

All About Mobile Science Education Consulting Services

Dr. Diana Wehrell-Grabowski, AKA Dr. Diana, owner of *Mobile Science Education Consulting Services* has been successfully conducting "hands-on" science programs throughout the state of Florida and the United States since 1987. The business was created by Diana to provide progressive and quality "hands-on" science programs to students of all ages. The business has evolved over the years expanding on its initial efforts, by offering hands-on inservices for teachers, administrators, after-school workforce, and parenting workshops.

About Dr. Diana

- * Dr. Diana Wehrell-Grabowski received her Ph.D. in Science Education from Florida Institute of Technology in 1994. She also has a Master's degree in Curriculum & Instruction in Science Education.
- * Diana has been an adjunct professor teaching Science Methods Courses throughout her career.
- * Diana has presented over 14,000 hands-on science programs to pre-K-12th grade students at hundreds of public and private educational institutions, & informal learning environments (camps, Parks & Recreation, libraries, bookstores, etc.).
- * Diana has provided over 800 teacher inservices. Additionally, she has trained over 5,000 individuals in the implementation of family science programs.
- * Diana has been a keynote speaker, guest speaker/presenter at over eighty conferences throughout the state of Florida and the United States.
- * Her business has been awarded several grants. Additionally, she has worked collaboratively with other organizations in writing grants that were awarded.
- * Her business has been recognized by local, state, & the national media. Additionally, Diana has written articles that have appeared in several publications.
- * Diana has written 15 curriculum training manuals used in her teacher in-services & parenting workshops.
- * Diana is a member of *NSTA, FAST, LEEF, NAEAA, NAEYC, Afterschool Alliance, FRA, FPEA, Head Start, No Child Left Inside Organization.*

About The Science Programs

- * The presentation of concepts and activities are presented according to the age/grade level in attendance.
- * All programs allow participants to explore and investigate scientific concepts in a "HANDS-ON-MINDS-ON" format.
- * All programs provide opportunities for the participant to make projects to bring home that reinforce the concepts learned during the specific program.
- * Most programs integrate other subject areas such as: math, history, culture, and the arts.
- * All programs are standards-based. Thus, students will be building upon concepts taught in school.
- * Most important, participants will have fun while learning.

Benefits Of Hands-On Science Outreach Programs

- * Your campers/participants will be presented with specialized science programs in a professional manner, from a nationally recognized Ph.D. science education consultant.
- * Attending teachers, camp counselors, and parents will gain valuable information relative to current methodologies being implemented in science education, and in science content.
- * Your organization will no longer have to purchase or maintain expensive scientific equipment and supplies.
- * Your organization can publicly proclaim it has a unique and specialized science program.

Program Fees

- * \$100.00 per program.
- * All programs are one hour in length.

A flat travel fee per visit will be charged for travel out of Brevard County. Travel fees are based on the distance traveled and cost of fuel.

- * **Payment is due on the day of presentation.**
- * Checks are to be made out to: *Mobile Science Education Consulting Services.*

Hands-On Science

Outreach Programs

Available Year-Round

Specially Designed For Informal Learning Environments: Afterschool Programs, Summer & Spring Break Camps, Park & Recreation Depts. & Libraries

Mobile Science Education Consulting Services



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Exploring Ancient Plants and Animals: Paleontology Explorations

Students will become paleontologists for the day digging for fossils, observing real and replica fossils from the plant and animal kingdom. Participants will make their own man-made imprint fossil to bring home.



Gross Science: The Science of Really Gross Things

Participants will explore how the human and animal body work through "gross yet "kid" friendly explorations. Make fake snot, solid waste, explore the skeletal system. Participants Will also explore "gross" concepts in the animal kingdom including: earthworms, insects, owl pellets and more...



Boats Afloat: The Science of Buoyancy

Participants will explore the characteristics of water, density and buoyancy through the use of boats and floating devices. Make a floating device as well from simple materials.



Exploring the Characteristics of Light & Sound Waves

Explore sound and light waves using slinkies, tuning forks, musical instruments, prisms, mirrors, spectrosopes and more. Participants will have the opportunity to make several sound and light projects to bring home.



