



**DECLARATION OF MONSIGNOR LAWRENCE BAIRD  
DIOCESE OF ORANGE**

I, Monsignor Lawrence Baird, being over 18 years of age and competent to make this declaration, hereby declare as follows:

1. I am the Director of Pastoral Communications at the Education and Welfare Corporation of the Roman Catholic Diocese of Orange. As Director of Communications, I have the responsibility of supporting through television communication systems and information technology the educational and religious needs of our diverse population located in Orange County, California. The Diocese of Orange, which serves more than 1 million Catholics, provides instructional programming to over 20,000 students in 36 out of its 40 diocese schools and 59 parishes and centers throughout Orange County.

2. The Diocese started using Instructional Television Fixed Service ("ITFS") channels in 1983. Since then, the Diocese has delivered pre-recorded instructional programming to students throughout Orange County in courses such as health, science, math, history and art. Our educational programming, which originates from our studio at Santa Margarita High School, encompasses every subject for every grade level. Live telecasts in English, Science and teacher professional development are broadcast to high schools or K-8 schools for interactive participation using a telephone call back for the audio. In the evenings, when the ITFS frequencies are not being used for educational programming, the Diocese broadcasts inspirational and educational programming aimed at adults to our parishes. In addition, special masses, ordinations, Holy Week services, and other events of importance to our community are broadcast live.

3. Over the years, the Diocese has provided innovative and practical course content to its students. For instance, four years ago the Diocese developed an independent course in which we transmitted to our high schools an art class taught by a professional auto designer employed by Caltly, the design entity for Toyota Automobiles. The course taught students everything that is involved in designing an automobile. The class was video taped at the Caltly headquarters in Newport Beach, California, and broadcast to our high schools via ITFS. One of the students that participated in the independent course was eventually offered a job by Caltly as a clay modeler. Therefore, the impact of using ITFS frequencies to broadcast courses such as this one is extremely important to the education and the future of our students (see Attachment A).

4. The advent of two-way services and broadband technology is critical to the Diocese for two reasons. First, it will allow the Diocese to offer *high-speed Internet* access and other data services to our schools. The alternative for these private schools may mean wiring historical old mission buildings and paying monthly charges to a telephone or cable company for broadband Internet access. This option is costly and would delay the introduction of these educational tools into our curriculum. Second, some of our schools are located in poor neighborhoods and do not have the necessary

funds to provide courses that are critical to a young student's development, such as art and music. ITFS capacity and two-way engineering can be used to create a virtual classroom in which students in schools without such courses can participate in a class with students in schools that do have such courses available. Therefore, while the Diocese has made significant use of its one-way analog ITFS video programming, it is preparing to file applications with the FCC to obtain two-way authorization.

5. Currently, the Diocese leases its excess capacity to WorldCom Broadband Solutions. In exchange for the excess capacity, WorldCom pays the Diocese a minimum monthly fee and provides technical assistance to our schools. The funds and technical assistance we receive from our commercial partner have significantly improved the quality of our education. For instance, several years ago a commercial partner provided us with a grant for partial subsidy of a production truck equipped with television cameras and other video recording equipment. The equipment is used to provide our students at Santa Margarita High School with practical experience when used in conjunction with one of the three television courses offered at that institution. A "Basic Television" course develops basic camera and editing skills. "Advanced Television" students produce a program called the "Daily News" and participate in the broadcasting of religious and sporting events. The "After Affects" course teaches photo shop, graphics and Adobe. In addition, we use such equipment to cover football games at one of our high schools and other Diocese events.

6. The monthly fee the Diocese receives from WorldCom covers a significant portion of the cost of managing our instructional television program. Effectively, without a lease agreement, the Diocese could not transmit video programming to our schools. In the future, without an inexpensive alternative to provide access to elective courses and a broadband link to the Internet, students of schools will be seriously disadvantaged.

I declare under penalty of perjury that the foregoing is true and correct.

  
Monsignor Lawrence Baird  
Director of Communications  
Diocese of Orange

Executed on February 20, 2001.

**EXHIBIT F**

**ATTACHMENT A**

# Diocesan TV Supplements Catholic School Curriculum

By ELISABETH DEFFNER

Television isn't just for couch potatoes anymore. In fact, in the Diocese of Orange, television is for the devout, the curious, the interested, and—above all—for the student.

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***"We've actually increased the number of different shows offered."***

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The Catholic Television Network of Orange (CTNO) currently broadcasts on two channels, which are received by Catholic schools throughout the Diocese. The Eternal Word Television Network also broadcasts reli-

gious programming.

"We've actually increased the number of different shows offered," notes Steve Sellwood, diocesan station manager.

Programs include popular educational shows like *Bill Nye the Science Guy* and *Where in the World is Carmen SanDiego*, the goal of which is to make learning fun. But now the Diocesan TV schedule includes shows that cover all academic subjects, Sellwood explains. Programs cater to different age- and grade-levels. For example,



# TELEVISION

Continued from Page 1

future engineers could benefit from the type of series taped by the Engineering Department of Toyota in Irvine. Seven shows demonstrated how to put together a design for a car.

At St. Boniface School in Anaheim, Sr. Mila Marie Santos, OP is the Instructional Television Coordinator. She receives the diocesan television schedule monthly, then copies it for and distributes it to each teacher in the school so they can plan which shows to watch, which to tape, and how to use them in the classroom. Despite some initial difficulty receiving the programs in the classroom, teachers have managed to incorporate the programming into their teaching plans, Sr. Mila Marie relates. One fourth grade teacher regularly showed her students tapes of various programs last year, including shows on art and social studies. She also used a tape of a program on the Missions of California, which are studied during the fourth

grade academic year, Sister relates. "We talk about it in faculty meetings," she remarks. "The teachers are very positive about it, and want to use it. Even in the library, where I work, I'd like to use it. The kids are in there for 30 minutes, and sometimes if there's an interesting program on, I would like to show it to them."

Sellwood indicates that some schools haven't yet determined how to incorporate the programming into

***"The teachers are very positive about it, and want to use it."***

the classroom, but are holding in-services and reading up on the subject to discover how other teachers and schools have made use of relevant television programs. A website ([www.smhs.org/ctm](http://www.smhs.org/ctm)) will soon be set up, allowing teachers and administrators access to program schedules at their convenience and perhaps offering new ideas on how to use the diocesan television in the classroom.

According to Julie Dodd-Thomas,

Executive Director of Pacific Bell Video Services, educational programming is becoming central to the corporation's television offerings. (Pacific Bell hooked up all the diocesan schools to receive the television broadcasts.) At home, customers can watch "telecourses" from colleges and universities such as California State University Dominguez Hills and California State Polytechnic University, Pomona, or even international pro-

Margarita High School students have partially fulfilled their service requirements by volunteering at AIDS walks sponsored by Pacific Bell, for instance.

"It's mutually beneficial," comments Dodd-Thomas. She adds that the Archdiocese of Los Angeles has also brought educational television into the classroom through the efforts of Pacific Bell, and notes that Cardinal Roger Mahony saw a television program in a classroom while visiting an Archdiocesan school; he was so impressed with the product, she says, that he called and asked for Pacific Bell to hook his home up as well.

"If it's good enough for the Cardinal," she says with a laugh, "it's good enough for the rest of us."

Declares Sellwood, "Education is our main goal right now. We want to provide educational programming for our schools, and to serve them."

To see the Catholic programming available in your area, see below.

grams, including some from Germany and Asian countries. "We really do support education, and want to assist wherever we can," declares Dodd-Thomas.

A parishioner at Mission San Juan Capistrano, Dodd-Thomas is heavily involved with the Catholic Churches and schools of Orange County, and relates that Pacific Bell itself has also become more involved with Catholic Schools in this Diocese. Santa



**DECLARATION OF SHIRLEY CONNOLLY  
ARCH/DIOCESES OF THE SAN FRANCISCO BAY AREA**

I, Shirley Connolly being over 18 years of age and competent to make this declaration, hereby declare as follows:

1. I am the General Manager for Catholic Telemedia Network (CTN) for the Archdiocese of San Francisco, the Diocese of Oakland, and the Diocese of San Jose (collectively referred to as "Arch/Dioceses"). CTN provides ITFS programming to 38,000 Catholic students in more than 140 schools located in the counties of San Francisco, Marin, San Mateo, Santa Clara, Contra Costa and Alameda throughout the Bay Area.

2. CTN has been using ITFS frequencies to support education in Catholic schools and Parish learning centers since 1970 and was one of the first educational agencies in the San Francisco area to use ITFS to transmit to distant classrooms pre-taped program series supported with teacher guides and in-service training. Today, the CTN tape library has over 4,000 videotaped programs available for educational and professional training. In addition, CTN accesses resources for "Distance Learning" from all over the world via satellite or over the Internet and delivers this material to schools over ITFS. ITFS helps us to cover the "last mile" into individual classrooms. And now our schools are able to benefit from "any time, anywhere" resources to enhance learning. Current resources for learning materials include programs produced by PBS, NASA, Fairfax County Department of Education, Williamsburg Foundation, and the Jason Project (see Attachment A, Telemedia Guides for Elementary and High Schools).

3. Our schools have a significant number of students from multi-ethnic backgrounds representing our Asian, Pacific Islander, African American and Latino communities. In fact, California is already a state where the majority of our residents speak Spanish as their primary language. Many immigrant parents living in our Arch/Dioceses are low wage earners who provide support services to companies located in Silicon Valley. They look to our schools to enable their children to receive a quality education. Therefore, as our educators become more sophisticated in the use of technology, they count on CTN to help them to fine-tune their curriculum to meet individual learning styles of this diverse student population. CTN takes an active role to develop and implement technology plans for our schools that will allow them to provide quality instructional programming to enhance students' education.

