves through your world? Explore the water cycle and the water in our weather.

Disciplines: Science

NJ Standards: 5.1, 5.8

Early Childhood Education Program Expectation: Science: 1.1, 1.2, 3.2, 3.4 ; Language Arts: 1.3, 2.2, 3.12

Grade Levels: PK, K, 1, 2

Fee: \$190.00

Availability: By Individual Request

Connection Type: IP
ISDN
Desktop VC

Program Title: Fierce Nature: Dynamic Earth

Description: Are you prepared for a natural disaster? Learn about the most powerful forces on the face of the earth, such as tsunamis, volcanoes and earthquakes.

Disciplines: Science

NJ Standards: 5.1, 5.8, 5.10

Grade Levels: 4, 5, 6, 7, 8

Fee: \$190.00

Availability:

Connection Type: IP
ISDN
Desktop VC

Program Title: Forensics Science

Description: Jack the Ripper committed heinous crimes. Could he have been stopped using modern day forensics techniques? Apply forensics science to uncover, identify and individualize potential evidence. Explore the diverse career paths under the forensics science umbrella.

Disciplines: Science, Career Ed

NJ Standards: 5.1, 5.2, 5.5

Grade Levels: 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$190.00

Availability:

**Connection
Type:** IP
ISDN
Desktop VC

Program Title: From Here to There--Infection

Description: All aboard! Unfortunately even infectious diseases heed that call. As world travel increases, so does the risk of transmitting infections such as Lyme disease, West Nile Virus, and tuberculosis. Discover the many ways these microbes spread and how scientists fight them with our science educators in the Infection Connection gallery.

Disciplines: Science

NJ Standards: 2.1, 5.1, 5.2, 5.10

Grade Levels: 6, 7, 8, 9, 10, 11, 12

Fee: \$190.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN
Desktop VC

Program Title: Geometry in Nature

Description: Did you know that math can be found in a seashell, a honeycomb and a leaf? Investigate the patterns and shapes that can be observed in nature and discover the mathematical principles behind these phenomena.

Disciplines: Science, Math, Cross-Curricular

NJ Standards: 5.1, 5.3, 5.5, 5.10

Grade Levels: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$190.00

Availability: By Individual Request

**Connection
Type:** IP and ISDN
IP
ISDN

Program Title: Green Power-Alternative Forms of Energy

Description: Did you know that the sun, wind and water are valuable sources of energy? As non-renewable sources of energy dwindle, renewable sources must be developed. Explore and experiment with a variety of Earth's renewable energy sources.

Disciplines: Science

NJ Standards: 5.1, 5.6, 5.7, 5.10

Grade Levels: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$190.00

Availability: By Individual Request

**Connection
Type:** IP and ISDN
IP
ISDN

Program Title: History of Invention: Invention of Writing

Description: Grab and pad and pen and take a journey back in time to trace the origins of writing as a form of communication. Explore the contributions of ancient civilizations, decipher hidden messages and discover new written languages humans have created.

Disciplines: Science, Cross-Curricular

NJ Standards: 5.1, 5.2, 5.4

Grade Levels: 4, 5, 6, 7, 8

Fee: \$190.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN
Desktop VC

Program Title: It's Easy Being Green--Green Building

Description: There is more to green building than just green paint! Liberty Science Center's Skyscraper! Achievement and Impact gallery examines design and engineering techniques that are used to make buildings more environmentally friendly. It's easy--and important for the health of the planet!

Disciplines: Science

NJ Standards: 5.1, 5.4, 5.10

Grade Levels: 6, 7, 8, 9, 10, 11, 12

Fee: \$190.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN
Desktop VC

Program Title: It's Raining Cats and Dogs! Weather

Description: How's the weather where you are? Become a junior meteorologist as you explore the wonders of weather. Examine the water cycle up close and personal, forecast the weather using the clouds, and discover why we get rain one day, and snow the next.

Disciplines: Science

NJ Standards: 5.1, 5.8

Grade Levels: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$190.00

Availability: By Individual Request

**Connection
Type:** IP and ISDN
IP
ISDN

Program Title: Leaping Lizards!- Reptiles

Description: Slither, crawl or leap into the exciting exploration of reptiles! Learn about their fascinating adaptations, behaviors and habitats.

Disciplines: Science

NJ Standards: 5.1, 5.5

Grade Levels: 3, 4, 5, 6, 7, 8, 12

Fee: \$190.00

Availability: By Individual Request

**Connection
Type:** IP and ISDN
IP
ISDN

Program Title: Movers and Shapers-Erosion

Description: The Earth is constantly changing. Some changes occur quickly while others occur over long periods of time. Explore how forces like wind erosion and water erosion affect our planet.

Disciplines: Science

NJ Standards: 5.1, 5.6, 5.8

Grade Levels: 3, 4, 5, 6, 7, 8, 12

Fee: \$190.00

Availability: By Individual Request

Connection Type: IP and ISDN
IP
ISDN

Program Title: Networking in Nature: Biodiversity and Food Webs

Description: How can we tell if an ecosystem is healthy? What affect will plant or animal extinction have on the system? Learn the basics of ecology by examining biodiversity and tracing energy as it travels through food chains. You may be surprised as you learn the ways the health of an ecosystem can affect us all.

Disciplines: Science

NJ Standards: 5.1, 5.5, 5.10

Grade Levels: 4, 5, 6, 7, 8, 9, 10

Fee: \$190.00

Availability: By Individual Request

Connection Type: IP
ISDN
Desktop VC

Program Title: No Bones About It!-The Skeletal System

Description: What would your body look like without any bones? Ever wonder who has more bones- young children or adults? Learn how your bones provide support, protection and allow movement for your body at work and at play!

Disciplines: Science

NJ Standards: 5.1, 5.4, 5.5

Grade Levels: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$190.00

Availability: By Individual Request

**Connection
Type:** IP and ISDN
IP
ISDN

Program Title: pH Factor: Acids and Bases

Description: Acids and bases are thought to be dangerous substances, as many of them are. But, if you like fruit juice and use soap, you drink acids and wash with bases all the time. Learn about the chemical nature of these important compounds with our pHenomenal science educators in the Pi Lab.