Chemical Investigations Via Kitchen Chemistry

Explore chemistry concepts using common household and grocery store items. Make *Slime*, *Oobleck*, *Glurch*, test for acids and bases, explore the chemistry and physics of candy, explore the science of grow creatures, chromatography, and more. Participants will make several chemistry projects to bring home.



Teaching Science Through the Literature of Dr. Seuss

Explore a wide-array of science concepts that are related to science themes in Dr. Seuss books. From exploring a unique substance, called Oobleck to hands-on explorations with sound waves, the animal and plant kingdom. This program is a great addition to your events during the entire month of March. Approximately 50 Dr. Seuss titles will be used, including science themed books from the new *Cat In The Hat Learning Series* by Tish Rabe & Bonnie Worth.

Exploring the Science of Toys

Explore the science principles used in toys, Newton's Laws of Motion, Polymer Science, and more through the use of: yo-yo's, tops, cars, race tracks, aerodynamic toys, polymers, boats, and many more toys.



STEM: Science, Technology, Engineering, and Mathematics

Participants will conduct a wide-array of fun and exciting investigations that connect science, technology, engineering, and mathematics concepts. From looking at inventions, and how man has used models from nature in designing inventions. Building structures with simple materials and testing for strength. Building aeronautic structures, and testing for how long they stay afloat. Design, build, & take home projects galore!

Micro Explorers

Science is about looking closely at the world around you. In this program participants will be introduced to the importance of making observations using hand lenses and simple microscopes. They will observe objects from around the home, and nature. Students will receive a mini-journal for micro drawings and notes.



Rock and Gem Scientists

Explore earth science concepts including volcanoes, earthquakes, quick sand, the rock cycle and more through hands on exciting hands-on explorations. Participants will sift for gems to keep and make some neat science/art projects too.



Investigations with Magnetism, Electricity, & Static Electricity

Explore the basics of magnetism, electricity, and static electricity principles through exciting hands-on explorations. Make electric-spin art and a magnetic necklace or bracelet.



Teaching Science Through Popular Children's Literature

Participants will explore a wide-array of science concepts directly connected to science themes found in popular children's literature. Hands-on science explorations will cover all *Sunshine State Science Strands*, as well as connect to math, language arts, reading, social studies, and the arts as well. Approximately 100 titles will be available for students to read while conducting exciting and educational hands-on explorations. A sample of authors include: Himmelman, Gibbons, Fredricks, Bradley, Zoehfeld, & Sunshine State ReadReaderauthors, Carle, and more. Titles will vary according to grade level (K-2, 3-5, 6-8).



Exploring Animal Homes of all Kinds, Land & Water

Explore animal homes of many animals that dwell on land and in water. Students will build an animal home using materials from nature.



Exploration Kingdom Animalia

Students will be introduced to all the phyla within the animal kingdom. Through living and non-living specimens. Observe and touch insects, spiders, earthworms, sea creatures, mammals, reptiles, birds, and more...



Animal Adaptations

From bird beaks to the use of camouflage in the animal kingdom students will learn how animals have physical adaptations that allow them to survive in specific habitats.

Ocean Explorations

Participants will be introduced to ocean, river, and Estuary life. They will observe and touch live sea creatures. Learn about shells, marine ecology, and oceanography concepts. Participants will make a Japanese fish print, seaweed press, shell to sand shaker and more...



Botanical Investigations

Participants will explore botanical concepts (trees, seeds, flowers, pollination, and more). Participants will make bird-seed necklaces, plant seeds, make botany art and more...



Nature Explorers

Participants will be introduced to ecology concepts via hands-on explorations. Includes:nature explorations, wildlife, habitats, botany, recycling, pollution, solar energy, eco-art projects and more...* A mini nature hike can be conducted on the school, park, library site if enough counselors/staff/volunteers are available to help with supervision. Dr. Diana will bring many specimens from nature to convey environmental education concepts to participants. Thus, a venture outside is not necessary if it's not feasible. This is a timely program with the recent research on the positive benefits of children spending time outdoors, and the best-selling non-fiction book *Last Child In The Woods* by Richard



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