4. One example of CTN's efforts to bring the world into one classroom utilizing ITFS occurred recently at St. Elizabeth Seton Elementary School serving East Palo Alto. CTN staff assisted a fourth grade teacher with videotapes, satellite-delivered programming and some web-based materials to flesh out her lesson on rain forests. Resources were delivered directly to the classroom over ITFS. CTN provided extra staff assistance so that the young students could visit a rain forest and experience a virtual sense of the specific plants and animals they might find in such an environment. That day, this one classroom, representing a multi-ethnic and low economic community that is located in one of the most affluent areas of the United States, had an opportunity to move beyond their walls and reach across the world to learn about an entirely

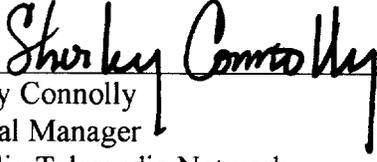
different environment. Most likely, that opportunity would not be available in their homes, which are located on the far side of the digital divide.

5. In addition to school programming and video production, CTN offers videotapes and interactive conferences for adults that vary from teacher training for schools (especially in the use of technology in the classroom) to life-long learning, staff education and holiday specials for those gathered in parish settings. CTN offers programs designed to assist individuals with special needs such as seniors, disabled persons, health care agencies, and ethnic groups. For the last several years, CTN has participated in the annual Grief teleconferences hosted by Cokie Roberts of ABC News and produced by the Hospice Foundation of America (see Attachment B, 2000 Hospice video conference program guide). These conferences have been delivered over ITFS to participating hospitals, Catholic parishes and retirement centers where groups are assembled, facilitators are available, and CUE credit can be earned.

6. In 1999, CTN Bay Area entered the digital era by collaborating with Sprint Broadband Wireless Group and the other ITFS educators in the San Francisco and San Jose broadband markets to design an engineering plan for the area that would allow Sprint to offer two-way, high speed data delivery to consumers in our area. Two-way applications were filed with the FCC in August 2000. FCC authority to begin the digital buildout is expected in the near future. This digital conversion will give CTN and other neighboring educators the capacity to transmit digitally compressed instructional material and improve the speed and quality of its broadcasts over the ITFS/MMDS spectrum. In September 2000, CTN entered into a pilot program with Sprint, which has provided 16 of our parish schools with two-way high speed Internet access. In addition, Sprint has indicated that it will assist us to continue pilot projects with our schools in the use of streaming video in the classroom and in developing desktop video conferencing for teacher training. Our goal is to provide our learners with video, data, and audio resources utilizing ITFS to provide high-speed delivery of resources.

7. CTN Bay Area operates its ITFS system on an annual budget of \$ 1,000,000. We receive a substantial portion of our funding from our commercial partnership with Sprint. Our Archdioceses do not have funding to support the cost of providing technology resources in our schools. Therefore, the revenue and other services CTN receives from leasing transmission capacity to Sprint has become the major source of income for the maintenance, expansion, and improvement of our ITFS services. Without such revenue and on-going technical assistance from Sprint, CTN would not be able to expand its operations and would be forced to eliminate many instructional programs. CTN would be unable to digitize its video library and to expand its distance learning/professional training programs. In the end, the ones most hurt by this loss will be our students.

I declare under penalty of perjury that the foregoing is true and correct.

  
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Shirley Connolly  
General Manager  
Catholic Telemedia Network  
Arch/Dioceses of San Francisco Bay Area

Executed on February 20th, 2001.

EXHIBIT G  
ATTACHMENT A

CELEBRATING 30 YEARS OF SERVICE

**CTN**

**Catholic Telemedia Network**

February 2001

# ON SCREEN

**Telemedia Guide for Elementary Schools**

## MEDIA & COMMUNICATION

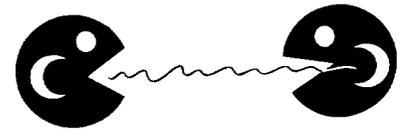
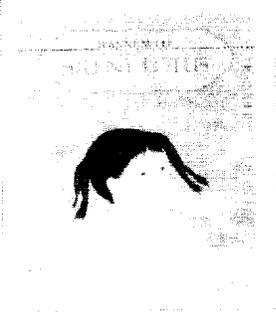
As technologies merge and multiply, there are more ways to send a message. This issue explores communication through language and gesture, storytelling, drama, visual arts, film, television, advertising, and the Internet.

Body language is a powerful medium, as shown in *How Does It Feel?* and *The Hating Movie*. Misinterpreted messages and stereotypes cause breakdowns in communication in this month's guidance programs (*DIFFERENT & THE SAME*, *LOOKING INSIDE OUT*, & *GOSPEL OF ST. BERNARD*)

Dance and sign language are the means of communication in *Silent Lotus* and *Sophie and Lou*. Music is the medium in *Let's Explore Sounds* and *Zin! Zin! Violin*. And bees, baboons, and whales have their own language, as you'll see in *Social Behavior and Training Animals*.

Art communicates stories and feelings, as shown in *THE BIG A* and *DRAW ALONG*. But art in advertising can tell lies, so check out Laurel's Internet activities (pp. 2-3).

Look inside for an array of programs on writing, the science of making IMAX films, and a discussion with filmmakers George Lucas and James Cameron about violence in the movies (p. 3). Last but not least, tune in to the CTN website, at [www.ctnba.org](http://www.ctnba.org), for new videos and electronic field trips.



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# COMMUNICATION AND MEDIA

## VIDEO & INTERNET ACTIVITIES

BY LAUREL LIPSICK

### UNDERSTANDING EACH OTHER, GETTING ALONG

#### Developing Character

Lesson Plans, Gr. K-5

[www.goodcharacter.com/ESTopics.html](http://www.goodcharacter.com/ESTopics.html)

Includes discussion questions, writing assignments, student activities, and parent involvement tips for character education and life skills. Included are lessons on dealing with disappointment, being friends, and asking for help.

*Related February Videos*

*He Said, She Said*

*I Don't Get It*

*I'll Decide*

*It's Mine!*

*That's Me*

*You Bug Me!*

### MEDIA AND ADVERTISING

#### *Buy Me That* NEW

3 Loan Videos (29:00 Each) Gr. 1-5

*Discussion Guides*

According to statistics children spend more time watching television than they do in school. These programs go behind the scenes to show students how products are enhanced and promoted. Discusses editing, celebrity endorsements, deceptive labeling, and more.

#### *Buy Me That!*

*A Kids' Survival Guide to TV Advertising*

#### *Buy Me That 3:*

*A Kid's Guide to Food Advertising*

#### *Buy Me That Too!*

### LESSONS IN MEDIA AWARENESS

#### Media Literacy for Middle School Students

[www.assignmentmedialit.com/Home8/](http://www.assignmentmedialit.com/Home8/)

[Middle8/middle8.htm](http://www.assignmentmedialit.com/Middle8/middle8.htm)

A series of downloadable lesson plans in .pdf format focuses on the media. Each lesson plan includes a unit overview, as well as classroom activities. For example the unit on "Asking Critical Questions" helps students learn to ask questions to discover the purpose, point of view, target audience and subtext of different types of media messages.

The lesson topics to choose from are:

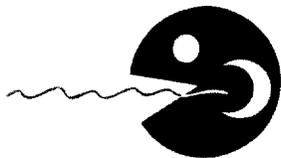
- ✓ Asking Critical Questions
- ✓ What's Real and What's Reel?
- ✓ History and Media
- ✓ Entertainment Warriors
- ✓ Media Mania

#### Mathline: Is It Really News?

[www.pbs.org/teachersource/mathline/lessonplans/pdf/msmp/news.pdf](http://www.pbs.org/teachersource/mathline/lessonplans/pdf/msmp/news.pdf)

This lesson uses fraction and percent to determine what part of a newspaper is really news:

*A leading national newspaper stated that the majority of the information contained therein is in the form of advertisements. To investigate this, copies of the local newspaper are distributed to student groups. The class is instructed to reach a consensus on their definition of "news" and on general headings to be used to categorize the contents of a newspaper, such as sports, entertainment, advertisements, etc. Using transparent grid sheets as overlays, students estimate the total area of a newspaper page, excluding the margins, and determine the area of each category on their assigned pages.*



## COMMUNICATION AND MEDIA, CONTINUED

## PRESIDENTS' DAY IDEAS

**Abraham Lincoln Online**

[www.siec.k12.in.us/~west/proj/lincoln/index.html](http://www.siec.k12.in.us/~west/proj/lincoln/index.html)

Contains online activities created by 2nd grade students. The class created a quiz, a treasure hunt, and links of interest to students learning about Abe Lincoln in the primary grades.

[www.aitech.ac.jp/~iteslj/quizzes/tf-lb-pday.html](http://www.aitech.ac.jp/~iteslj/quizzes/tf-lb-pday.html)

An online Presidents' Day Quiz.

[www.npg.si.edu/col/pres/index.htm](http://www.npg.si.edu/col/pres/index.htm)

Information on the U.S. Presidents—ideal for student research grades 4-6.

[www.potus.com/](http://www.potus.com/)

Biographical sketches of each of the United States Presidents.

## MORE MEDIA ACTIVITIES

[www.pbs.org/kids/did\\_you\\_know/did\\_techknow.html](http://www.pbs.org/kids/did_you_know/did_techknow.html)

An interactive quiz from "PBS' Tech Know" tests your students' knowledge of the Web. Click on "get your web license."

**Affluenza**

[www.pbs.org/kcts/affluenza/](http://www.pbs.org/kcts/affluenza/)

Are your student's families afflicted with "Affluenza," an unsustainable addiction to material consumption? The site offers studies, symptoms, practical ideas, and classroom resources.

