

## Science Content and Pedagogy Workshops Offered through Science & Safety Consulting Services By Dennis Johnson, K-8 Science Consultant

All workshops are offered as either 3-hour, or 6-hour workshops depending upon the specific needs of the host school/system. Teachers who attend any of the workshops will also receive a \$15.00 discount towards the purchase of Edition 2 of the *Science Laboratory Safety Manual*. This laboratory safety manual by Linda Stroud, PhD is a must for everyone's professional library. Contact Linda Stroud to discuss scheduling one of these workshops for your school or school system. [LMStroud@aol.com](mailto:LMStroud@aol.com); 919 270 2914 or 919 881 0282

### **Title: Astronomy Misconceptions:**

Target Audience: K-8

Description: Why is the sky blue? What causes the moon's phases? What causes the seasons? These and many other basic astronomy questions will be answered using exciting inquiry-based activities. This workshop is a must for elementary and middle school teachers who teach astronomy topics such as the earth/moon/sun relationships and the solar system.

### **Title: Chemistry using Kitchen Chemicals:**

Target Audience: K-8

Description: This hands-on workshop emphasizes the properties of matter using simple chemistry activities and inquiry. It is applicable for middle school and elementary teachers who teach the properties of matter, chemical interactions, and chemical reactions. Teachers are made cognizant of safety issues, use of household chemicals instead of special chemicals, and disposal of wastes.

### **Title: Physical Science with Household Items:**

Target Audience: K-8

Description: This hands-on workshop emphasizes simple physical science activities using inquiry and common household materials. It is applicable for any elementary or middle school teacher who teaches force, energy, and motion. All activities are correlated to the national science standards.

### **Title: Electricity and Magnetism (Circuits and Magnets):**

Target Audience: K-8

Description: Build an electric circuit, determine the differences between a series and parallel circuit, and examine the relationship between electricity and magnetism. These and other electricity and magnetism topics will be taught using hands-on inquiry methods. This workshop is a must for all middle school and elementary science teachers.

**Title: Activities for the Elementary Science Classroom:**

Target Audience: K-5

Description: In this workshop you will incorporate language arts and math into science, learn activities correlated to the K-5 NC Science Standard Course of Study that you can take home and use in your classroom, and examine the inquiry classroom.

**Title: Science Safety for Elementary Teachers:**

Target Audience: K-5

Description: This 3-hour workshop is designed to assist elementary and middle school science teachers develop a complete safety program. The workshop covers the legal aspects of lab safety as well as safety program components such as safety equipment, labeling requirements, chemical storage, consumer chemical safety, Material Safety Data Sheets, emergency procedures, and hazard assessment. A 6-hour version of the workshop is also available which includes inquiry activities and their safety aspects.

**Title: Inquiry for Elementary Teachers:**

Target Audience: K-5

Description: Using hands-on experiences, this workshop gives teachers a thorough grounding in the pedagogy and practice of science inquiry. Participants examine different ways of teaching hands-on science, explore the process skills of inquiry, engage in a full scientific inquiry, and consider ways to include inquiry in their own classrooms. The workshop can be presented in a 3-hour or 6-hour format with activities that are correlated to the North Carolina Standard Course of Study (NCSCOS).

**Title: Inquiry for Middle School Science Teachers:**

Target Audience: 6-8

Description: Using hands-on experiences, this workshop gives teachers a through grounding in the pedagogy and practice of science inquiry. Participants examine different ways of teaching hands-on science, explore the process skills of inquiry, engage in full science inquiry, and consider ways to include inquiry in their own classrooms. The workshop can be presented in a 3-hour or 6-hour format with activities that are correlated to the North Carolina Standard Course of Study (NCSCOS).