

## 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 and teacher workshops/in-services 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, and “hands-on” science inservices for teachers, administrators, and parents.

### About The Owner

\* Dr. Diana Wehrell-Grabowski received her Ph.D. Science Education from Florida Institute of Technology in 1994. She also has a Master’s degree in Curriculum and Instruction in Science Education.

\* Diana has provided over 800 teacher in-services for public and private educational institutions, corporations, and educational organizations. Additionally, she has trained over 5000 individuals in the implementation of family science programs.

\* Diana has been a keynote speaker, guest speaker and presenter at over 85 conferences throughout the state of Florida and nationwide.

\* Diana has presented over 13,500 “hands-on” science programs to pre-K-12th grade students at hundreds of public and private educational institutions.

\* Her business has been awarded several prestigious grants. Additionally, she has worked collaboratively with other organizations in writing grants and providing training in major grants.

\* Her business has received the attention of the media on 40+ occasions. Additionally, she has written articles that have appeared in many publications.

\* Diana has written 15 curriculum training manuals used in her in-services.

\* Diana is a member of NSTA, FAST, NAEYC, NAAEE, and Coalition Member of the No Child Left Inside Organization.



Looking for an educational interactive, and exciting keynote presentation for your next conference? Contact Dr. Diana for details, view her keynote speaker website@ <http://drdianakeynotespeaker.com>

## Structure Of In-services

\* All in-services help to meet the goals set forth in the *No Child Left Behind Act*.

\* All in-services meet the requirements of the *National Science Education Standards* (K-12th Grade).

\* All in-services meet the requirements of the *new world-class Sunshine State Science Standards*.

• In-services cover the *Eighteen Big Ideas* and four *Bodies of Knowledge* (Nature of Science, Life Science, Earth Science, and Physical Science).

\* All In-services cover annually assessed FCAT Science benchmarks.

\* All in-services incorporate a “hands-on” inquiry approach to the teaching and learning of science.

\* All in-services are **inquiry-based**.

\* All in-services incorporate the use of interactive student notebooks (ISN). journals.

## Fees

\* In-services can be funded primarily through Title I, II, V Funds, IDEA funding, No Child Left Behind Act, Race to the Top, STEM funds, School Readiness, Literacy Funds, & more...

\* Three Hour In-service.....\$700.00

\* One Day In-service (5-6 hours).....\$1,000.00

\* Two three hour in-services scheduled in one day will be charged additional fees.

• Additional fees will be charged for travel and lodging as needed.

• **THE ABOVE RATES INCLUDE:**  
• One curriculum manual per participant (25) and supplies required to conduct in-service.

# SCIENCE INSERVICES For K-12th Grade Teachers



## Big Ideas



## Mobile Science Education Consulting Services

Diana Wehrell-Grabowski, Ph.D.  
Science Education Consultant

104 North Brevard Avenue  
Cocoa Beach, Florida 32931  
Phone (321) 799-9004 Fax (321) 783-0777

E-mail: [drdianascience@bellsouth.net](mailto:drdianascience@bellsouth.net)  
Website: <http://drdianateachertraining.com>

### Implementing The New World Class Sunshine State Standards In The Classroom Using Inquiry-Based Learning



During this inservice participants will be introduced to the *National Science Education Standards* and **newly revised Sunshine State Standards** through an in-depth overview. The overview will include: a brief history of reform in science education, discussions on the intended role of the Standards and detailing the components of the Standards and Benchmarks. Additionally, through extensive "hands-on-minds-on" investigations participants will learn how to use and integrate the Standards and Benchmarks in the classroom, relative to the specific participant audience. **Covers ALL four Bodies of Knowledge concepts (18 big ideas).**

### Prepare Your School/ District for Success on THE SCIENCE FCAT



During this in-service participants will be introduced the SCIENCE component on the FCAT. The science component of the FCAT has been developed to assess the students' ability to focus on science concepts, processes, and a broad science knowledge base instead of memorizing facts in isolation. During this in-service the method of instruction will be inquiry-based. All hands-on-minds-on investigations and concepts introduced are directly related to the Science Benchmarks. **Covers all four Bodies of Knowledge & 18 Big Ideas. Emphasis is placed on Nature of Science, and developing critical-thinking skills.**

### Making The Connection: Genuine Integrated Science In The Secondary Science Classroom



During this inservice participants will gain valuable insight of the educational foundations and research which support the need for implementing integrated science in today's science classrooms. Participants will engage in many "hands-on-minds-on" science investigations which incorporate genuine integrated teaching methodologies and theories primarily through the use of an integrated, spiral and comprehensive approach. (6-12). **Covers all four Bodies of Knowledge & 18 Big Ideas, with emphasis on making the connections to all four Bodies of Knowledge.**

### Connecting Science W/Other Disciplines



This inservice is designed for those districts who are seeking to make a successful connection between science and other academic disciplines, otherwise known as *inter-disciplinary instruction*. Participants will learn how to incorporate science into their daily reading, writing, mathematics, health, the arts, health education, and social studies through extensive "hands-on-minds-on" investigations/explorations. **Covers all four Bodies of Knowledge** plus makes connections to all other academic areas (math, history, etc.). Suggested Grade Level (K-6).