[www.pbs.org/kcts/affluenza/diag/have.html](http://www.pbs.org/kcts/affluenza/diag/have.html)

An online quiz helps students determine whether they suffer from Affluenza.

[www.zillions.org/](http://www.zillions.org/)

Click on "Food or Toy - Ad Tricks" to learn how the advertising industry misleads kids. Students can report a misleading ad that they have seen. The Food Trick segment shows how food stylists make food look more appealing.

## MEDIA VIOLENCE

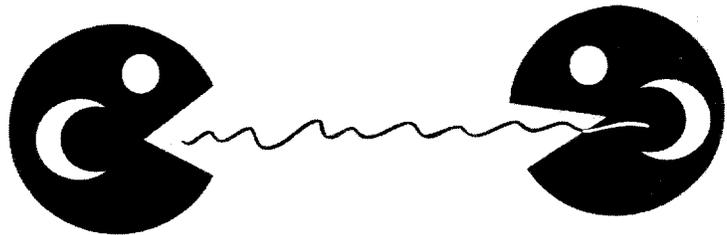
**Media and Social Responsibility**

(ACHIEVEMENT TV) (TTC-697)

Loan Video with Student Handout Master  
(60:00) Gr. 8-12

Writing professionals in print and film discuss the impact of media violence on young people. Program guests include filmmakers George Lucas and James Cameron; Geraldine Laybourne of Nicolodeon TV; Bob Woodward and Ben Bradlee from the *Washington Post*, and authors Bob Stine & Rita Dove.

The student handout has research activities, discussion questions, and background information on the panelists.





# SPOTLIGHT ON FEBRUARY PROGRAMS

## **Adjective Clauses**

(WRITE CHANNEL)

WC-005 (15:00) Gr. 3-4

Explains clauses introduced by "who" or "that."

## **Adjective Modification**

(WRITE CHANNEL)

WC-002 (15:00) Gr. 3-4

Teaches the use of adjectives and reviews punctuation.

## **The Agony of Alice**

(MORE BOOKS...)

MOR-004 (15:00) Gr. 5-6

A journal assignment helps Alice make sense of her life.



## **Air Is Matter: Air Is There**

(3-2-1 CONTACT)

CLS-021 (15:00) Gr. 4-6

A sports stadium is supported by air; a parachutist takes a dive.

## **Airpowered Architecture**

(NEWTON'S APPLE)

NA-002 (30:00) Gr. 6-9

Explore the science of air, polarized lenses, and amusement parks.

## **Air Pressure**

(TAKE A LOOK)

TAL-021 (10:00) Gr. 2-4

Make a barometer to measure air pressure.

## **Animal Adaptations:**

### **Why Do Zebras Have Stripes?**

(SCIENCE FOR YOU)

SY-002 (14:00) Gr. 4-6

Animals use camouflage to escape predators.

## **Animals without Backbones**

(UP CLOSE & NATURAL)

UP-002 (14:00) Gr. 1-4

Earthworms, spiders, and crayfish belong to the invertebrate community.

## **Armed and Dangerous**

(SCIENCE OF THE SEA)

SOS-005 (15:00) Gr. 4-8

Underwater photography shows how marine animals evade predators.

## **Benedict Arnold**

(PORTRAITS)

POR-002 (15:00) Gr. 5-8

The most famous traitor in American history was once an American hero.

## **The Big Wave**

(COVER TO COVER)

COV-005 (15:00) Gr. 3-4

A tidal wave changes the lives of two friends in Japan.

## **Blueberries for Sal**

(STORY CIRCLE)

SF-050 (9:00) Gr. K-1

A child and a little bear get mixed up with each other's mothers.

## **Body Design**

(ALL FIT)

SG-010 (15:00) Gr. 3-4

Exercises show how skeleton and muscles work together as a team.

## **Cells: Your Starting Place**

(HEAD TO TOE)

HTT-002 (15:00) Gr. 1-2

Cells are the building blocks of living things.

## **Cinderella and Me**

(DIFFERENT & THE SAME)

DIF-002 (14:00) Gr. 1-3

Audrey can't be Cinderella in the play because she doesn't have blond hair.

## **Cinematic Secrets & the Right Lights**

(NEWTON'S APPLE)

NA-003 (30:00) Gr. 6-9

Learn about Omnimax films and fluorescent light bulbs.

## **NEWTON'S APPLE**

Media-Related Internet Lessons

### **Movie Dinosaurs**

[www.pbs.org/ktca/newtons/12/moviedino.html](http://www.pbs.org/ktca/newtons/12/moviedino.html)

Puppets and computers create special effects.

### **Monster Makeup**

[www.pbs.org/ktca/newtons/10/makeup.html](http://www.pbs.org/ktca/newtons/10/makeup.html)

Learn to create monster faces.

### **Omnimax/Imax**

[www.pbs.org/ktca/newtons/10/omnimax.html](http://www.pbs.org/ktca/newtons/10/omnimax.html)

Find out how you make & project a giant film.

## **Collecting Data**

(MATH WORKS)

MW-021 (15:00) Gr. 5

Students learn statistics to back up a plea for a softball field.

## **The Club**

(DIFFERENT & THE SAME)

DIF-005 (15:00) Gr. 1-3

Arthur excludes Francine from his new club.

## **Completing Your Thought**

(FINS, FEATHERS...)

FFF-002 (15:00) Gr. 2-3

A shell collection is the focus for a lesson on organization.

## **Compound Sentences**

(WRITE CHANNEL)

WC-003 (15:00) Gr. 3-4

Teaches the use of "and" and "but" in compound sentences.

## **Creating Your Sentences**

(FINS, FEATHERS...)

FFF-005 (15:00) Gr. 2-3

Greg learns to answer questions as he writes about the zoo.

## SPOTLIGHT ON FEBRUARY PROGRAMS, CONTINUED

**Dave's Necklace**

(SHORT STORY)

STR-003 (15:00) Gr. 7-8

The false judgment of a slave leads to disaster.

**The Devil & Macaroni Pizza**

(GOSPEL OF ST. BERNARD)

SB-005 (22:00) Gr. K-2

Daniel, Jennifer, and Bernie are faced with temptation.

**Do It My Way**

(WORKING TOGETHER)

GET-010 (15:00) Gr. 3-5

Lydia and her friends have to deal with bossiness.

**Dr. De Soto**

(STORY CIRCLE)

SF-048 (11:00) Gr. K-3

A fox with a toothache consults a mouse dentist.

**Dolphin Adventure: A True Story****The Year of the Panda**

(COVER TO COVER)

COV-003 (15:00) Gr. 3-4

Two rescue stories feature baby animals.

**DRAW ALONG**

(15:00 Each) Gr. 2-3

DRA-020: **People in Action**

Moving figures.

DRA-021: **Cars & Trucks**

Recreational vehicle.

DRA-023: **Outer Space**

Planetary scene.

**Don't Make Me Stop This Car!**

(GETTING ALONG)

GET-004 (15:00) Gr. K-2

Vignettes model how to stop annoying behavior.

**Early European Settlements**

(TRACKS)

TRA-003 (15:00) Gr. 4-8

A stop at Jamestown is a chance to learn about the early settlers.

Related Video:

**A Lion to Guard Us**, p. 9.**Elizabeth Blackwell**

(PORTRAITS)

POR-003 (15:00) Gr. 5-8

America's first female doctor helped women and children in need.

**Energy**

(TAKE A LOOK)

TAL-020 (10:00) Gr. 2-4

Moving toys demonstrate basic principles of energy.

**Exploring Ideas**

(BIG A)

BA-003 (15:00) Gr. 1-3

A master shows how to make Javanese shadow puppets.

**Finding Area By Covering**

(IT FIGURES)

FIG-020 (12:00) Gr. 4

Students measure the clubhouse floor.

**Finding Equivalent Fractions**

(IT FIGURES)

FIG-019 (15:00) Gr. 4

Cliff uses equivalent fractions at a pizza parlor.

**Fish**

(UP CLOSE &amp; NATURAL)

UP-004 (13:00) Gr. 1-4

Louise gets up close to a trout, a sting ray, and a sun fish.

**Fitness**

(ALL FIT)

SG-009 (15:00) Gr. 3-4

Exercise is a natural and necessary part of life.

**ELECTRONIC FIELD TRIP****Flames of Freedom**

(LIVE FROM COLONIAL

WILLIAMSBURG)

(60:00) Gr. 4-8

Communicate with the past by attending a costumed dramatization of slave rebellions from colonial times to John Brown's Raid.

**Flexibility**

(ALL FIT)

SG-013 (15:00) Gr. 3-4

Exercises work on the ability to bend, reach, and twist.

**The Force of Lift, Meteorites, & Tree-Friendly Paper**

(NEWTON'S APPLE)

NA-004 (30:00) Gr. 6-9

Can meteorites attack the earth? And how can we save trees?

**Forest Ecosystems & Ergonomics**

(NEWTON'S APPLE)

NA-005 (30:00) Gr. 6-9

Old-growth forests are complex communities.

**Fractions 2**

(MATH WORKS)

MW-020 (15:00) Gr. 5

Find out about fractions in math and music.

**Friction: Getting a Grip**

(3-2-1 CONTACT)

CLS-025 (15:00) Gr. 4-6

Friction makes roller coasters, skis, snakes, and people go forward.

**Getting Ideas**

(BIG A)

BA-002 (15:00) Gr. 1-3

Take a visit to the zoo and meet fabulous frog artist David Gilhuly.

**Giving Thanks: A Native American****Good Morning Message**

(READING RAINBOW 1)

RR-021 (30:00) Gr. K-3

An Iroquois prayer celebrates nature, and LeVar visits a pueblo.