Disciplines: Science

NJ Standards: 5.1, 5.6

Grade Levels: 4, 5, 6, 7, 8

Fee: \$190.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN
Desktop VC

Program Title: Shocking Static Electricity

Description: Get ready for a hair-raising experience! Learn about electrical currents, atoms and charges while exploring the positives and negatives of static electricity.

Disciplines: Science

NJ Standards: 5.1, 5.4, 5.7

Grade Levels: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$190.00

Availability: By Individual Request

Connection Type: IP and ISDN
IP
ISDN

Program Title: Simple Machines Make Work Simple!

Description: How is it that levers, pulleys and screws seem to lighten the load? Learn how simple machines work and how they are combined in complex machinery.

Disciplines: Science

NJ Standards: 5.1, 5.3, 5.4, 5.7

Grade Levels: 3, 4, 5, 6, 7, 8, 12

Fee: \$190.00

Availability: By Individual Request

Connection Type: IP and ISDN
IP
ISDN

Program Title: Staying Healthy-The Cootie Connection

Description: Cover your mouth when you sneeze! That's great advice as germs are all around us just waiting to make us sick! Learn what it means to be healthy and examine different ways to prevent illness. If those germs do get you, you'll be able to use the proper medicine correctly.

Disciplines: Science

NJ Standards: 2.1, 5.1

Grade Levels: 1, 2, 3, 4

Fee: \$190.00

Availability: By Individual Request

**Connection
Type:**

IP

ISDN

Desktop VC

Program Title: What's In that? Mixtures and Solutions

Description: We all know that oil and water don't mix, but we encounter other mixtures every day. The milk and cereal you ate for breakfast and the ground we walk on are both mixtures. Explore with Science Center educators in the Pi Lab to learn about the properties of mixtures, how to separate the components of mixtures, and how mixtures and solutions differ.

Disciplines: Science

NJ Standards: 5.1, 5.3, 5.6

Grade Levels: 4, 5, 6, 7, 8

Fee: \$190.00

Availability: By Individual Request

**Connection
Type:**

IP

ISDN

Desktop VC

New Jersey Academy for Aquatic Sciences

1 Riverside Drive
Camden , NJ 08103
Jack Carr
Phone: 856-361-1017 Fax: 856-361-3318
Email: jcarr@njaas.org Web: <http://www.njaas.org>

The New Jersey Academy for Aquatic Sciences promotes the understanding, appreciation and protection of aquatic life and habitats through research, education and youth development programs.

The non-profit New Jersey Academy for Aquatic Sciences (NJAAS) is a leader in conservation-oriented research, environmental education, and community service both locally and globally.

The New Jersey Academy for Aquatic Sciences conducts programs offsite through outreach projects to schools and community-based organizations as well as onsite at Adventure Aquarium in a unique partnership to engage aquarium visitors in the wonder of the aquatic world.

Program Title: How Do They Do That?

Description: The world is full of a diversity of habitats, each requiring special adaptations for survival. From sticky tube feet of the sea star, to the terrific tail of the horseshoe crab, join us in discovering some amazing adaptations of the animal world!
(Garden State Distance Learning Consortium members please contact us for special rates)

Disciplines: Science, Language Arts

NJ Standards: 3.3, 3.4, 5.5, 5.10

Grade Levels: 3, 4, 5, 6, 7, 8

Fee: \$145.00

Availability: By Individual Request

Connection Type: IP
ISDN

Program Title: Sharks!

Description: Witness footage of Adventure Aquarium’s 550,000 gallon Shark Realm exhibit. Take a close look at toothy shark jaws, and get all of your shark questions answered! Dive into the world of these fabulous fish and you’ll soon find yourself going silly for sharks! (Garden State Distance Learning Consortium members please contact us for special rates)

Disciplines: Science, Language Arts

NJ Standards: 3.3, 3.4, 5.5, 5.10

Grade Levels: 3, 4, 5, 6

Fee: \$145.00

Availability: By Individual Request

Connection Type: IP
ISDN

Program Title: Shrimp TV

Description: David Letterman may be a late-night favorite, but he’s no Tinker the Turtle! Join our playful puppet Tinker and his live aquarium friends as he helps your “small fries” learn about habitats and adaptations in a fun, interactive way. Live animals and loads of fun all wrapped up in one cool shell! Nothing brings the aquatic world directly to your classroom quite like this! (Garden State Distance Learning Consortium members please contact us for special rates)

Disciplines: Science, Language Arts

NJ Standards: 3.3, 3.4, 5.5, 5.10

Grade Levels: K, 1, 2, 3

Fee: \$145.00

Availability: By Individual Request

Connection Type: IP
ISDN

New Jersey Department of Education

PO Box 500
100 Riverview Plaza
Trenton, NJ 08625-0500
Sue Sullivan
Phone: 609-777-4661 Fax: 609-341-3884
Email: sue.sullivan@doe.state.nj.us Web: <http://www.state.nj.us/education>

Program Title: Educational and Policy Outreach

Description: The state does outreach for educational and policy related issues.

Disciplines: Math, Science, Social Studies, Health/PE, Career Ed, Character Ed, Special Needs, Technology/Information Science, Professional Development, Language Arts, World Languages, Cross-curricular, Performing Arts

NJ Standards: n/a

Grade Levels: Teachers, Administrators

Fee: \$0.00

Availability: By Individual Request

Connection Type: IP
ISDN

New York Hall of Science

4701 111th St.
Flushing, NY 11368
Anthony Negrón
Phone: 718-699-0005 597 Fax:
Email: anegrón@nyscience.org Web: <http://www.nyhallsci.org>

The New York Hall of Science is New York's hands-on science and technology center. The Hall features more than 400 hands-on exhibits. Visit us and explore the wonder and excitement of biology, chemistry and physics.

Program Title: Chemistry Demonstration

Description: Have you ever seen a balloon smashed into tiny pieces by a rock or someone making ice in less than thirty seconds? It sounds impossible but these are just a few examples of activities that will be seen live during the Chemistry demonstration. Students will learn about the different phases of matter as well as the relationship between temperature and the interaction of molecules.

