



Welcome and NTTI Overview

*"If we teach today like we taught
yesterday, we rob our children of
tomorrow."*

John Dewey, Educator and Philosopher

Welcome to the 2001-02 National Teacher Training Institute

This classroom binder is your guide to the implementation and utilization of video and the Internet in the classroom in all areas of the curriculum. As a participant in the National Teacher Training Institute (NTTI), you are joining a growing network of trained educators throughout the country who are using instructional video and technology in their teaching.

The NTTI staff and Master Teachers have carefully developed resources that will assist you in producing your own media-rich lesson plans as well as in planning your own NTTI workshop in your school. We have also included exemplary media-rich lesson plans for you to use, get ideas from, or share with other educators.

The NTTI binder is a teaching tool for your classroom as well as a resource to be shared widely with your colleagues. We want you to suggest NTTI ideas to other teachers and to become an advocate for using educational television effectively and efficiently in the classroom. The NTTI information you share will act as a catalyst, initiating and inspiring the expansion of television and technology in the classroom.

Be intrigued, challenged, and informed...and remember, have fun!

The 2001–02 National Teacher Training Institute (NTTI) Project Summary

America's schools are on a critical path to integrate technologies into classroom instruction and curricula as quickly as possible. States, districts, and individual schools are increasingly making media and technology in the classroom a priority. Though more and more technologies are finally making their way into schools, few teachers have received the training needed to successfully integrate these resources in their instruction. In the scramble to capitalize upon the educational power of media and technology, teachers have too often been left out of the mix.

National Teacher Training Institute (NTTI) Fills National Need

— Now in its twelfth year, the National Teacher Training Institute is the largest and most distinguished national professional development program developed and sustained by public broadcasting. Created by Thirteen/WNET in New York City, NTTI remains in the vanguard of public television's efforts to help teachers harness the power of technology and use it as a tool to teach more effectively. The project has continued to expand to respond to education reform initiatives, new technologies, emerging media, and national teaching standards in all curriculum areas. *To date, NTTI has trained over 140,000 teachers and impacted millions of students nationwide.* For 2001–02, NTTI will directly train over 5,000 K–12 teachers in the methodology of NTTI, and indirectly, through turnkey training, reach another 50,000 teachers with the interactive pedagogy.

The Model — NTTI is a collaborative professional development project partnering public television, education, and business in an effort to provide teachers with the strategies and resources they need to strategically integrate television and technology into curricula. At over twenty-six sites across America, public television stations conduct training Institutes where locally-recruited master teachers model the use of video and Internet technologies within the context of a variety of engaging lessons. A year-long program, NTTI provides a constellation of resources, the centerpiece of which is two days of hands-on workshops for 100 to 300 teachers at each of the participating public television sites' Institutes. Participants are given opportunities to work in small, cooperative learning groups, engage in hands-on activities, and experience teaching strategies they are encouraged to utilize in their classrooms to enhance student participation and performance.

NTTI advances an interactive teaching methodology in which video and telecommunications merge with hands-on activities to enhance critical thinking, motivate student learning, and sharpen students' perceptual skills. Public television's wealth of educational programming provides students with vivid demonstrations of content from all curriculum areas. Tied to real world settings and contexts, video and Internet resources help make the connection between curricula and students' own lives and futures. Video is also adept at presenting students with a range of diverse role models working in these fields.

The NTTI model is based on *teachers teaching teachers*. Locally-recruited "master teachers" develop media-rich lesson plans with hands-on classroom activities based on their various curricula. These master teachers then go on to conduct hands-on training at each Institute, modeling strategies for effectively weaving technology into substantive and student-driven curricula. The high caliber of NTTI's master teachers is demonstrated by the awards and recognition that many of them receive in their school districts, states, and nationally — including State Teacher of the Year Awards and Presidential Teacher of the Year designations.

Standards-Based — The Institute follows the K–12 standards set by such groups as the United States Department of Education, New York State Education Department, the National Academy of Sciences, the International Society for Technology in Education, the National Council of Teachers of Mathematics, the National Council for Teachers of English, and the National Center for History in the Schools. It is critical to prepare teachers in the effective use of technology to support reform-minded teaching objectives such as interdisciplinary learning and real world problem-solving. NTTI’s master teachers work with their core state and local curricula at each grade level, starting with the basics and moving through advanced levels of study. NTTI participants learn to use video and Internet resources to explain, motivate, reinforce, and reach students’ different learning styles as they grapple with various curriculum concepts.