**The Golden Rule**

(GOSPEL OF ST. BERNARD)

SB-004 (20:00) Gr. K-2

New neighbors arouse prejudice because they don't speak English.

# Calendar Highlights

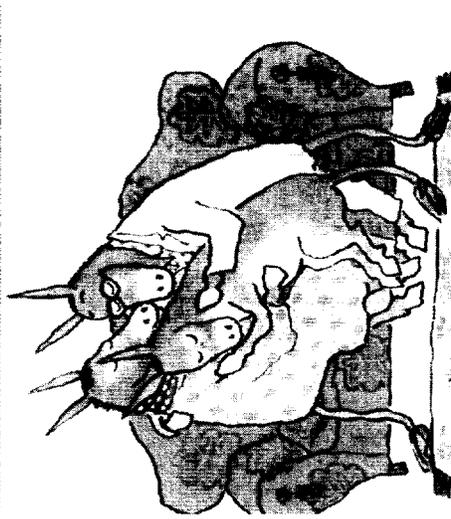
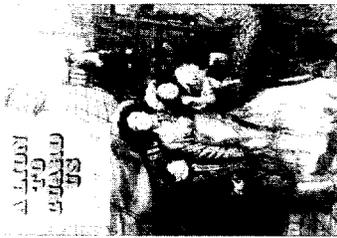
MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY



5

8:45 *What is a Fish?* Ch 10  
 8:55 *Judge Not* Ch 12  
 9:10 *It's Mine!* Ch 10  
 9:30 *Opt: An Illusionary Tale* Ch 10  
 10:25 *Benedict Arnold* Ch 12  
 10:45 *Place Value of Large Numbers* Ch 12  
 1:40 *Owl Moon* Ch 10  
 1:55 *Drawing People in Action* Ch 12

40

6

8:30 *CNN Health* Ch 10  
 9:30 *Patterns with Ten* Ch 12  
 11:00 *Completing Your Thought* Ch 12  
 11:00 *Animal Adaptations* Ch 10  
 11:20 *Airpowered Architecture* Ch 12  
 1:05 *You Bug Me* Ch 10  
 1:30 *Cinderella & Me* Ch 12  
 1:55 *Body Design* Ch 12  
 2:00 *Summer Birds* Ch 10

40

7

9:15 *Adjective Modification* Ch 10  
 9:30 *Let's Explore Animals* Ch 12  
 9:35 *Zin!Zin! A Violin* Ch 10  
 10:40 *Problem Solving: Information* Ch 12  
 11:15 *Pieces of Eight* Ch 12  
 1:30 *Rain* Ch 10  
 1:35 *Benedict Arnold* Ch 12  
 1:55 *Cover to Junie B. Jones Stories*

44

1

8:30 *CNN Health* Ch 10  
 +10:45 *I Don't Get It* Ch 12  
 +11:15 *Yellow Wallpaper* Ch 10  
 +11:30 *You Can Handle Anything* Ch 12  
 + 1:40 *Plant Adaptations* Ch 10  
 2:00 *Telling a Story in Art* Ch 12  
 2:00 *Sticks & Stones: DIFFERENT & SAME* Ch 10

47

2

9:00 *The Hating Movie* Ch 12  
 +10:25 *New York* Ch 10  
 11:05 *Social Behavior* Ch 12  
 + 1:05 *Why Is the Sky Blue?* Ch 10  
 1:30 *Just the Two of Us* Ch 12  
 + 1:45 *Trekking Across Our Land* Ch 10  
 + 1:10 *Introduction UP CLOSE & NATURAL* Ch 12

9

8:50 *You Bug Me* Ch 10  
 9:10 *Opt: An Illusionary Tale* Ch 10  
 10:25 *Mexico City* Ch 10  
 10:45 *St. Vincent de Paul* Ch 10  
 11:05 *Training Animals* Ch 12  
 1:05 *How Do People Survive Lighting?* Ch 10  
 1:10 *Animals Without Backbones* Ch 12  
 1:45 *Spain Comes to America* Ch 10

48

8

8:30 *CNN Science* Ch 10  
 9:00 *Davey & Goliath* Ch 12  
 9:05 *Owl Moon* Ch 10  
 9:30 *It's Mine!* Ch 10  
 11:15 *The Lull* Ch 10  
 1:05 *Zin!Zin! A Violin* Ch 10  
 1:25 *That's Me* Ch 10  
 2:00 *Getting Ideas* Ch 12

47

8:45 *Life Below* Ch 10  
 8:55 *Jennifer's Special Birthday* Ch 12  
 9:10 *Left Out* Ch 10  
 9:30 *Sam the Sea Cow* Ch 10  
 10:25 *Elizabeth Blackwell* Ch 12  
 10:45 *Other Estimation Strategies* Ch 12  
 1:40 *Dr. DeSoto* Ch 10  
 1:55 *Drawing Cars & Trucks* Ch 12

8:30 *CNN Health* Ch 10  
 9:30 *Sequences & Ratios* Ch 12  
 11:00 *Webbing Your Idea* Ch 12  
 11:00 *Habitats* Ch 10  
 11:20 *Cinematic Secrets* Ch 12  
 1:05 *Do It My Way* Ch 10  
 1:30 *Long Distance* Ch 12  
 1:55 *Training Principles* Ch 12  
 2:00 *Won't Know Til I Get There* Ch 10

9:15 *Compound Sentences* Ch 10  
 9:30 *Let's Explore Water* Ch 12  
 9:35 *Oxcart Man* Ch 10  
 10:40 *Finding Equivalent Fractions* Ch 12  
 11:15 *In a Heartbeat* Ch 12  
 1:00 *Officer Bob* Ch 12  
 1:30 *Waste* Ch 10  
 1:35 *Elizabeth Blackwell* Ch 12  
 1:55 *Dolphin Adventure/Year of the Panda* Ch 12

8:30 *CNN Science* Ch 10  
 9:05 *Dr. DeSoto* Ch 10  
 9:30 *Left Out* Ch 10  
 Special Event: *Electronic Field Trip* 10:00-11:00  
*Flames of Freedom* Ch 8  
 10:45 *I'll Decide* Ch 10  
 11:15 *Dave's Necklace* Ch 10  
 1:05 *Oxcart Man* Ch 10  
 2:00 *Exploring Ideas* Ch 12

8:50 *Do It My Way* Ch 10  
 9:10 *Sam the Sea Cow* Ch 10  
 10:25 *Moscow* Ch 10  
 10:45 *St. Therese of Lisieux* Ch 10  
 11:05 *Air Is Matter* Ch 12  
 1:05 *Why Does Helium Make Your Voice High* Ch 10  
 1:10 *Insects* Ch 12  
 1:45 *Early European Settlements* Ch 10

## 19

### Holiday - Presidents Day

## 20

8:30 *CNN Health* Ch 10  
 9:30 *Tessellations/Transformations* Ch 12  
 11:00 *Writing Your Sentences* Ch 12  
 11:00 *Rocks* Ch 10  
 11:20 *Force of Lift* Ch 12  
 1:05 *He Said, She Said* Ch 10  
 1:30 *Play Ball* Ch 12  
 1:55 *Warm Up, Cool Down* Ch 12  
 2:00 *Agony of Alice* Ch 10

## 21

9:15 *When, Where, How* Ch 10  
 9:30 *Let's Explore Light & Shadows* Ch 12  
 10:40 *Finding Area* Ch 12  
 11:15 *Muscles* Ch 12  
 1:00 *Ready or Not* Ch 12  
 1:30 *Energy* Ch 10  
 1:35 *John James Audubon* Ch 12  
 1:55 *A Lion to Guard Us* Ch 12

## 22

8:30 *CNN Science* Ch 10  
 9:05 *Sylvester & the Magic Pebble* Ch 10  
 9:30 *Don't Make Me Stop This Car* Ch 10  
 10:45 *Sticks & Stones: LOOK-ING INSIDE OUT* Ch 10  
 11:15 *Village Singer* Ch 10  
 11:30 *The Golden Rule* Ch 12  
 2:00 *Tools & Materials* Ch 12

## 23

8:50 *He Said, She Said* Ch 10  
 9:10 *Silent Lotus* Ch 10  
 10:25 *Hong Kong* Ch 10  
 10:45 *St. Francis of Assisi* Ch 10  
 11:05 *Friction* Ch 12  
 1:05 *Why Don't Satellites Fall* Ch 10  
 1:10 *Fish* Ch 12  
 1:45 *Seeds of Revolution* Ch 10

## 26

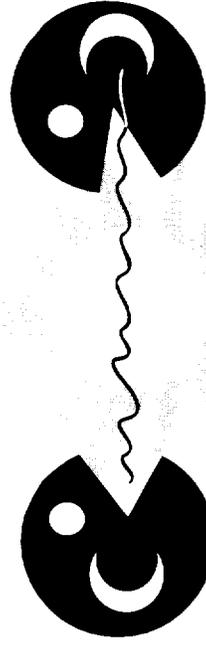
8:45 *Armed & Dangerous* Ch 10  
 8:55 *Devil & Macaroni Pizza* Ch 12  
 9:10 *My Way* Ch 10  
 9:30 *Sophie & Lou* Ch 10  
 10:25 *John Muir* Ch 12  
 10:45 *Collecting Data* Ch 12  
 1:10 *Tracks* Ch 12  
 1:40 *Blueberries for Sal* Ch 10  
 1:55 *Drawing Outer Space* Ch 12

## 27

8:30 *CNN Health* Ch 10  
 9:30 *Networks, Paths & Knots* Ch 12  
 11:00 *Creating Your Sentences* Ch 12  
 11:00 *Oceans* Ch 10  
 11:20 *Forest Ecosystems* Ch 12  
 1:05 *That's Not Right* Ch 10  
 1:30 *The Club* Ch 12  
 1:55 *Flexibility* Ch 12  
 2:00 *Stone Fox* Ch 10

## 28

8:50 *Blueberries for Sal* Ch 10  
 9:15 *Adjective Clauses* Ch 10  
 9:30 *Let's Explore Sound* Ch 12  
 9:35 *Giving Thanks: Native American Message* Ch 10  
 10:40 *Making Sense of a Big Number* Ch 12  
 11:15 *Standing Tall* Ch 12  
 1:00 *Rags & Buttons* Ch 12  
 1:30 *Air Pressure* Ch 10  
 1:35 *John Muir* Ch 12  
 1:55 *The Big Wave* Ch 12



+ Series begins Spring run. Check the Broadcast Catalog for repeat times and channels.