Disciplines: Science

NJ Standards: 5.1, 5.6

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$75.00

Availability:

Connection Type: IP
ISDN
Desktop VC

Program Title: Fun with Bubbles

Description: Can a bubble be a shape other than a sphere? Make your own bubbles while learning what makes a bubble, why they maintain their shape, and investigate the different colors. Watch as one of our Explainers makes a gigantic bubble from the Soap Bubbles exhibit. Create your own bubble art!

Disciplines: Science, Math

NJ Standards: 5.1, 5.4, 5.6, 5.8

Grade Levels: K, 1, 2

Fee: \$125.00

Availability: By Individual Request

Connection Type: IP
ISDN
Desktop VC

Program Title: Illustrious Illusions: Secrets Revealed!

Description: Whether magic show or a movie, we have all seen an example of an illusion, but what is an illusion? What is the connection in an optical illusion between our eyes and our brain? Investigate and explore the mystery behind several museum floor illusions and get the opportunity to make some of your own!

Disciplines: Science

NJ Standards: 5.1, 5.4, 5.6

Grade Levels: K, 1, 2, 3

Fee: \$125.00

Availability: By Individual Request

Connection Type: IP
ISDN
Desktop VC

Program Title: Journey Inside The Eye

Description: Students will get the chance to engage in activities that will help them learn why we see color, what are cone cells, what exactly is a blind spot, and answers to other questions that deal with our eyes. The culminating part of the program will show a live cow's eye dissection, which will help the students see what the iris and retina really look like.

Disciplines: Science

NJ Standards: 5.1, 5.5, 5.8, 5.7, 5.10

Grade Levels: K, 1, 2, 3

Fee: \$125.00

Availability: By Individual Request

Connection Type: IP
ISDN
Desktop VC

Program Title: Laser Demonstration

Description: Did you know that playing your favorite video game on most game consoles requires the use of a laser? Watching your favorite DVD also involves the use of a laser but what exactly is it? Students will learn about lasers and different uses of lasers in society. With the aid of several activities they will also learn about light and its properties.

Disciplines: Science

NJ Standards: 5.1, 5.6

Grade Levels: 4, 5, 6, 7, 8, 9

Fee: \$75.00

Availability: By Individual Request

Connection

Type: IP
ISDN
Desktop VC

Program Title: Mathematica: Beyond Numbers (Virtual Visit Unit)

Description: Gaze upon anything and you are looking at some form of mathematical principle. Math is everywhere; patterns and relationships exist all around us, all the time. Gain an understanding about Math that is not just numbers and equations. Explore the concepts of how math applied in Science and our everyday lives.

Disciplines: Math, Science

NJ Standards: 4.1, 4.3, 4.5, 4.8

Grade Levels: 6, 7, 8, 9, 10, 11, 12

Fee: \$200.00

Availability: By Individual Request

Connection

Type: IP
ISDN
Desktop VC

Program Title: Playground Science

Description: Investigate the world of simple machines in our outdoor playground. See how certain simple machines come together to make some of your favorite playground exhibits such as the Archimedes Screw, Giant Lever and Giant Seesaw.

Disciplines: Science

NJ Standards: 5.1, 5.2, 5.6, 2.1, 2.2, 6.6

Grade Levels: 3, 4, 5, 6

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
ISDN
Desktop VC

Program Title: Search for Life Beyond Earth

Description: What do under water volcanic vents, ultra-dry deserts, bitter-cold valleys, and caves dripping with sulfuric acid have in common? LIFE! Come explore Earth's most extreme environments and the possibility of life on other planets!

Disciplines: Science

NJ Standards: 5.1, 5.2, 5.5, 5.7, 5.8, 5.9, 5.10, 6.6

Grade Levels: 5, 6, 7, 8

Fee:

Availability: By Individual Request

Connection Type: IP
ISDN
Desktop VC

Program Title: Sophisticated Shadows

Description: Do a little dance, have a little fun, and in the process learn all about shadows. Visit exhibits and do activities to discover what you need to make a shadow, how to change its size and learn how a shadow differs from the object that created it.

Disciplines: Science

NJ Standards: 5.1, 5.4, 5.6

Grade Levels: K, 1, 2

Fee: \$125.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN
Desktop VC

Program Title: Sports Challenge (In the Physical World) (Virtual Visit Unit)

Description: Why do balls bounce? How does a surfer stay on the board? Explore the science of sports through classroom activities and demonstrations of our visits.

Disciplines: Science

NJ Standards: 5.1, 5.6, 2.2, 2.1, 6.6, 5.2

Grade Levels: 4, 5, 6, 7, 8, 9

Fee: \$200.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN
Desktop VC

Program Title: Sports Challenge: Health and Physiology (Virtual Visit Unit)

Description: Ever wonder why athletes get injured? Learn the importance of exercise, balance, and practice to an athlete. Also explore concepts such as reaction time and center of gravity.

Disciplines: Science, Health/PE

NJ Standards: 2.1, 2.2, 5.1, 5.2, 5.6, 6.6

Grade Levels: 4, 5, 6, 7, 8, 9

Fee: \$200.00

Availability: By Individual Request

Connection

Type: IP
ISDN
Desktop VC

Program Title: Systems Science: Intro to Networks

Description: Networks deal with more than just computers and the Internet. Examine how different mechanical, biological and social networks operate and their benefits to society.

Disciplines: Science

NJ Standards: 5.4, 8.2, 2.1, 2.1

Grade Levels: 6, 7, 8, 9, 10, 11, 12

Fee: \$200.00

Availability: By Individual Request

Connection

Type: IP
ISDN
Desktop VC

Program Title: The Hidden Kingdoms:The World of Microbes (Virtual Visit Unit)

Description: Journey into the hidden kingdoms of Microspace! Explore some of the smallest living things as you visit exhibits, look through microscopes and participate in a video-microscope demonstration. From inside food to inside your nose, discover how microbes are part of our daily life.

