

Learning Resources

Creating Animation On A Computer

Artist Tanya Weinberger presents an entertaining and informative demonstration of her work with the 2M Paint Box computer animation system. She shows two of her computer-produced short animated films for children, then explains how she created many of her dazzling images and charming characters, with the help of an electronic "drawing pen" and the computer keyboard and software. She clearly describes and illustrates the computer capabilities that allow her to draw, color, and bring to life her artistic imaginings.

Ages 9 to 11, Ages 12 to 14
27 minutes, order 1-9934-IN

Crime Check: Computer Security

The Crime Check Series

An up-to-date program on how to protect your electronic files, hard drives and floppy disks from theft and accidental loss due to computer viruses.

Shows how to avoid these menacing viruses and what to do if your system becomes infected. Also explains who to contact in case of a computer emergency or a total system breakdown.

Adult
19 minutes, order 1-8805-IN

Stevie Wonder plays, computer graphics display statistics and convey concepts, avoid menacing viruses.

Fast Forward To Math & Science: Using Tv & Tech Effectively

Cd-rom

Professional
minutes, order 5-4595-IN

The Internet In Action Series

This series consists of three video cassettes with print and on-line support materials, that teach three key Internet applications:

Research (Program 1), Weblive (communication and collaboration) (Program 2), and Web Publishing (Program 3).

The Internet in Action series emphasizes unique, real-world opportunities to engage students in exploration and discovery - addressing national math and science standards.

Ages 9-14, Ages 12-18,
Professional
minutes, order 5-49440-IN

Non-destructive Testing Of Machine Parts

This new program shows how 7 different non-destructive test procedures are carried out on machine parts (aircraft, automobile, etc), their advantages, limitations and typical areas of application.

The processes covered are: dye penetrants (colour contrast and fluorescent), magnetic particle (colour contrast and fluorescent), ultrasonic testing (pulse echo and through transmission), eddy current testing, alternating current field measurement (ACFM), radiography (x-ray and gamma ray, fluoroscopic radiography and computer aided radiography), and thermal imaging.

A very wide range of applications are shown from the multi-million dollar aircraft industry to simple crack testing of a car cylinder head.

Adult
29 minutes, order 8-2409-IN

Robotics - The Future Is Now

Hosted by William Shatner. This program teaches students about robots and the roles they play in industry. Through graphic illustrations we see how they are used now and their future possibilities.

It introduces the concepts, capabilities, and applications of industrial robots. A variety of demonstrations illustrate their range of motion, systems of "vision" and "touch", as well as problem-solving abilities developing parallels between human and robots.

Gold Circle Award,
American Society Of
Association Executives

Ages 12-18
20 minutes, order 1-9778-IN

What's Up In Factories?

This CINE Golden Eagle award-winning video and curriculum guide will help high school teachers present an interdisciplinary education unit exploring the modern world of manufacturing. This program encompasses four lessons:



Learning Resources

Why Study Manufacturing?

Profiles a high school student's plans to pursue a career in manufacturing.

The History of Manufacturing

Uses vintage film and photos to provide a context for understanding manufacturing today.

The Manufacturing Process

Is a step-by-step look at the process of making New Balance sneakers.

New Trends in Manufacturing

Visits the Toyota Camry factory to see how lean production techniques keep employees and manufacturers working smart!

Ages 15 to 18
30 minutes, order 5-4453-IN

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