SPOTLIGHT ON FEBRUARY PROGRAMS, CONTINUED



**Habitats: Who Needs Bugs?**

(SCIENCE FOR YOU)

SY-003 (14:00) Gr. 4-6

A zoo's coral reef shows how organisms in a habitat form a community.

**The Hating Movie**

ST-112 (15:00) Gr. 2-5

A mistake in communication pushes a friendship to the edge.

**He Said, She Said**

(WORKING TOGETHER)

GET-011 (15:00) Gr. 3-5

A misinterpreted message causes an argument.

**Hong Kong**

(I LOVE MY CITY)

ST-123 (13:00) Gr. 4-6

Tony and his best friend explore their seaside city.

**How Do People**

**Survive Lightning Strikes?**

(INQUIRING MINDS)

IM-002 (8:00) Gr. 6-9

Learn how people deal with static and current electricity.

**How Does It Feel?**

(GETTING ALONG)

GET-001 (15:00) Gr. K-2

Laura learns to interpret body language as a clue to emotions.

**I Don't Get It**

(LOOKING INSIDE OUT)

IO-001 (15:00) Gr. 3-5

Working on communication skills helps a girl deal with confusion.

**I'll Decide**

(LOOKING INSIDE OUT)

IO-003 (15:00) Gr. 3-5

Children face problems because they won't take responsibility.

**In a Heartbeat**

(HEAD TO TOE)

HTT-003 (15:00) Gr. 1-2

When a heart pumps blood, it sends food and air throughout the body.

**In the Beginning**

(HEAD TO TOE)

HTT-001 (15:00) Gr. 1-2

Monica, who is pregnant, explains how a baby develops.

Related Theme Kit:

**How You Were Born**

**Insects**

(UP CLOSE & NATURAL)

UP-003 (14:00) Gr. 1-4

Meet a monarch butterfly, a praying mantis, and a cricket.

**Introduction**

(UP CLOSE & NATURAL)

UP-001 (13:00) Gr. 1-3

Louise tours the Science Center and comes across a snowy owl.

**It's Mine!**

(GETTING ALONG)

GET-002 (15:00) Gr. K-2

Sam and Laura get into an argument over sharing crayons.

**Jennifer's Special Birthday**

(GOSPEL OF ST. BERNARD)

SB-003 (21:00) Gr. K-2

Jennifer finds out that a family's love means more than a gift in a box.

**John James Audubon**

(PORTRAITS)

POR-004 (15:00) Gr. 5-8

Enthralled by American birds, Audubon painted each species life-size.

**John Muir**

(PORTRAITS)

POR-005 (15:00) Gr. 5-8

Muir fell in love with the giant redwoods and helped protect America's forests.

**Judge Not**

(GOSPEL OF ST. BERNARD)

SB-002 (25:00) Gr. K-2

Daniel and Jennifer learn not to make judgments based on prejudice.

**Junie B. Jones: Some Sneaky Peeky**

**Spying & A Little Monkey Business**

(COVER TO COVER)

COV-002 (15:00) Gr. 3-4

A kindergartner gets in trouble over a secret and makes a big mistake.

**Just the Two of Us**

JM-011 (15:00) Gr. 1-3

Vignettes teach how to communicate to resolve a conflict.

**Left Out**

(GETTING ALONG)

GET-003 (15:00) Gr. K-2

Robert is hurt when friends won't let him play with them.

**Let's Explore Animals**

(SCIENCE IS ELEMENTARY)

SIE-002 (15:00) Gr. K-2

Animal communities differ in size, characteristics, and habitats.

**Let's Explore Light and Shadows**

(SCIENCE IS ELEMENTARY)

SIE-004 (15:00) Gr. K-2

Viewers learn to experiment with light sources.

Related Loan Video:

**Me and My Shadow,**

(READING RAINBOW)

**Let's Explore Sounds**

(SCIENCE IS ELEMENTARY)

SIE-005 (15:00) Gr. K-2

Create sound and music by playing with vibrations and percussion.

**Let's Explore Water**

(SCIENCE IS ELEMENTARY)

SIE-003 (15:00) Gr. K-2

Explains where water comes from and why it's so important.



## SPOTLIGHT ON FEBRUARY PROGRAMS, CONTINUED

**Life Below**

(SCIENCE OF THE SEA)

SOS-003 (15:00) Gr. 4-8

Undersea photographers explore Echinoderms, Crustacea, and Porifera.

**A Lion to Guard Us**

(COVER TO COVER)

COV-004 (15:00)

Gr. 3-4

Amanda takes a long and perilous journey from London to Jamestown.

**Living and Growing**

(SCIENCE OF THE SEA)

SOS-004 (15:00) Gr. 4-8

Learn about the ocean community's food chain.

**Long Distance**

(DIFFERENT &amp; THE SAME)

DIF-003 (15:00) Gr. 1-3

Bernardo is left out because he speaks Spanish.

**The Lull**

(SHORT STORY)

STR-002 (15:00) Gr. 7-8

A misunderstanding creates a chain of humorous events.

**Making Sense of a Big Number**

(IT FIGURES)

FIG-021 (14:00) Gr. 4

Shows how to visualize objects in large quantities.

**Mexico City**

(I LOVE MY CITY)

ST-121 (13:00) Gr. 4-6

Carolina's historic city is 6600 feet above sea level.

**Moscow**

(I LOVE MY CITY)

ST-122 (13:00) Gr. 4-6

Luba loves her snowy city, with beautiful churches and golden bells.

**Muscles: Holding You Together**

(HEAD TO TOE)

HTT-004 (15:00) Gr. 1-2

Bob uses a marionette to explain the body's muscle system.

**My Way**

(GETTING ALONG)

GET-005 (15:00) Gr. K-2

Amanda doesn't know how to deal with a bossy neighbor.

**Networks, Paths, & Knots**

(MATH VANTAGE)

MV-005 (15:00) Gr. 6-9

Euler's research is connected with current network theory.

**New York**

(I LOVE MY CITY)

ST-124 (13:00) Gr. 4-6

Natalia tells about life on a houseboat on the Hudson River.

**Officer Bob**

(DAVEY &amp; GOLIATH)

DG-022 (15:00) Gr. K-2

Davey learns a lesson about following rules.

**Opt: An Illusionary Tale**

(READING RAINBOW 2)

RR-043 (30:00) Gr. K-3

A magic story explores optical illusions, and a painter tricks the eye.

**Other Estimation Strategies**

(MATH WORKS)

MW-019 (15:00) Gr. 5

Two shopping trips demonstrate ways to estimate costs.

**Owl Moon**

(STORY CIRCLE)

SF-047 (8:00) Gr. 1-3

A child and her father search moonlit woods for the Great Horned Owl.

**Ox-cart Man**

(READING RAINBOW 1)

RR-019 (30:00) Gr. K-3

A book about early New England inspires a visit to Old Sturbridge Village.

**Patterns with Ten**

(MATH VANTAGE)

MV-002 (15:00) Gr. 6-9

Teaches patterns in base ten place value, scientific notation, and the metric system.

**Pieces of Eight**

(DAVEY &amp; GOLIATH)

DG-021 (15:00) Gr. K-2

Davey reads *Treasure Island* and gets the idea to bury his club's money.**Place Value of Large Numbers**

(MATH WORKS)

MW-018 (15:00) Gr. 5

Heather and Jason learn math for their report on the solar system.

**Plant Adaptations:****Why Needles, Why Leaves?**

(SCIENCE FOR YOU)

SY-001 (15:00) Gr. 4-6

Shows how plants adapt to environments and the effects of pollution.

**Play Ball**

(DIFFERENT &amp; THE SAME)

DIF-004 (15:00) Gr. 1-3

Arthur is kept off the team because of a stereotype.

**Problem Solving:****Recognizing Necessary Information**

(IT FIGURES)

FIG-018 (15:00) Gr. 4

Solving a problem helps students win a prize.

**Rags and Buttons**

(DAVEY &amp; GOLIATH)

DG-024 (15:00) Gr. K-2

Davey learns about God's love from Sally's rag doll.

**Rain**

(TAKE A LOOK)

TAL-018 (10:00) Gr. 2-4

Experiments demonstrate the circle and show how to measure it.



SPOTLIGHT ON FEBRUARY PROGRAMS, CONTINUED

**Ready or Not**

(DAVEY & GOLIATH)  
DG-023 (15:00) Gr. K-2

Davey organizes family and friends to clean up a littered park.

**Rocks: When Is a Rock a Liquid?**

(SCIENCE FOR YOU)  
SY-004 (14:00) Gr. 4-6

Shows how volcanoes produce rocks and what we can learn from them.

**St. Francis of Assisi**

(SAINTS ALIVE)  
SAL-007 (15:00) Gr. 3-5

Francis founded two religious orders to serve the sick and the poor.