Disciplines: Science, Health/PE

NJ Standards: 2.2, 2.1, 5.1, 5.4, 5.5, 5.7, 5.10

Grade Levels: 4, 5, 6, 7, 8, 9

Fee: \$200.00

Availability: By Individual Request

Connection

Type: IP
ISDN
Desktop VC

Ocean of Know

Apt 7 US 60 Morrow Ave.
Scarsdale, NY 10583
Daniel McVeigh
Phone: 845-797-0968 Fax:
Email: dpm36@columbia.edu Web: <http://www.oceanofk.org>

Ocean of Know is a not for profit 501(c)3 corporation founded in 1989. It was driven by a vision of how true integration of technology could transform the experience of education for everyone. The cornerstone of Ocean of Know is Young McDonald's Farm (YMF), a tele-robotic aquaponics farm located at the Rutgers University Research Greenhouse in New Jersey also partnered with Teachers College Columbia University. Students can connect with the YMF via videoconferencing link, no matter where they are. YMF is the learning incubator for both teachers and students in our programs. It is the place where they learn to put technology to work for them, to achieve their own goals, satisfy their curiosity, and in the process learn math, science, programming, strengthen their literacy skills---seamlessly.

Program Title: Aquaponics: A Mini Fish Farm

Description: The workshop will guide you in how to set up a mini fish farm in your classroom. From the fish farm, students will gain a better understanding of how eco systems work.

Disciplines: Science, Language Arts, Cross-Curricular

NJ Standards: 4.1, 4.5, 5.1, 5.2, 8.2

Grade Levels: 4, 5, 6, 7, 8, 9, Teachers, Administrators, Parents

Fee: \$175.00

Availability: By Individual Request

Connection Type: IP
ISDN

Program Title: Aquatic Eco Systems

Description: Students gain a better understanding of aquaponics (plants and fish in the same system). This program will show students how to integrate aquaculture (fish farming) and hydroponics (plants in solution, no soil) by building and maintaining their own classroom based fish tank system.

Disciplines: Math, Science, Career Ed, Special Needs, Professional Development, Cross-Curricular

NJ Standards: 4.1, 4.5, 5.1, 5.2, 8.2

Grade Levels: 4, 6, 7, 8, 9, Teachers, Administrators, Parents

Fee: \$175.00

Availability: By Individual Request

Connection Type: IP
ISDN

Program Title: Catch a Fish - Weigh a Fish

Description: Students go on a virtual journey from Squeak Programming to the Virtual Fish Farm. Students engage in mathematic based learning while becoming aware of environmental cognition and responsibility. Through virtual training they become aware and knowledgeable in a real setting. The learning experience culminates with real ongoing experiences in a classroom aquarium. Various mathematic and technology standards are addresses in this experience.

Disciplines: Math, Science, Language Arts, Cross-Curricular

NJ Standards: 4.1-4.5, 5.1, 5.2, 5.4, 8.2, 5.10

Grade Levels:

Fee: \$175.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: Charting and Graphing Fish Data

Description: Students use a fish farm software simulation to monitor, chart and graph data.

Disciplines: Science, Professional Development, Language Arts, Cross-Curricular, Math

NJ Standards: 5.4, 5.10, 8.2

Grade Levels: 3, 4, 5, 6, Teachers, Administrators, Parents

Fee: \$175.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: Finding the Percent of a Number in Fish Body Weight

Description: In this learning experience students will use operations of fractions/decimals to find the weight of fish and apply percents to determine the percent of food to feed them. Students will determine the weight of the fish by finding the difference between the weight of the container, water, and fish and the weight of the container and water. They will also calculate the amount of food to feed them based on a percent of their body weight. They will record their information into a data table which they will summarize using Excel.

Disciplines: Science, Language Arts, Math

NJ Standards:

Grade Levels:

Fee: \$175.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: Fish Math

Description: Students will gain a better understanding of fractions, decimals, and percents through the use of a software based fish farm simulation.

Disciplines: Math, Science, Special Needs, Professional Development, Cross-Curricular

NJ Standards:

Grade Levels: 4, 5, 6, Teachers, Administrators, Parents

Fee: \$175.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: How Do Robots Think?

Description: How do robots think? Students will gain a better understanding of basic programming concepts by using a children's programming language as well as being able to trigger a real robotic arm over the Internet. They will be able to view its actions via video teleconferencing.

Disciplines: Math, Science, Cross-Curricular, Fine Arts, Professional Development, Special Needs

NJ Standards: 4.5, 5.1, 8.1

Grade Levels: 4, 5, 6, 7, 8, Teachers, Parents

Fee: \$175.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: Intro to Aquaculture: Part I

Description: Students will learn how to build a real re-circulation fish farm with 30 gallon buckets, PVC pipe and sump pump. A copy of fish farm simulation software is supplied to better explain how a fish farm works. (Gravity and Air pressure)

Disciplines: Math, Science, Career Ed, Special Needs, Cross-Curricular, Professional Development

NJ Standards:

Grade Levels: 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers, Administrators, Parents

Fee: \$175.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: Intro to Aquaculture: Part III

Description: Topics to include: Water chemistry II, Basic Chemistry, Nitrate and Ammonia Nitrogen.

Disciplines: Math, Science, Special Needs, All

NJ Standards:

Grade Levels: 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers, Administrators, Parents

Fee: \$175.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: Intro to Aquaculture: Part IV

Description: General information on different types of fish farming, trout, shrimp, tilapia.
Disciplines: Math, Science, Special Needs, Cross-Curricular
NJ Standards:
Grade Levels: 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers, Administrators, Parents
Fee: \$175.00
Availability: By Individual Request
Connection Type: IP
ISDN

Program Title: Intro to Aquaculture: Part V

Description: Intro to Hydroponics, nutrients and tracer elements.
Disciplines: Math, Science, Special Needs, Professional Development, Cross-Curricular
NJ Standards:
Grade Levels: 4, 5, 6, 7, 8, 9, 10, 11, 12
Fee: \$175.00
Availability: By Individual Request
Connection Type: IP
ISDN

Program Title: Intro to Hydroponics

Description: How do we grow plants in solution without soil? What role do nutrients and tracer elements play in plant nutrition?
Disciplines: Math, Science, Special Needs, Professional Development, Cross-Curricular
NJ Standards:
Grade Levels: 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers, Administrators, Parents
Fee: \$175.00
Availability: By Individual Request
Connection Type: IP
ISDN

Program Title: Tilipia in the Classroom

Description: Students will learn how to develop and monitor a working fish farm in their classroom. Students will work on problem solving skills as they maintain the delicate balance between feeding rates, growth rates and water chemistry.