### Teaching Science Through Children's Literature

During this inservice the participants will learn how to bring science to life through popular children's literature. Endless examples of how children's literature can be used in the classroom to present and reinforce scientific concepts in a format that is motivating and understandable to the student. Participants will learn how to select fictional books with scientific themes and then develop "hands-on-minds-on science lessons that provide both scientific information and reinforcement. This in-service emphasizes the importance of the integration of science, reading and the language arts in the classroom on a daily basis. Approximately 50 titles/books will be used during this workshop. **Covers all four Bodies of Knowledge plus makes connections to The Language Arts.** Available at three levels: (K-2) (3-5) & Junior High (6-8).



### Teaching Science Through the Literature of Dr. Seuss

During this inservice participants will learn how to bring science to life through the use of the new *Dr. Seuss Cat in the Hat's Learning Library: Oh Say Can You Say Dinosaur, Is A Camel A Mammal, and others.* Plus the following titles and more: *The Lorax, Bartholomew and the Oobleck, Horton Hatches The Egg, If I Ran the Zoo, Horton Hears A Who, Green Eggs And Ham,* and more. Approximately 40 Dr. Seuss books will be introduced during this inservice which can be used to teach science through one of the most famous and prolific writers of our time. Participants will be given an historical overview of Dr. Seuss's life, which will help participants have a better understanding of how many of Dr. Seuss's books evolved. Participants will engage in a wide-variety of hands-on science activities each connecting to the various themes found in the individual books introduced during the inservice. This inservice is a must for all primary educators'. Science, reading readiness, and literacy all in one in-service. **Covers all four Bodies of Knowledge & Big Ideas 1-18, plus makes connections to The Language Arts.** Suggested Grade Levels (K-3).



### Exploring Life Science & Environmental Education Concepts

During this inservice participants will be introduced to a wide-array of life and environmental education concepts and investigations through extensive "hands-on" explorations. Special emphasis will be placed on using the school campus for environmental investigations. Concepts covered: Organization and development of living organisms, diversity and evolution of living organisms, heredity and Reproduction, interdependence, and matter and energy transformations. **Covers Life Science Body of Knowledge Concepts & Big Ideas 14-18.** Suggested Grade Levels (K-12). This workshop is especially timely with the passing



### Exploring Earth & Space Science Concepts

During this inservice participants will be introduced to a wide-array of earth and space science concepts through extensive "hands-on" investigations. Content covered: foundational astronomy concepts(Origin of the Universe, Planets and Stars), geological concepts/ Earth's changing surface, weather, erosion, weathering, solar energy, the rock cycle, fossils, and more. **Covers Earth and Space Body of Knowledge concepts & Big Ideas 5-7 plus Physical Science Big Ideas 8-13 that are relative to Earth and Space Science concepts.** Suggested Grade Levels (All).

### Exploring Physical Science Concepts

During this inservice participants will be introduced to a wide-array of physical science concepts through extensive "hands-on" investigations. Content covered: laws of motion and gravitation, momentum, work and energy, heat, wave motion and sound, light, electricity & magnetism, and atomic structure. Graphing and mathematical applications will be integrated within most investigations. **Covers Physical Science Body of Knowledge Concepts & Big Ideas 8-13.** Suggested Grade Levels (4-12).



### Introducing Nature of Matter Concepts VIA Kitchen Chemistry

This inservice is designed to enable the participant to become better acquainted with the exciting world of chemistry, in a simple and fun way. During this In-service participants will conduct a wide-array of extensive "hands-on" investigations to include: exploring the states of matter, differentiating between mixtures and solutions, chemical and physical changes, analysis of the periodic table, constructing molecular models, testing for acids and bases. Participants will also make several unique polymers such as; *Oobleck, Glurch and Slime* and compare their characteristics. Graphing and mathematical applications will be integrated within most investigations. **Covers Physical Science Body of Knowledge concepts & Big Ideas 8-10.** Properties of Matter, Changes in Matter, & Forms of Energy. Suggested Grade Levels (4-12).



### Developing Critical Thinking Skills via Exploring Science, Technology, Engineering, and Math (STEM) Concepts

During this in-service participants will learn how to develop and strengthen critical thinking skills within their students by incorporating science, technology, engineering, and math (STEM) concepts. Participants will conduct numerous hands-on-minds-on explorations that integrate STEM concepts that will help to develop and strengthen critical thinking skills. The use of writing and journaling in the science classroom will be incorporated throughout the in-service. Participants will use *interactive notebooks* during the workshop. Covers science, technology, engineering, and math strands. Great in-service for all grade levels. Concepts presented vary according to grouping of participants (K-2, 3-6, 6-12).