**St. Therese of Lisieux**

(SAINTS ALIVE)  
SAL-013 (15:00) Gr. 3-5

Therese, a Carmelite nun, served God through a quiet life of prayer.

**St. Vincent de Paul**

(SAINTS ALIVE)  
SAL-015 (15:00) Gr. 3-5

Vincent de Paul gave his life to helping the homeless of France.

**Sam the Sea Cow**

(READING RAINBOW 2)  
RR-044 (30:00) Gr. K-3

The true story of a manatee inspires LeVar to visit Sea World.

**Seeds of Revolution**

(TRACKS)  
TRA-004 (15:00) Gr. 4-8

Travel on site to learn about Pilgrims, Puritans, and the Boston Tea Party.

**Sequences and Ratios**

(MATH VANTAGE)  
MV-003 (15:00) Gr. 6-9

Explains the Fibonacci Sequence and the Golden Ratio in nature and art.

**Silent Lotus**

(READING RAINBOW 2)  
RR-045 (30:00)  
Gr. K-3

A girl who is deaf and mute communicates in dance; LeVar learns sign language.



**Social Behavior: Living in Groups**

Jan. 31, Feb. 1 & 2  
CLS-005 (15:00) Gr. 4-6

Worker bees and baboons each have unique ways of communicating.

**Sophie and Lou**

(READING RAINBOW 2)  
RR-046 (30:00) Gr. K-3

A shy mouse reaches out through dance, and LeVar learns the mambo.

**Spain Comes to America**

(TRACKS)  
TRA-002 (15:00) Gr. 4-8

The travelers visit sites of early Spanish settlements.

**Standing Tall**

(HEAD TO TOE)  
HTT-005 (15:00) Gr. 1-2

Children learn which foods help their bones.

**Sticks & Stones**

(DIFFERENT & THE SAME)  
DIF-001 (13:00) Gr. 1-3

Cat-a-lion is the victim of name calling because he looks different.

**Sticks and Stones**

(LOOKING INSIDE OUT)  
IO-004 (15:00) Gr. 3-5

Explores situations that can make a person feel embarrassed.

**Stone Fox**

(MORE BOOKS...)  
MOR-005 (15:00) Gr. 5-6

Willy enters a dogsled race to save the family farm.

**The Summer Birds**

(MORE BOOKS...)  
MOR-002 (15:00) Gr. 5-6

A group of children meet a boy with a magical gift.

**Sylvester and the Magic Pebble**

(STORY CIRCLE)  
SF-049 (12:00) Gr. K-3

Sylvester turns himself into a rock to escape a hungry lion.

**Telling a Story in Art**

(BIG A)  
BA-001 (15:00) Gr. 1-3

Artist/author Margot Zemach shows how pictures tell a story.

**Tessellations & Transformations**

(MATH VANTAGE)  
MV-004 (15:00) Gr. 6-9

Tessellations occur in nature, architecture, and quilt patterns.

**That's Me**

(LOOKING INSIDE OUT)  
IO-002 (15:00)

Gr. 3-5

Iris loses confidence when she compares herself to her gifted older sister.

**That's Not Right**

(WORKING TOGETHER)  
GET-012 (15:00) Gr. 3-5

Children learn why unfair behavior makes it difficult for everyone.

**Tools and Materials**

(BIG A)  
BA-004 (15:00) Gr. 1-3

A wood sculptor carves a totem pole; Dale Chihuly makes glass with fire.

**Training Animals: Learning New Tricks**

Feb. 7, 8 & 9  
CLS-002 (15:00) Gr. 4-6

Stephanie puts a pig through its paces, and a Sea World trainer communicates with whales.



## SPOTLIGHT ON FEBRUARY PROGRAMS, CONTINUED

**Animal Communication**

Animals have their own ways to send a message.

February Videos

**Animal Adaptations**  
**Armed & Dangerous**  
**Dolphin Adventure**  
**Let's Explore Animals**  
**Sam the Sea Cow**  
**Social Behavior**  
**Training Animals**

Internet Connection

[www.seaworld.com](http://www.seaworld.com)

The Sea World website is a goldmine of animal facts and pictures. Check out dolphins and whales.

**LENDING LIBRARY**

Videos:

**The Adventures of Taxi Dog (K-3)**  
**Best Friends (K-3)**  
**Beaver Family (K-3)**  
**Animals: Diversity of Life (Gr. 6-9)**

Theme Kit:

**Witness: Endangered Species (Gr. 5-10)**

**Training Principles**

(ALL FIT)

SG-011 (15:00) Gr. 3-4

Frequency, intensity, and time are important guidelines in exercise.

**Trekking Across Our Land**

(TRACKS)

TRA-001 (15:00) Gr. 4-8

The American history series begins a second run with early migrations.

**Warm Up and Cool Down**

(ALL FIT)

SG-012 (15:00) Gr. 3-4

Warm-up and cool-down exercises improve performance.

**Waste**

(TAKE A LOOK)

TAL-019 (10:00) Gr. 2-4

Jeffrey plants a "reverse garden" to watch how things decay.

**Webbing Your Idea**

(FINS, FEATHERS...)

FFF-003 (15:00) Gr. 2-3

A "idea web" helps writers organize words into categories.

**What Is a Fish?**

(SCIENCE OF THE SEA)

SOS-002 (15:00) Gr. 4

Explores the characteristics of bony and cartilaginous fish.

**When, Where, How**

(WRITE CHANNEL)

WC-004 (15:00) Gr. 3-4

Learn to add "when," "where," and "how" information to a sentence.

**Why Does Breathing Helium Make Your Voice So High?**

(INQUIRING MINDS)

IM-003 (7:00) Gr. 6-9

Vocal sound is affected by the density of several elements.

**Why Don't Satellites**

**Fall Out of the Sky?**

(INQUIRING MINDS)

IM-004 (7:00) Gr. 6-9

Explains how satellites demonstrate Newton's laws of motion.

**Why Is the Sky Blue?**

(INQUIRING MINDS)

IM-001 (6:00) Gr. 6-9

Colors come from light and the electromagnetic spectrum.

**Won't Know Till I Get There**

(MORE BOOKS...)

MOR-003 (15:00) Gr. 5-6

Two boys break a law and are sentenced to work in a senior center.

**Writing Your Sentences**

(FINS, FEATHERS...)

FFF-004 (15:00) Gr. 2-3

A cage of budgies becomes the topic for paragraphs.

**You Bug Me!**

(WORKING TOGETHER)

GET-009 (15:00) Gr. 3-5

Children learn to deal with the bothersome actions of others.

**You Can Handle Anything**

(GOSPEL OF ST. BERNARD)

SB-001 (25:00) Gr. K-2

Bernie teaches Daniel and Jennifer that God is always with them.

**The Village Singer**

(SHORT STORY)

STR-004 (15:00) Gr. 7-8

An aging soprano has her revenge on a 19th century New England congregation.

**The Yellow Wallpaper**

(SHORT STORY)

STR-001 (15:00) Gr. 7-8

A woman's mind breaks down when her creative energies are stifled.

**Zin! Zin! Zin! A Violin**

(READING RAINBOW 1)

RR-018 (30:00) Gr. K-3

A story and an orchestra teach the elements of music.





## ON VIEW AND ON LINE



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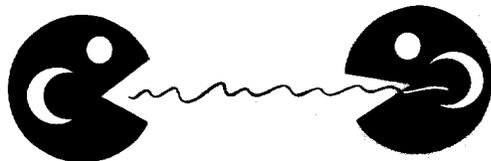
## GETTY EDUCATION INSTITUTE FOR THE ARTS

[www.artsednet.edu](http://www.artsednet.edu)

*Online Art Exhibit & Activities*

### Jacob Lawrence: Storyteller

Celebrate Black History Month with an online art unit. Jacob Lawrence is best known for his series paintings based on Harriet Tubman and the Great Migration.



## LAWRENCE HALL OF SCIENCE, BERKELEY

[www.lawrencehallofscience.org](http://www.lawrencehallofscience.org)

*Exhibit*

### T.Rex on Trial

*(Opens Feb. 3)*

A new interactive exhibit includes life-size skeletons, rare fossils, robotic dinosaurs, and hands-on activity stations. Created by Museum of the Rockies.



## LIBRARY OF CONGRESS

*Media Analysis Tools*

<http://lcweb2.loc.gov/ammem/ndlpedu/lesson.html>

This web address brings up Lesson Ideas from the the American Memory project of the Library of Congress, with suggestions for using primary sources in the classroom. Click on "Media Analysis Tools" to find worksheets to guide research on documents, objects, and photographs. For instance, a photo guide for "Brother, Can You Spare a Dime?" helps students appreciate the impact of the Depression.

## TECH MUSEUM, SAN JOSE

[www.thetech.org](http://www.thetech.org)

*Exhibit*

### 2001 Destination Space (Opens Feb. 9)

Compares the science fiction of the 1968 film *2001: A Space Odyssey* with real space exploration today.

*Inspiring Teachers Workshops*

Saturdays, Feb. 17 & March 17

Each of these 3-hour workshops gives an orientation to the museum and introduction to teaching science through design challenge & problem solving. Free to registered educators (pre-registration required) To RSVP, e-mail [cf@thetech.org](mailto:cf@thetech.org).

CELEBRATING 30 YEARS OF SERVICE

**CTN**

Catholic Telemedia Network

Fall 2000

# ON SCREEN

Telemedia Guide for High Schools

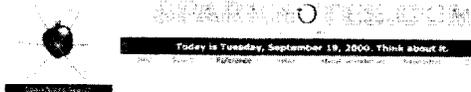
## WORDS MAKE A DIFFERENCE

### CREATE YOUR SCHOOL NEWSPAPER ONLINE!

Let technology guide you through creating a high school newspaper. The Web sites use templates and walk you through step by step to the finished product. Select news feeds from a large selection of national and local newspapers (p.2).