Disciplines: Special Needs, Professional Development, Math, Science, Career Ed, Cross-Curricular

NJ Standards:

Grade Levels: 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers, Administrators, Parents

Fee: \$175.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: Water Chemistry for Fish Farming of Tilipia

Description: Understanding how to balance water chemistry when farming tilipia. How to monitor and control pH; acid and base levels; best growth rate temperatures; and safe dissolved oxygen levels.

Disciplines: Math, Science, Special Needs, Professional Development, Cross-Curricular

NJ Standards: 1, 5.5

Grade Levels: 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers, Administrators, Parents

Fee: \$175.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: Water Chemistry for Fish Farming of Tilapia: Part II

Description: Understanding how to balance water chemistry when farming tilapia. How to monitor and control fish waste, nitrate and ammonia nitrogen levels. How and when does ammonia become lethal to fish health.

Disciplines: Math, Science, Special Needs, Professional Development, Cross-Curricular

NJ Standards: 1, 5.5

Grade Levels: 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers, Administrators, Parents

Fee: \$175.00

Availability: By Individual Request

**Connection
Type:**

IP
ISDN

PRISM Professional Resources in Science & Mathematics

Montclair State University
PRISM - Blanton Hall 1st Floor
Montclair, NJ 07043
Jacalyn Willis
Phone: 973-655-7753 Fax: 973-655-4430
Email: willisj@mail.montclair.edu Web: <http://prism.montclair.edu>

PRISM programs feature live conversations with scientists, researchers, naturalists, teachers and students from locations near home and far away, such as Panama, Belize and Australia. PRISM is partnered with several institutions for videoconferencing, including field stations in Panama at the Smithsonian Tropical Research Institute; the Sterling Hill Mining Museum in Ogdensburg, NJ; and the Lemur Reserve in Myakka City, Florida. PRISM works with remote eco-lodges and indigenous schools to bring wildlife programs to students. The videoconference hosts explain research, answer questions, and show video clips to illustrate the flora and fauna of these habitats. Classes ask questions and provide comparative information about the topics from their own local habitats. Sessions last up to 40 minutes to accommodate student interaction. Each session may be shared by up to 3 classes in different locations. Sessions are conducted in Spanish or bilingually by request. Most topics can be modified for any grade level: consult with our staff to ensure a good fit for your class. Details will be posted on the website at <http://prism.montclair.edu>. Sessions are preceded and followed by background information to tie to the live discussions to NJ State Standards, and to embed the videoconferences within a curricular unit.

Program Title: Earth--to--Students: New Jersey Rocks and Sediments Kit

Description: The New Jersey Rocks and Sediments Kit, prepared by the New Jersey Geological Survey, contains 17 specimens of the most important rocks, sediments, and ores that occur in the state. It serves as an excellent, hands-on introduction to the geology and nonrenewable natural resources of New Jersey and is accompanied by a page-size geologic map, an explanatory booklet, and a supplemental book on classroom activities linked to the kit. Our instructor will guide you and your students through selected activities and reveal how New Jersey's rock and sediment resources have been instrumental in the development of our state.

We recommend at least one New Jersey Rocks and Sediments Kit for every four students. These kits can either be mailed to you beforehand for a \$50 refundable deposit, or purchased for \$20 each if you wish to retain them.

Sterling Hill Mining Museum videoconferences with geologists and miners are brought to classrooms in partnership with PRISM and the Rainforest Connection. To schedule a videoconference, contact Teresa Crerand, SHMM Education Coordinator, at tcrerand@ptd.net. To discuss adapting of the listed topics to your specific needs, or to propose a topic not yet on the list, contact Dr. Earl R. Verbeek, SHMM Education Director, at shmm@ptd.net, or by phone at 973-209-7212.

Disciplines: Science, Social Studies, Professional Development

NJ Standards: 5.2, 5.8, 6.4

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$220.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: Earth-to-Students: Fluorescent Materials in our Everyday Lives

Description: Postage stamps, office paper, laundry detergents, driver's licenses, safety clothing – what do these things have in common? They all incorporate fluorescent materials as part of their function. Fluorescent materials are all around us, some in obvious ways (the overhead light tubes in our schools), but many hidden. During this presentation students will explore the many ways that fluorescence is used in our daily lives.

Disciplines: Professional Development, Science, Social Studies

NJ Standards: 5.4, 5.8

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: Earth-to-Students: Resource Use at the Personal Level

Description: The extractive industries (mining, quarrying, oil and gas production) provide the raw materials needed to produce almost everything we use in our lives, but our material wealth comes at a heavy environmental toll. Most of us go about our lives with little awareness of our role in this process. However, because these industries are market-driven, our lifestyle choices largely determine the environmental fate of mined areas. This videoconference is meant to serve as a reality check to connect us, the consumers, to what happens elsewhere on our behalf. In choosing our lifestyles there are few right-and-wrong answers, but there are consequences, and it is our responsibility to be aware of and acknowledge them. A wealth of material for classroom discussion and student research will result from this videoconference.

Disciplines: Professional Development, Science, Social Studies

NJ Standards: 5.4, 5.8, 5.10, 6.2, 6.4

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: Earth-to-Students: What's In It and How Is It Made?

Description: We are now in our third generation of people who are largely disconnected from the Earth. Few of us these days make things for ourselves; instead we go out and buy them. In consequence, many schoolchildren have no means of making the connection between raw materials provided by the Earth and the household objects they use every day. What's in window glass? A coffee cup? The glossy paper of a book? The shingles on your roof? How does a bathtub drain pipe relate to a gas well? Find out as we explore the familiar world around us in a new way.

Disciplines: Professional Development, Science, Social Studies

NJ Standards: 5.8, 6.2

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: Earth-to-Students: What's That Rock?

Description: This videoconference serves as an introduction to students on how to identify rocks, using specimens from the ever-popular Rock Discovery Center at Sterling Hill. Rock kits will be mailed to participating schools beforehand (we recommend one kit for every four students). Each kit contains igneous, sedimentary, and metamorphic rocks from quarries in New Jersey, Pennsylvania, and New York. In addition to developing rock-identification skills, students will learn how nonrenewable natural resources are used in our daily lives, for everything from railroad ballast to pool tables.

