



## Sensational Web Adventures for the Science Classroom

**Dates of this course are set to run: TBD**

### **Course Description:**

Are you tired of the “same old - same old”? Then it is time to sweep away the **cobwebs** in your classroom and replace them with new materials easily and conveniently obtained on the **World Wide Web**. For those that are just starting out, be sure not to miss this opportunity to put your best foot forward and gain the attention of your administrators.

- Science is a subject that **changes** rapidly and we as science educators must make necessary adjustments to accommodate these changes.
- It is essential that the modern science teacher be aware of **controversial** science issues of today and is educated as to suggested ways to handle these issues in the classroom.
- The science teacher is always in need of **resources** that provide opportunities for updating content knowledge in an interesting and convenient manner.

To address the above concerns participants in this course will utilize and explore a multitude of online resources that are inspirational and exciting not only to the educator but also to all the young minds they teach. Each participant will be able to select those resources that best fit his/her subject and grade level and in conclusion of the course, will accumulate a considerable amount of material that is “classroom ready”. This course is appropriate for all elementary and secondary science educators.

### **Participant Outcomes/Goals:**

- Each participant should accumulate numerous lesson plans, group activities, demonstration suggestions, video clips, and charts etc., which are specific to subject and grade level.
- Exciting new online resources for personal updating of content knowledge will be identified and easily accessed.
- Science objects, web seminars, book chapters and journal articles will be stored in the NSTA personalized library that can be accessed at any time.
- Each participant will develop an extensive personal online bibliography that will be conveniently available.
- The participant will examine symposia and web oriented activities sponsored by agencies such as NASA, NOAA, USGS, FDA, NIH, AGILENT, HEWLETT, EXON/MOBIL FOUNDATIONS, and many others.

## **NYS Standards addressed in this course are:**

MST 1 Standard 1: Students will use mathematical analysis, scientific inquiry, and engineering design, as appropriate, to pose questions, seek answers, and develop solutions.

Key Idea 2. Beyond the use of reasoning and consensus, scientific inquiry involves the testing of proposed explanations involving the use of conventional techniques and procedures and usually requiring considerable ingenuity. PI Devise ways of making observation to test proposed explanations

MST 2 Students will access, generate, process, and transfer information using appropriate technologies.

Key Idea 1 Information technology is used to retrieve, process, and communicate information and as a tool to enhance learning.

PI-1 From a wide range of sources such as research data bases, foundations, organizations, national libraries, and electronic communication networks, including the Internet.

MST 5 Standard 5: Students will apply technological knowledge and skills to design, construct, use, and evaluate products.

Key Idea 2. Technological tools, materials, and other resources should be selected on the basis of safety, cost, availability, appropriateness, and environmental impact; technological processes change energy, information, and material resources into more useful forms. PI - Explore, use, and process a variety of materials and energy sources to design and construct things. - Use appropriate graphic and electronic tools and techniques to process information.

MST 7 Students will apply the knowledge and thinking skills of mathematics, science, and technology to address real-life problems and make informed decisions.

Key Idea 2. Solving interdisciplinary problems involves a variety of skills and strategies, including effective work habits; gathering and processing information; generating and analyzing ideas; realizing ideas; making connections among the common themes of mathematics, science, and technology; and presenting results.

PI Students participate in an extended, culminating mathematics, science, and technology project. The project would require students to:

- work effectively
- gather and process information
- generate and analyze ideas
- observe common themes
- realize ideas
- present results

### **Prerequisites:**

All Participants should be familiar with Microsoft Office, have an e-mail address and have access to a microphone/head set. As we proceed through the course participants will be asked to download various free Adobe plug-ins and the free Eluminate application.

## **Recommendation for in-service credit:**

Participants must:

- Complete and/or amend all assignments in a professional manner. (Refer to assessment schedule detailed in the road map, throughout the course.)
- Demonstrate willingness to collaborate with fellow participants in friendly and polite manner. (Keep in mind that our objective is to assist one another to achieve success.)
- Maintain a satisfactory level of participation with other members of the class.

## **About the Instructor:**

Don't hesitate to contact me at [truleedi@yahoo.com](mailto:truleedi@yahoo.com).



Diana Truglio Bio

Diana Truglio holds a Master's degree in Marine Science from CW post University. Her experience includes teaching science in all areas and grade levels. She taught biology for twenty-five years in Sayville H.S. with both the gifted and challenged student. The first AP Bio class in Sayville was initiated by her efforts.

In 1985 when breast cancer was discovered within her family Diana took a leave of absence and founded Women's Outreach Network (WON). She researched the field and found there was a great need for early detection education among women. She worked in Albany and Washington along with various women's health groups, and also serving on committees that eventually led to legislation that allowed women to refer themselves for mammography. WON was among the nations first and longest lasting mobile mammography programs delivering this life saving service and education to underserved women. In 2008 WON was acquired by Project Renewal and continues this service to 6000 women / year in the NYC area. It became very apparent to Diana that a great deal of education occurs outside the school building.

Due to early detection Diana and her daughter survived breast cancer, allowing her, in the capacity of a life long educator, the ability to speak on breast cancer issues, to teenage students and mature women. Education of both the young as well as adults is very important to Diana