### THE LANGUAGE OF POLITICS

Focuses on the upcoming presidential election as a way to integrate the Internet into the curriculum. Explore the power of voting online and up to the minute polls combined with CTN's thought provoking videos on character, the political process, and the U.S. Constitution (p.3).



### THE POWER OF WORDS— LITERATURE AND WRITING

Looking for something new? CTN's selection of Web-based teaching guides and videos offer both veteran and new teachers fresh ideas for discussions of classic literature, the creative process, and class projects (p. 4-5).

### UNDERSTANDING CELLS AND GENETICS

Resources range from an Electronic Field Trip from The Howard Hughes Medical Institute via CTN-TV to Web tutorials and videos on Cells, DNA, and Genetics (p.6-7).



CTN website, [www.ctnba.org](http://www.ctnba.org)

### NEW SERIES FROM CTN

Titles include a series for teens facing everyday pressures called **PEACE TALKS** by Michael Pritchard, and **HEART OF THE DRAGON** offering a fascinating picture of the complex Chinese culture (p.8).

All Web sites have been reviewed by CTN staff. Please email questions and comments to [laurel@ctnba.org](mailto:laurel@ctnba.org)

### Inside...

- Creating A School Newspaper on line.....2
- The Language of Politics.....3
- The Power of Words.....4-5
- Understanding Cells and Genetics.....6-7
- New Video Series .....8



## CREATING A SCHOOL NEWSPAPER ONLINE

Select USA from the pull down menu, and type in your school's zip code. Next, click on your school. If it is not listed, click on "Add a new school." Complete the required information and click on "Sign Up."

To see the top 10 Online High School newspapers:  
Go to <http://www.highwired.com/>  
Click on Newspapers.  
Click on "See the Top 10 online newspapers" listed under "Programs."

THE ELEVENTH ANNUAL  
POSTER CONTEST SPONSORED BY:  
THE CHRISTOPHERS  
<http://www.christophers.org>

**Theme: You Can Make a Difference**  
Students in Grades 9 through 12 are invited to interpret the theme in an original poster.

**Prizes:** 1st Prize \$1,000 2nd Prize \$500 3rd Prize \$250 plus five honorable mention prizes of \$50 each.

**Deadline:** Posters must be received by January 26, 2001.  
Winners Notified: April 20, 2001

*Send Entries To:* High School Poster Contest, The Christophers, 12 East 48th Street, New York, NY 10017  
(Posters Cannot Be Returned)

- Contest Rules:**
- \* Posters must include the statement "You can make a difference" and illustrate the idea that one person can change the world for the better.
  - \* Each poster must be the work of only one student.
  - \* The poster concept and design and any photos or artwork used must be the original work of the student entering.
  - \* Posters must be 15 x 20 inches in size, including border or mat, if used.
  - \* Entries must be received by January 26, 2001.
  - \* Posters will be judged on overall impact, effectiveness in conveying the theme, originality, and artistic merit. Judges' decisions are final.
  - \* All entries become the property of The Christophers.

**Online Entry Format Available At:**  
<http://www.christophers.org/poster.html>  
More details available at Web site

**CRAYON  
Online  
Newspaper**  
<http://www.crayon.net/>  
Allows for the creation of a simple online newspaper.

Once you register, you can select the newspapers from around the world that you want to appear on your own page. You are given your own site on the Web.

<http://www.highwired.net>  
Publish your school newspaper using online templates designed for journalism teachers, English teachers, and student journalists.

No programming or HTML knowledge required. Students cut and paste articles into easy-to-use templates. Editors review articles and advisers publish them easily and quickly. There is no limit to the number of articles or images, plus storage space for archives. News stories from *The New York Times* and other newspapers. Includes other resources such as an online dictionary and encyclopedia.

Getting Started with HighWired:

Go to [www.highwired.com](http://www.highwired.com)  
Click on "I am a teacher/staff member and I want to sign up for ePACK only."

## THE LANGUAGE OF POLITICS

Use the upcoming presidential election as a starting point for a discussion on the power of words and persuasion. Use CTN videos to add to the online experience:



### VoteMatch

<http://www.govote.com/votematch/index.asp>

Take an online poll and find the presidential candidate that best matches your views!

### Freedom Channel

<http://www.freedomchannel.com/>



Features video on demand—of the candidates on the issues, the candidates going head-to-head, the candidates in their campaign spots. This site is nonprofit, and nonpartisan.

### Politics Only Search Engine

<http://politicalinformation.com/>

### Lesson Plans from the New York Times - covers news of the day

<http://www.nytimes.com/learning/>

A great set of lesson plans and discussion topics based on The New York Times headlines of the day. The site is geared to students in grades 9-12.

### Related CTN Videos

#### **A Leader of Character**

TTC-619 (60:00)

Page 72 in the H.S. catalog

What are the characteristics of leadership, and can they be taught? Sam Donaldson is the moderator.

#### **What is Government and What Should it Do?**

CW-001 (15:00)

Page 82 in the H.S. catalog

The tenants of a house converted to apartments are in conflict with each other over placing campaign signs on the lawn, late-night partying, and playing loud music. Concepts for discussion: authority, power, consent, individual rights, and ordered liberty.

#### **THE U.S. CONSTITUTION**

Award-winning journalist Bill Moyers explains the history and content of the U.S. Constitution. Using a combination of dramatic and documentary formats, each program explores a basic concept in the Constitution. In case studies, teenagers are involved with questions of what rights and freedoms are guaranteed by the document. Descriptions for each video can be found on Page 91 in the H.S. catalog. These videos are 30:00 min. each.

Titles include:

#### **Limited Government**

USC-001

#### **Federalism**

USC-002

#### **Separation of Powers**

USC-003

#### **Freedom of Expression**

USC-004

#### **Equal Protection of the Laws**

USC-005

#### **The Constitution and the Economy**

USC-006



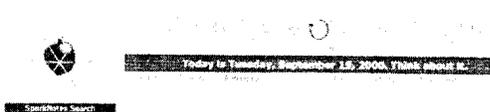
## THE POWER OF WORDS

### Teaching Guides for English Class

#### Outta Ray's Head

<http://www.cgocable.net/~rayser/index.htm>

Lesson plans, handouts, and ideas from a high school English teacher.



#### Spark Notes

<http://www.sparknotes.com>

Study guides written and produced exclusively by Harvard students and graduates. Select the book you are interested in and then choose either; Context, Character, Summary, a specific chapter, study questions, or visit the message board and/or chat room.

#### SDCOE CyberGuides for Grades 9-12

<http://www.sdcoe.k12.ca.us/score/cy912.html>

CyberGuides are supplementary, standards-based, web-delivered units of instruction centered on core works of literature. They are designed for the classroom with one online computer. Each CyberGuide contains a student and teacher edition, standards, a task and a process by which it may be completed, teacher-selected web sites and a rubric.

#### Ballantine and Random House Resources for Secondary Teachers

<http://www.randomhouse.com/BB/teachers>  
Scroll down and click on "Teacher's Guides." The teacher's guides are designed to help high school educators by providing questions that explore reading themes, test reading skills and evaluate reading comprehension.

### Companion Videos From CTN

#### *The Power of Words*

TTC-663 (60:00)

Page 22 in the H.S. catalog

Why does a writer write? Is writing the product of inspiration or perspiration? What are the limits and possibilities of words? The panel of guests including Stephen E. Ambrose, Rita Dove, George Lucas, Carol Shields, Alan K. Simpson, and Amy Tan discuss these essential questions about the nature of the creative process and the life of the writer. They share the personal heartaches, disappointments, and losses that are part of the writer's material as well as the rewards of creative productivity and success.

#### *So You Want to be a Writer - I*

Achievement TV

TTC-485 A/B (55:00)

Page 22 in the H.S. catalog

The focus of this program is on the creative process of writing, and explores how creative writing inspires one to utilize the natural inclination to imagine, invent and pretend. The discussions are shaped by the writers Rita Dove, John Grisham, Thomas McGuane, and Agnes Nixon. Program Focus: Language Arts, Communications, and Social Science.

#### *So You Want to be a Writer - II*

Achievement TV

TTC-546 (60:00)

Page 22 in the H.S. catalog

High School students from across the country discuss with prize winning journalists, novelists and poets their personal experiences, struggles, and achievements in the field of writing and how writing has shaped their lives. This program explores how writing inspires one to utilize the natural inclination to imagine, to invent and to pretend. Program guests include John Grisham, Russell Baker, and Tom Clancy. Program Focus: Language Arts, Communications, and Social Science.

## The Power of Words, Continued

### American Author Series and Related Web Sites

A series of biographies give historical background on each writer and make connections with themes in their work.

Page 13 in the H.S. catalog

#### Ernest Hemingway

AL-028 (30:00)

Documentary video explores the links between key events in Hemingway's life with *A Farewell to Arms*, *For Whom the Bell Tolls* and *The Old Man and the Sea*.

#### F. Scott Fitzgerald

AL-030 (30:00)

The success of Fitzgerald's novel *This Side of Paradise* enabled him to marry Zelda Sayre and enjoy celebrity status and a writing career in Hollywood. But Fitzgerald had a dark side, which appears in two of his best known works—*The Great Gatsby* and *Tender Is the Night*.

#### Herman Melville

AL-031 (30:00)

A short biography connects Melville's life at sea with his major works—*Moby Dick*, *Billy Budd*, and *Typee*. In later life the author became a customs official to support himself and died in obscurity.