Disciplines: Professional Development, Science, Social Studies

NJ Standards: 5.8

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: The Rainforest Connection Live: Arthropods

Description: The arthropods make up the largest slice of biological diversity found throughout the world. How do adaptations make it possible for a species to succeed? What do we learn about adaptations when we study arthropods?

Disciplines: Science, Social Studies, Professional Development, Language Arts, World Languages

NJ Standards: 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: The Rainforest Connection Live: Bats

Description: There are more species of bats than there are of any other kind of mammal in tropical forests. How do they live? What can we learn about adaptations by studying bats? What are their special relationships with other species? What kinds of bats are there? How do scientists study bats? What makes them important in food webs?

Disciplines: Science, Social Studies, Professional Development, Language Arts, World Languages

NJ Standards: 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: The Rainforest Connection Live: Canopy Species

Description: Who lives high in the trees? It's a whole other world in the canopy of a rainforest. How do they live 'way up there? What is their food? Who are their predators? Explore the world of monkeys, sloths, bats and others with video clips and photos as well as discussion.

Disciplines: World Languages, Professional Development, Language Arts, Science, Social Studies

NJ Standards: 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: The Rainforest Connection Live: Cloud Forests

Description: Some tropical forests are cool and wet, and located at high altitudes. Their flora and fauna differ from those of lowland rainforests. Cloud forest habitats are even more endangered than rainforests. Learn about these little-known forests and their special inhabitants.

Disciplines: World Languages, Professional Development, Language Arts, Science, Social Studies

NJ Standards: 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: The Rainforest Connection Live: Conservation Biology

Description: Throughout history, predators have evoked a wide range of emotions in people. They have oftentimes been misunderstood and as a result humans have persecuted them or eliminated their habitat. When this happens, the ecosystem is thrown off balance and other plants and animals are affected. Even our own pets such as dogs and cats are predators that are closely related to wolves and mountain lions. These animals are very important for the conservation of other species and much of their behavior and ecology is even more amazing than you may think! Talk with an expert on Fishers, Wolverines, and other North American predators.

Disciplines: Science, Social Studies, Professional Development, Language Arts, World Languages

NJ Standards: 5.1, 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: The Rainforest Connection Live: Decomposition

Description: The “Brown Food Web” is a way to view the multitude of decomposers and the processes that break down living organisms and return their nutrients to green plants. The diversity of decomposers rivals that of the Green Food Web in the leafy canopy of a rainforest community. How are nutrients recycled in a forest? What are the roles of various species in the process of returning nutrients to trees? Why is decomposition just as important as photosynthesis?

Disciplines: Science, Social Studies, Professional Development, Language Arts, World Languages

NJ Standards: 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: The Rainforest Connection Live: Defenses of Plants

Description: Plants can't run away from their predators, so they have evolved other defenses. From microscopic pests to large voracious herbivores, plants are under constant attack. Who eats plants and how? How do plants keep from being totally consumed? What do we know about food webs? See a new perspective on plants as the greatest chemical engineers on our planet.

Disciplines: World Languages, Professional Development, Language Arts, Science, Social Studies

NJ Standards: 5.1, 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: The Rainforest Connection Live: Food Webs in Action

Description: A tree is not “just” a tree, but also a home to many animals and other plants. The “almendro” or Dipteryx tree is one of hundreds of species of trees in a rainforest. Dipteryx is one of the tallest trees in a forest, remarkable for its beauty and incredible for how it serves many animals. Dipteryx trees produce flowers and fruits that feed many different creatures. These trees and their associates provide examples of the complex interconnections among animals and plants. Explore food webs in action at the source.

Disciplines: Science, Social Studies, Professional Development, Language Arts, World Languages

NJ Standards: 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: The Rainforest Connection Live: Lemurs in Peril

Description: Lemurs are a diverse group of primate species found in Madagascar. They live in many different ecological niches and have a variety of adaptations to those niches. Learn about their endangered conservation status, their wonderful habitats, their behaviors and biology, and the special people who study them. Brought to classrooms from the Lemur Conservation Foundation's Myakka City Lemur Reserve.

Disciplines: Science, Social Studies, Professional Development, Language Arts, World Languages

NJ Standards: 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: The Rainforest Connection Live: Mammals

Description: Mammals can be hard to see in a forest and even harder to study. What are some techniques that scientists use to understand the lives of mammals? What do they learn when they gather the data? What kinds of questions do scientists seek to answer? See the kinds of photos they get from hidden cameras in the forest.

Disciplines: Science, Social Studies, Professional Development, Language Arts, World Languages

NJ Standards: 5.1, 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: The Rainforest Connection Live: Marine Shorelines

Description: Mangroves, seagrass, and corals provide habitats that play important roles in the major ecosystems of the tropics. Learn about why they are important, how they are threatened, and what people are doing to conserve these fascinating habitats. Live to classrooms from Panama at the Galeta Marine Laboratory of the Smithsonian Tropical Research Institute.

Disciplines: World Languages, Professional Development, Language Arts, Social Studies, Science

NJ Standards: 5.1, 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: The Rainforest Connection Live: Marsupials

Description: Who are the marsupials? Why are they special? How does an ancient group compete with their placental relatives? Where are they found, and what more would we like to know about marsupials?

Disciplines: Science, Social Studies, Professional Development, Language Arts, World Languages

NJ Standards: 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: The Rainforest Connection Live: Monkeys

Description: Several monkey species can live in the same forest but use different resources. Monkey species also show a diversity of life styles and social organizations. Many of these fascinating species are in danger of extinction. Learn about how monkeys live, their special adaptations, their unique behaviors and their ecological roles in rainforests.

Disciplines: World Languages, Professional Development, Language Arts, Science, Social Studies

NJ Standards: 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: The Rainforest Connection Live: Ocelots

Description: Cautious and mostly nocturnal, ocelots are very hard to study. These medium-sized cats are important predators of rainforests in the Neotropics and other habitats from South Texas to southern South America, They play a special role in food webs which can be learned through study of a surprising behavior. Talk with scientists about how ocelots are observed, what has been learned, and what still needs to be known.

Disciplines: World Languages, Language Arts, Professional Development, Science, Social Studies

NJ Standards: 5.1, 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: Desktop VC
IP

Program Title: The Rainforest Connection Live: Predators Stalk within a Food Web

Description: Predators get such a bad reputation for eating others. Yet, when we study them, we learn so much about ecosystems. Adaptations, anatomy and function, social organization, food webs, senses, and intelligence can all be studied through the intriguing lives of predators. This topic can focus on either tropical predators or temperate zone predators.