Partnerships — NTTI also emphasizes the importance of partnerships between the public television station and the educational leadership in its state and community. Many NTTI sites have created strong partnerships with their state departments of higher education, with colleges of education at local universities in their regions, and with local or state chapters of teacher professional organizations. Thirteen/WNET has also established an affiliation with the Rensselaer Polytechnic Institute for graduate credit for NTTI teachers nationwide.

Turnkey Training is also a cornerstone of the project. Each Institute’s participants graduate from their local NTTI armed with a new methodology and an NTTI Classroom Kit Binder full of lesson plans created by master teachers and other technology resource materials. All teachers selected to participate are requested, as a condition of their acceptance, to agree to share what they have learned with at least ten colleagues. NTTI graduates continue to serve as liaisons between their local station and area educators by returning to their schools and districts to train colleagues, exponentially impacting many more educators. Beyond the thousands of educators attending these NTTI workshops, the project reaches thousands of additional teachers through a range of projects and services.

Results — A multi-instrument evaluation designed by Columbia University’s Teachers College has been an important part of an ongoing analysis of the Institute’s effectiveness. Consistent evaluation findings show that NTTI’s methodology increases students’ interest and performance and attending teachers’ professionalism:

- *90 percent* of the teachers said their students learned and retained more when video was used in the lesson;
- *85 percent* found that students were more engaged in subjects when instructional television was part of the curriculum;
- *80 percent* believed the Institute’s methods have significantly improved their classroom instruction; and
- In keeping with the project’s turnkey training mission, *94 percent* of Institute participants shared information and materials with other teachers while *70 percent* went on to formally conduct hands-on training in their schools and districts.

Reaching Thousands of Teachers Nationwide — To reach as many educators as possible, NTTI developed a range of training tools to support program graduates and those teachers unable to attend an Institute. These include: a professional development CD-ROM and lesson compilation books; an annual NTTI SERC in-service telecourse delivered by satellite to educators nationwide; and NTTI Online at www.thirteen.org/wnetschool/ntti, providing information about the project, its sites, services, strategies, and a searchable lesson database of 200 K–12 lessons. NTTI also has a national Teacher Award program, allowing each of the twenty-six sites to recognize an educator who has creatively integrated technology into their instruction with a \$1,000 grant.

Thanks to NTTI’s ongoing efforts, thousands of educators across the country are using video and technology to transport their students into the 21st century. Teachers are using video as a magic carpet out of the classroom into the middle of a rainforest to learn about biomes, into a computer animation to illustrate cosines, and onto a rocket ship to the moon to teach the physics of thrust and gravity. As one master teacher put it, “Unless students are plugged into appropriate uses of technology, they will be unplugged from their futures.”

In 2001–02, over twenty-six public television stations will participate in NTTI. The project’s partner sites (some of whom conduct multiple Institutes statewide) are:

- ASSET/KAET/KUAT, Phoenix, AZ
- Greater Dayton Public Television
- Idaho Public Television
- KCPT, Kansas City, MO
- KCTS, Seattle, WA
- KEDT, Corpus Christi, TX
- KERA/KDTN, Dallas, TX
- KLVX, Las Vegas, NV
- KNPB, Reno, NV
- KOCE, Huntington Beach, CA
- KQED, San Francisco, CA
- KRMA, Denver, CO
- Louisiana Public Broadcasting
- Maryland Public Television
- Mississippi Educational Television
- Mountain Lake PBS, Plattsburgh, NY
- South Carolina ETV
- Thirteen/WNET, New York, NY
- Utah Education Network
- Virginia’s Public Broadcasting Stations
- WCNY, Syracuse, NY
- WDCN, Nashville, TN
- WGBY, Springfield, MA
- WJCT, Jacksonville, FL
- WSRE, Pensacola, FL
- WVIZ, Cleveland, OH



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Dear Institute Participants:

Welcome to the 11th annual National Teacher Training Institute. You are a special group of educators chosen to be leaders in our effort to integrate television and technology into math and science instruction.

Education has always been primary on Thirteen's priority list, and our National Teacher Training Institute specifically addresses the critical need in this country to increase our students' interest and proficiency in utilizing technology across all subject areas.

The National Teacher Training Institute has achieved nationwide recognition, and from the beginning has held the wholehearted support of leading educators in the tri-state area.

You, our teachers, are the linchpin. With the Institute's help, you can use the incredibly powerful tools of television and the Internet to make curriculum come alive in the classroom. I hope this will be a professionally enriching experience for you - one that you can share with your colleagues to build a network that extends beyond school and district lines.

Wishing you great success,

A handwritten signature in black ink that reads "Bill Baker". The signature is written in a cursive, flowing style.