#### John Steinbeck

AL-027 (30:00)

Winner of the Nobel Prize in 1962, Steinbeck first achieved fame with the publication of *Tortilla Flat* in 1935. This program shows scenes of his life in the Salinas Valley, and explains his involvement in politics during World War II and the Vietnamese war.

#### William Faulkner

AL-029 (30:00)

Faulkner's life was deeply entwined with the passionate personality of the South. This biography explores settings and scenes for *Sound and Fury*, *Absalom Absalom*, and *As I Lay Dying*.

### Web Sites on American Authors

#### Literature Resources by Century

<http://www.teleport.com/~mgroves>

#### The High School Hub

<http://www.highschoolhub.org/hub/english.htm>

Look under Literature Guides.

### Searching for Meaning in Words

#### Webster's Revised Unabridged Dictionary

[http://humanities.uchicago.edu/forms\\_unrest/webster.form.html](http://humanities.uchicago.edu/forms_unrest/webster.form.html)

#### Roget's Thesaurus

<http://www.thesaurus.com/>

Browse the thesaurus through headword or the six broad categories into which Mr. Roget classified the entire vocabulary of the English language: abstract relations, space, matter, intellect, volition, and affection.

#### Encyclopedia.com

<http://www.encyclopedia.com/>

An online encyclopedia covering a wide variety of topics useful for research papers.

#### Xlation.com

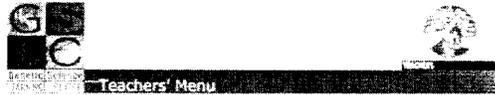
<http://www.xlation.com>

1600 Glossaries and 60 online grammar sites.



## UNDERSTANDING CELLS AND GENETICS

### Internet Sites and CTN Videos



<http://gslc.genetics.utah.edu/teachers.html>

This site gives background information on genetic inheritance and shows how traits are passed on. The section for teachers contains online and hands-on classroom activities. Click on "Thematic Units" for other instructional ideas.



<http://vector.cshl.org/dnaftb/asp/splashtable.asp>

DNA From the Beginning—A multimedia tutorial on the basics of DNA and heredity. Click on "View Tutorial" for an overview of genetics. Click on "Enter" for a list of topics that are covered.

<http://www.biointeractive.org/grants/lectures/biointeractive/vlabs.html>

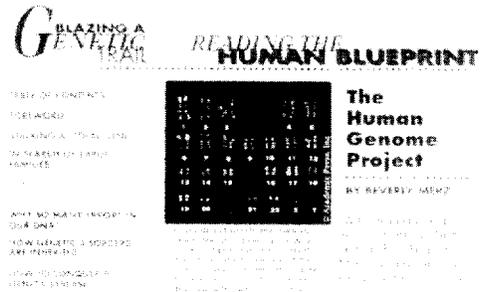
Virtual labs from the Howard Hughes Institute.

<http://www.hhmi.org/askascientist/index.html>

Email a scientist involved with the study of genetics.

<http://vector.cshl.org/dnaftb>

"DNA from the Beginning" is organized around key concepts. The science behind each concept is explained through the use of animation, an image gallery, video interviews, problem, biographies, and links. There are three sections to choose from: Classical Genetics, Molecules of Genetics, and Organization of Genetic Material.



<http://www.hhmi.org/GeneticTrail/reading/read.htm>

An Introduction to the Human Genome Project from the Howard Hughes Medical Institute.

### CTN Videos on Genetics

**The Genetic Revolution and the Right to Privacy**

TTC-424 A/B (55:00)

Page 49 in the H.S. catalog

Genetic Engineering raises many new ethical issues, which are discussed in this video. For example, when advances in genetic engineering are applied to fingerprinting, gene therapy and governmental requests for testing, where is the line of privacy drawn?

**The Genetic Revolution and the Cure for Cancer**

TTC-501 A/B (60:00)

Page 50 in the H.S. catalog

This program focuses on the genetics and hereditary link associated with cancer.

**Understanding Cells and Genetics, Continued**

**CTN TV Presents:  
Clockwork Genes:  
Discoveries in  
Biological Time**

The 2000 Holiday Lectures —  
Howard Hughes Medical Institute  
for High School Students

**December 4 & 5, 2000**

Wonder why you feel sleepy as night approaches, or how bears know when to hibernate, or why some flowers open and close their petals depending on the time of day? Welcome to the world of biological clocks...

Explore the nature of the biological clock, the molecular timepiece that controls sleep, body temperature, and other aspects of physiology and behavior. These four one-hour lectures will be broadcast by CTN.

Monday, December 4th—Lectures 1 and 2  
Lecture 1: 9:00 A.M.-10:00 A.M. PST Ch. 8  
Title: *Biology in Four Dimensions*

Lecture 2: 1:00-2:00 P.M. PST Ch. 8  
Title: *Unwinding Clock Genetics*

Tuesday, December 5th—Lectures 3 and 4  
Lecture 3: 9:00 A.M.-10:00 A.M. PST Ch. 8  
Title: *Perfect Timing*

Lecture 4: 1:00-2:00 P.M. PST Ch. 8  
Title: *The Mammalian Timekeeper*

Online: <http://www.hhmi.org/grants/lectures/>

Click on "Science Q and A" to submit questions to the scientists. Visit site for background information.

To Register:  
Call CTN at 650.326.7850, Ext. 10.  
**No fee**

**Companion Videos  
From CTN**

**Understanding Cells**

3-Part Series (40:00 Total)  
Page 51 in the H.S. catalog  
Discussion Guide Available

The role of cells in living things is presented with beautiful live-action images, microphotography, and animation.

**HBS-009 Part 1: Life and Cells**

Shows how cells join together to create tissues, organs, organ systems, and whole organisms.

**HBS-010 Part 2: How Cells Work**

Explains the role of DNA and the genetic code.

**HBS-011 Part 3: How Cells Reproduce**

Illustrates how DNA is replicated and outlines the basic stages of mitosis and meiosis.

**MITOSIS AND MEIOSIS**

2-Part Series (23:00 Total)  
Page 51 in the H.S. catalog

**Part 1: Mitosis**

HBS-012  
Exceptional microscopic images and animated sequences explain the interphase state, DNA replication, and chromosome structure. Offers a detailed look at each stage of mitosis.

**Part 2: Meiosis**

HBS-013  
This segment explores the diploid and haploid states, at fertilization, and at the various stages of meiosis.



## TWO NEW VIDEO SERIES FROM CTN



**CATHOLIC  
TELEMEDIA  
NETWORK**

324 Middlefield Road  
Menlo Park, CA 94025

Information:  
650/326-7850  
fax: 650/326-4605  
CTN Web Page:  
[www.ctnba.org](http://www.ctnba.org)

ON SCREEN

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items, questions, and  
comments to:  
[laurel@ctnba.org](mailto:laurel@ctnba.org)  
or phone:  
650/326-7850,  
ext. 26

### **PEACE TALKS** **Six NEW CTN Videos** **from Michael Pritchard.**

Michael Pritchard, humorist, youth activist, and former probation officer is the driving force in six talk shows with teenagers, who tell about the violence in their lives. Peer education is the method: by talking it through, they learn the power of choice. This award-winning series incorporates multiple approaches proven to be effective in reducing aggression and violence. The series is only available for loan. *Page 9 in the H.S. catalog*

Topics Include:

- \* Violence
- \* Conflict Resolution
- \* Substance Abuse
- \* Racism

### **Preventing Violence**

Loan Video (28:00)

A discussion of the pressures of gun and gangs points out the grave emotional toll of teen violence. Teaches three basic strategies for avoiding and reducing violence: predicting consequences, cooling down, and walking away.

### **Resolving Conflicts**

Loan Video (28:00)

Teens learn how communication skills can be used to prevent and deescalate violent situations along with steps to calm a situation down before it gets out of control.

### **Managing Your Anger**

Loan Video (28:00)

This program discusses the friction of daily life and shows how to recognize one's "anger buttons." Presents ways to express anger appropriately and shows how to cope with and release anger in non-hurtful ways.

### **Handling Dating Pressures**

Loan Video (28:00)

This program deals with common misunderstandings between the sexes, and discusses occasions when behavior crosses over into sexual harassment or sexual coercion. Teaches techniques for saying no to abuse.

### **Handling Peer Pressure and Gangs**

Loan Video (28:00)

Teens reflect on what peer pressure is and how it works. Teens learn what qualities to look for in true friendship and how that differs from negative peer pressure.

### **Stepping Up to Peace**

Loan Video (28:00)

The discussion elicits ways to break the chain of violence by developing concern for others and creating a positive sense of community. It explores the character traits of a nonviolent person: courage, tolerance, and respect.

### **HEART OF THE DRAGON —**

**NEW** for World History

Six programs from this series on world history. An award-winning series offers a fascinating picture of the complex Chinese culture. Peter Montagnon ("The Ascent of Man") and a team of leading filmmakers were given unprecedented access to the lifestyles of the Chinese people. Each program takes a theme common to all cultures. *Page 90 in the H.S. catalog*

*Available for request scheduling  
and for loan.*

HD-001 **Remembering** (57:00)

Modern China evolved from a past so distant that Westerners can barely conceive it.

HD-002 **Caring** (57:00)

The family and the neighborhood care for the young and the elderly. The Chinese culture is based on values of honor, courtesy, and respect.

HD-003 **Believing** (57:00)

The ancient teachings of Tao, Buddha, and Confucius now mingle with doctrines of Marx and Mao.

HD-004 **Living** (57:00)

Over 80% of China's 1 billion people are peasants, tending the state's land...

HD-005 **Understanding** (57:00)

Chinese technologists are still trying to recover from the effects of the Cultural Revolution.

HD-006 **Creating** (57:00)

Contemporary artists continue to convey traditional values with unconventional materials.