Disciplines: Science, Social Studies, Professional Development, Language Arts, World Languages

NJ Standards: 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: The Rainforest Connection Live: Snakes

Description: Some of the most wonderful and beautiful adaptations among animals are exhibited by snakes. Explore how they move, how they feed, how they play an important role in their ecosystems. What is venom and why does it interest pharmaceutical companies? Where do snakes live and how diverse are they?

Disciplines: Science, Social Studies, Professional Development, Language Arts, World Languages

NJ Standards: 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

**Connection
Type:** IP
Desktop VC

Program Title: The Rainforest Connection Live: Symbiosis

Description: Relationships between species within a tropical forest are very complex and interconnected. Organisms as different as ants and fungi or sloths and algae have special relationships. How do species live together? What special adaptations make their lives together successful? What kinds of symbiosis do we find in a forest?

Disciplines: Science, Social Studies, Professional Development, Language Arts, World Languages

NJ Standards: 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

**Connection
Type:** IP
Desktop VC

Program Title: The Rainforest Connection Live: The Panama Canal

Description: The Panama Canal is both history and current news! In operation for nearly a hundred years, it is now expanding to handle massive ships and more traffic, while conserving water for city use. The canal connects not only oceans but also brings continents closer. Come visit Panama and its fabulous canal to learn of technology in a rainforest paradise!

Disciplines: Science, World Languages, Professional Development, Social Studies, Language Arts

NJ Standards: 5.2, 5.4, 5.10, 6.2, 6.3, 6.6

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: The Rainforest Connection Live: The Poop-Cam

Description: The cycles of energy and nutrients in an ecosystem form the foundation of life on Earth. Poop plays an important role in returning minerals to an ecosystem. How do dung beetles and other poop scavengers utilize this end-product of digestion? Mammals use scats and urine to leave messages for others of their species. Biologists study elusive species through their scats and with videocameras. What is there to learn from poop?

Disciplines: World Languages, Professional Development, Language Arts, Science, Social Studies

NJ Standards: 5.1, 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: Desktop VC
IP

Program Title: The Rainforest Connection Live: The World of Ants

Description: Rainforests are magical places in which the diversity of life is laid out before the visitor, waiting for us to seek understanding of the mysteries. There are hundreds of thousands of species of insects in rainforest. These include moths, butterflies, beetles, ants, and mosquitoes, to name only a few groups. The world of ants is fascinating, with much to learn from these small creatures: where and how they live, what they do for a living, how they are organized, and much more. Join us from a rainforest in Panama to learn what ants can teach us.

Disciplines: Science, Social Studies, Professional Development, Language Arts, World Languages

NJ Standards: 5.5, 5.10

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Program Title: The Rainforest Connection Live: Tribal Peoples of Panama

Description: Share the lives of Panama's indigenous tribal Americans! Kuna are self-sufficient people who live on many of the gorgeous Caribbean Islands. These artistic people produce colorful, intricate textiles that represent their lifestyles. The Embera, rainforest tribes, exist on the mainland and live today just as they have for the past few hundred years. Both cultures have a complete and fascinating knowledge of how to subsist within their environments using both flora and fauna to produce medicines, food, and transportation.

Disciplines: Science, Social Studies, Professional Development, Language Arts, World Languages

NJ Standards: 6.2, 6.3, 6.6

Grade Levels: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$200.00

Availability: By Individual Request

Connection Type: IP
Desktop VC

Rutgers-Camden Center for the Arts

Rutgers-Camden Center for the Arts

314 Linden Street

Camden, NJ 08102

Lynda Hitchman

Phone: 856-225-6202 Fax: 856-225-6597

Email: ljhitch@camden.rutgers.edu Web: <http://www.rutgerscamdenarts.org>

Rutgers-Camden Center for the Arts, home of the Stedman Gallery and Gordon Theater, is located in the Fine Arts Complex on the Rutgers-Camden Campus. D'ARTS programs deliver live, interactive classes directly to K-12 schools through videoconferencing technology. D'ARTS combines dynamic, responsive teaching with high quality content conveyed in a cross-curricular context. Classes are offered in two general categories: Visual Arts in Diverse Curricular Contexts teaches in, through, and about visual arts; and Sources for Drama teaches various aspects of theatre.

Program Title: Bridge Building: The Benjamin Franklin Bridge

Description: The intersections of engineering and aesthetics and infrastructure and community are explored via the study of the construction of a suspension bridge through photographs, archival renderings, and vintage postcards. The Ben Franklin Bridge (1926), which joins together Camden, NJ and Philadelphia, PA, was the first bridge over the Delaware River (and briefly the longest suspension bridge in the world). "Big Ben" was an engineering marvel that forever changed the economic and transportation infrastructure of the region.

Please note that this program has limited availability.

Disciplines: Math, Science, Social Studies, Fine Arts, Cross-curricular

NJ Standards: 1.1-1.5, 3.1, 3.3, 3.4, 3.5, 4.2, 4.3, 4.5, 5.2, 5.3, 5.4, 5.7, 5.10, 6.1, 6.2, 6.4, 6.5, 6.6, 8.2, 9.2

Grade Levels: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$65.00 - \$75.00

Availability: By Individual Request

Connection Type: ISDN
IP

Program Title: Foley Art: The Art, Drama, and Science of Sound

Description: A Foley artist creates sound effects for film, television, and radio using different kinds of technical equipment and props such as plates, glasses, car parts, chairs, and more. Students will experience the same film clip with and without sound. Students will participate in making sounds for a scene during this fascinating class which explores an art form that is heard but never seen.

Disciplines: Social Studies, Science, Performing Arts, Fine Arts, Language Arts, Health/PE, Technology/Information Science, Career Ed

NJ Standards: 1.1, 1.2, 1.3, 1.4, 1.5, 3.1, 3.3, 3.4, 3.5, 6.4, 5.2, 5.4, 5.7, 2.5, 8.2, 9.1, 9.2

Grade Levels: 4, 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$65.00 - \$75.00

Availability: By Individual Request

Connection Type: IP
ISDN

Program Title: How Much is a Million? Number Sense & Relative Size

Description: Make mind-expanding (and mind-boggling) comparisons between numbers and sizes from very large to microscopic and have lots of fun while you're learning!

