



Fifth Grade South Carolina Programs

MONTHLY PROGRAM PAIRINGS

SEPTEMBER & OCTOBER	DECEMBER & JANUARY	FEBRUARY, MARCH & APRIL	MAY
Ecohike in Hitchcock Woods	*Defying Gravity OR Habitat Earth Ecosystem Energy Kinesthetic Astronomy Marvelous Minerals	*Defying Gravity OR Habitat Earth CSI: Solutions Variable Ventures Walk Across the Solar System	Ecohike in Hitchcock Woods

PLANETARIUM PROGRAMS

DEFYING GRAVITY: IT IS ROCKET SCIENCE Months offered: DEC., JAN., FEB., MAR.& APRIL

Join host Apollo Aurora and her science reporters as they explore the science behind rocket power, gravity on other planets, and even monstrous black holes! Robot experts Apple I-6-8-6 and EGR-1 will also lend a few circuits to explain the force that keeps us humans all grounded. Well, some of the time! Standards: 5-PS2-1, 5-ESS1-1, 5-ESS1-2, 5-ESS1.A, 5-ESS1.B

HABITAT EARTH Months offered: DECEMBER, JANUARY, FEBRUARY, MARCH & APRIL

Dive below the ocean's surface and travel beneath the forest floor to explore how living organisms are interconnected to support life forms both large and small. From the tiniest microbe to the tallest tree, *Habitat Earth* utilizes stunning images to show students how the biological world is carefully intersected with human and ecological networks. Standards: 5-PS3-1, PS3.D, LS1.C, LS2.A

DISCOVERY PROGRAMS

CSI: SOLUTIONS Months offered: FEBRUARY, MARCH & APRIL

Scotty's dog is missing! Students use chromatography and sifting to separate mixtures; use indicators to make solutions and identify a mystery substance; and examine hair and fiber samples with microscopes in a simulated crime scene investigation. Made possible with support from Generac. Standards: 5-PS1-3, PS1.A, ETS2.A, 5-PS1-4, PS1.B

ECOSYSTEM ENERGY Months offered: DECEMBER & JANUARY

What makes a healthy ecosystem? What do plants and animals need to survive and thrive? Students will answer these questions and more as they learn how everything has a connection as energy flows through their ecosystem. Standards: 5-LS1-1, LS1.C, 5-LS2-1, LS2.A

KINESTHETIC ASTRONOMY Months offered: DECEMBER & JANUARY

Students get a feel for the scale of the universe as they sort celestial objects; then they model the Earth, Moon and Sun. They will discover why stars appear to move across the sky each day/night, why we see different stars during the year and how Earth's tilt causes seasons. Standards: 5-ESS1-1, 5-ESS1.A, 5-ESS1-2, 5-ESS1.B

MARVELOUS MINERALS Months offered: DECEMBER & JANUARY

Working together in small groups, students handle mineral specimens such as malachite, amethyst, mica, pyrite and copper. They learn to identify common minerals on the basis of their properties using a field guide and minerals identification key. Standards: 5-PS1-3, PS1.



Fifth Grade

SC Programs Continued...

DISCOVERY PROGRAMS

WALK ACROSS THE SOLAR SYSTEM Months offered: FEBRUARY, MARCH & APRIL

Students learn about the planets and the size of the solar system as they create a model of the solar system using a scale of 1 inch = 100,00 miles. This requires walking outside for about a mile, so **please wear appropriate shoes!** Standards: 5-ESS1-1, 5-ESS1.A

VARIABLE VENTURES Months offered: FEBRUARY, MARCH & APRIL

Students identify different types of mixtures and work in collaborative teams to make various solutions. They manipulate variables to change the rate of dissolving. Made possible with support from Generac. Standards: ETS2.A, 5-PS1-4

OUTDOOR EXTENDED HOUR PROGRAM

ECOHIKE IN HITCHCOCK WOODS Months offered: SEPTEMBER, OCTOBER, APRIL & MAY

This is a two-hour, two-mile guided hike through Hitchcock Woods. Native plants will be identified, evidence of animal life will be examined, and forest communities will be compared. Standards: 5-LS1-1, LS1-C, 5-LS2-1



Educator Resources

Traveling Science and Mathematics Demonstrations Program

FREE Teacher Resources and Visiting Scientists Available

The Traveling Science and Mathematics Demonstrations Program has over 300 science and math kits available for use in the classroom. Supplement your curriculum with nationally recognized and state adopted exemplary materials. Kits have been correlated to SC state standards. Many kits contain children's literature so that you can integrate your science and language arts lessons.

In addition to these resources, you can request a visiting Scientist with a Traveling Resources and Neat Demonstrations (STRAND) volunteer for classroom presentations.

For more information please visit: usca.edu/rpsec/travelingscience or call us at 803-641-3683.

Physical science series made possible with support from

GENERAC

SEED STEM Festival

Mark your calendars for the CSRA's premier STEM festival. Join us for the CSRA's premier STEM festival and celebrate innovations in science, technology, engineering, and mathematics (STEM). Visit the Ruth Patrick Science Center and other sites on the USC Aiken campus as student groups, regional corporations, museums, educators, and national labs join forces to present hundreds of activities for people of all ages.

Organizers hope to increase awareness of the critical role science and other STEM fields play in our everyday existence.

Visit usca.edu/rpsec/seed



Mathematics series made possible with support from

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RPSEC Professional Learning

Providing professional learning activities for teachers is a primary method for reaching our goal of "Infusing a Love for Science, Technology, Engineering and Mathematics." Highly qualified teachers are the primary way to impact our students. Professional Learning at the RPSEC offers a variety of activities during the summer and the academic year.

Professional Learning opportunities focus on a content area but include all STEM areas.

Visit usca.edu/rpsec/departments/professional-learning for more information.

Traveling Interdisciplinary Literacy Trunks (TILTS)

Traveling Interdisciplinary Literacy Trunks (TILTs) are teacher-designed, interdisciplinary units of study that are aligned with academic standards from multiple content areas with an emphasis on writing across the curriculum.

TILT unit plans are now available, FREE of charge, to ALL teachers.

Each completed TILT includes the following: a unit plan, children's literature, class sets of novels, science equipment, math manipulatives and a teacher resource list. Reserve yours today by e-mailing the RPSEC at travelingscience@usca.edu or calling 803-641-3638.

For more information please visit: usca.edu/rpsec/travelingscience or call us at 803-641-3683.

Funding for our TILTs has been provided by the Center of Excellence in Middle-level, Interdisciplinary Strategies for Teaching (CE-MIST), the Aiken Writing Project (AWP) and the Sunrise Rotary Club of Aiken.