Disciplines: Math, Science, Fine Arts, Language Arts, Career Ed

NJ Standards: 1.1, 3.3, 3.4, 3.5, 4.1, 4.2, 4.3, 4.4, 4.5, 5.1, 5.3, 9.2

Grade Levels: 5, 6, 7, 8, 9, 10, 11, 12

Fee: \$65.00 - \$75.00

Availability: By Individual Request

Connection Type: IP
ISDN

Program Title: Overview of RCCA's D'ARTS Class Offerings

Description: Program describes how to make the best use of these opportunities to meet your curricular requirements.

Disciplines: Math, Science, Social Studies, Language Arts, Fine Arts, Cross-curricular

NJ Standards:

Grade Levels: Teachers

Fee: \$65.00 - \$75.00

Availability: By Individual Request

**Connection
Type:** ISDN
IP

Program Title: Patterns Matter: Symmetry, Patterns, Tessellation

Description: Various works of art will be used to focus on concepts relating to patterning, symmetry, and tessellation. Find out why these concepts are important, how they are used by artists and how they are used in the real world? Students will complete activities during the session to further demonstrate the concepts.

Disciplines: Math, Science, Career Ed, Language Arts, Fine Arts

NJ Standards: 1.1, 1.2, 1.3, 1.4, 1.5, 3.3, 3.4, 3.5, 4.2, 4.3, 4.5, 5.1, 5.3, 5.4, 9.2

Grade Levels: 4, 5, 6, 7, 8

Fee: \$65.00 - \$75.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: Points of Perspective

Description: The D'ARTS teacher uses works of visual art to give students an effective way of understanding various spatial systems employed by visual artists including linear and atmospheric perspective, scale, and proportion.

Disciplines: Fine Arts, Language Arts, Career Ed, Math, Science

NJ Standards: 1.1, 1.2, 1.3, 1.4, 1.5, 3.3, 3.4, 3.5, 4.2, 4.3, 4.5, 5.1, 5.3, 5.4, 9.2

Grade Levels: 6, 7, 8, 9, 10, 11, 12

Fee: \$65.00 - \$75.00

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Program Title: Storytelling in Words and Movement

Description: Two 40-minute programs scheduled one week apart.
In this storytelling workshop based on the story of Uwungalema, an African tale, students will warm-up, discuss, participate in the initial telling in a call-and-response technique in Session One. After rehearsing, they will present the story themselves through small group work in Session Two.

Disciplines: Fine Arts, Performing Arts, Technology/Information Science, Career Ed, Language Arts

NJ Standards: 1.1, 1.2, 1.3, 1.4, 1.5, 3.1, 3.2, 3.3, 3.4, 3.5, 8.2, 9.2

Grade Levels: K, 1, 2, 3

Fee:

Availability: By Individual Request

**Connection
Type:** IP
ISDN

Science in the Cinema

Passaic Valley Regional High School
160 East Main St.
Little Falls, NJ 07424
Matt Conforth
Phone: 973-890-2500 2541 Fax: 973-890-0385
Email: pvmconforth@yahoo.com

Free film and lecture series intended for an audience that enjoys the cinema and has an interest in science and medicine. Following the viewing of each film, an expert discusses the science depicted in the film and takes questions from the audience.

This program is a collaboration with the New Jersey Association of Biomedical Research. (Contact: Jayne Mackta, 908-964-9449)

Watch for the comprehensive website for Science in the Cinema coming this summer!

Program Title: Science in the Cinema via Video Conferencing

Description: Science in the Cinema in its original form is a free film and lecture series intended for a broad range of individuals who enjoy the cinema and have an interest in science and medicine. Selected films touch on a variety of medical and scientific topics. Following each film, an expert discusses the science depicted in the film and takes questions from the audience. These discussions also include the ethical implications raised by the film. Science in the Cinema via Videoconferencing uses the same concept, but connects the students with the expert using videoconferencing. Recent projects have included experts in the fields of medicine, genetics, anthropology, cellular biology and toxicology. An example is the movie Lorenzo's Oil that was used as a catalyst to discussions on the treatment of diseases and the ethics in human experiments and gene therapy. Dr. Tischfield, a Rutgers professor of genetics was the guest speaker. Other movies include Jurassic Park, and The Real Jurassic Park, Civil Action, Gattaca, The Island of Dr. Moreau, and Erin Brokovich.

Disciplines: Science, Math, Social Studies

NJ Standards: Science Standards 5.1, 5.2, 5.4, 5.5, 5.6, 5.8, 5.10
Comprehensive Health and Phys. Ed. Standards 2.1, 2.2, 2.3

Grade Levels: 7, 8, 9, 10, 11, 12

Fee: \$0.00

Availability: By Individual Request

Connection Type: IP
ISDN

The Newark Museum

49 Washington Street

Newark, NJ 07102

Kevin Heller

Phone: 973-596-6558 Fax: 973-596-6614

Email: schoolgrouppreservations@newarkmuseum.org Web: <http://www.newarkmuseum.org>

The Newark Museum is New Jersey's largest museum of art, science and education, with 80 galleries of inspiration and exploration. Collections include American, African, Native American, Asian art and Decorative Arts. The Science collections include geology, biomes, a planetarium and a mini-zoo featuring live animals from around the world.

Program Title: Dynamic Earth: Revealing Nature's Secrets

Description: Take a journey back to the beginning of the Earth 4.6 billion years ago and discover how an ever-changing Dynamic Earth creates new environments to which animals and plants adapt. Discover geological forces such as plate tectonics and convection and explore how continents have shifted through time to develop new environments, leading to an incredible array of animals and plants. Programs will include slides, video clips and demonstrations, and can be tailored to specific grade levels and curriculum topics.

Disciplines: Science, Language Arts, Cross-curricular

NJ Standards: Science: 5.1, 5.3, 5.4, 5.5., 5.6, 5.7, 5.8, 5.9, 5.10 Language Arts: 3.3, 3.4, 3.5

Grade Levels: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Teachers

Fee: \$100.00

Availability: By Individual Request

Connection Type: IP