

# Technology Toolbox for Teachers

A Guide for Using Media in the Classroom



IDAHO  
PUBLIC  
TELEVISION

ELEMENTARY/MIDDLE SCHOOL EDITION

FEBRUARY 2002 VOLUME 4 ISSUE 6

## Study the Underground Railroad

**READING RAINBOW** Follow the **Drinking Gourd (30 min) (1yr)** airs **Monday, February 18 at 2:30/1:30 p.m. MT/PT**

Hidden in the lyrics of a simple sounding folk song sung by slaves are directions to the escape route known as the Underground Railroad. Join **READING RAINBOW** host LeVar Burton as he celebrates the road to freedom paved by the Underground Railroad.

Through children's books he introduces viewers to the history, heroes, stories and music of the African American culture that emerged from slavery. The Web site [gpn.unl.edu/rainbow](http://gpn.unl.edu/rainbow) has additional teaching and historical resources about the Underground Railroad.



**WHISPERS OF ANGELS: A STORY OF THE UNDERGROUND RAILROAD (1hr) (LL)** airs **Wednesday, February 20 at 7:00 p.m. MT/PT**

This documentary recounts the story of the critical Eastern Line of The Underground Railroad and its role in the 19th century anti-slavery movement in America. It focuses on the collaboration between white Quaker Abolitionist Thomas Garrett and William Still, a free, black anti-slavery activist. Their

efforts to help "conduct" thousands of fugitives to freedom. Helping them were legends like Harriet Tubman. From Maryland, the "corridor of courage" stretched to the streets of Philadelphia. Visit [www.whisperofangels.com](http://www.whisperofangels.com) for additional background information.

Due to statewide budget holdbacks we're unable to send out printed copies of our monthly newsletter *Technology Toolbox for Teachers* for the rest of this school year. The good news is that *Toolbox* will still be available, electronically, in expanded form, so encourage your peers to sign up to receive *Toolbox* e-mails, or download them off the Web! They can visit [idahoptv.org/learn](http://idahoptv.org/learn) to view online or send an e-mail to [learning\\_services@idptv.pbs.org](mailto:learning_services@idptv.pbs.org) to receive them by e-mail!

We plan on being able to provide a printed version of *Toolbox* next year, and will continue with our expanded electronic version as well. If you have any suggestions on how to make this resource more effective, please don't hesitate to drop us a line. Have a great month!

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## From Head to Toe - Learn About Human Health

**RIGHT TURNS ONLY (7, 30 min episodes) (LL)** airs **Tuesday, February 5 and 12 during the ITV blockfeed for teachers 1:00 a.m./12:00 midnight - 3:00/2:00 a.m. MT/PT**

This series teaches drug education to middle school students, particularly African-American and Hispanic youth. Visit [idahoptv.org/itv](http://idahoptv.org/itv) for episode information.

**THE SECRET LIFE OF THE BRAIN (1hr) (1yr)** continues with final two episodes on **Tuesday, February 5 and 12 at 8:00 p.m. MT/PT**

**DIALOGUE FOR KIDS The Brain (30 min) (UNL)** airs **Tuesday, February 12 at 2:00/1:00 p.m. MT/PT**

This month on **DIALOGUE FOR KIDS**, host Joan Cartan-Hansen will be joined by local scientists to answer your students' questions about the brain. Send questions by e-mail, [dialogue4kids@idptv.pbs.org](mailto:dialogue4kids@idptv.pbs.org); fax, (208) 373-7245, or call in live during the show 1-800-973-9800. The series' Web site [idahoptv.org/dialogue4kids/](http://idahoptv.org/dialogue4kids/) offers links to activities, lesson plans for use in the

classroom and streaming video to view the program online!

**NKOSI: A VOICE OF AFRICA'S AIDS ORPHANS (30 min) (1yr)** airs **Tuesday, February 12 at 10:30 p.m. MT/PT**

Twelve-year-old Nkosi Johnson, a South African boy, was born HIV positive and lived every day on the verge of death. Unlike most of the estimated 13 million African AIDS orphans, whose voices are often ignored, Nkosi became a conscience for his nation — a voice for a generation of children less fortunate than he.

**NATIONAL GEOGRAPHIC SPECIAL The Incredible Human Body (1hr) (1yr)** airs **Wednesday, February 27 at 7:00 p.m. MT/PT**

Scientific advancements and revolutionary imaging systems are dramatically changing the understanding of human anatomy. Cutting-edge technology ventures into the unexplored territory of the human body. Using 4-D imaging systems, scientists can now peek into the bodies of real people — right down to their stem cells.

## READING RAINBOW Contest Seeks Entries

Students in grades K-3 are invited to send their illustrated stories in for entry in the Eighth Annual Reading Rainbow Young Writers and Illustrators Contest. Stories can be fact or fiction, prose or poetry. They can also have math or science themes. K-1 student stories must contain 50-200 words, and 2nd-3rd grade student stories must contain 100-350 words. All stories need to have at least five original illustrations and must be printed (or typed) legibly. (An adult can help with this task.) Each grade is judged separately, with first, second and third place winners from each of our Idaho Public Television locations: KAID/KIPT (Boise), KISU (Pocatello) and KUID/KCDT (Moscow).

Visit our Web site [idahoptv.org/learn](http://idahoptv.org/learn) for contest rules and entry forms. All entries must be postmarked by March 29, 2002. Please feel free to duplicate the entry forms and contest rules for your students.



Visit our Web site [idahoptv.org/learn/](http://idahoptv.org/learn/) for additional classroom resources



## Dig Up Facts on Egyptian History

**EGYPT'S GOLDEN EMPIRE (2 hrs, 30 min) (1yr) airs Wednesday, February 27 at 9:00 p.m. MT/PT**

This special tells the story of the most extraordinary chapter of ancient Egypt — the rise and fall of history's first recorded empire. Egypt reached its apogee, becoming Earth's most important, feared and exuberant nation. The empire was forged 1,000 years after the time of the pyramid builders and lasted 500 years: 1567 BC to 1085 BC. EGYPT'S GOLDEN EMPIRE uses the words of the pharaohs and ordinary Egyptians of the era to tell the story. These unique records replace myth with history and

show the ancient people at work and play. Hatshepsut becomes the first female pharaoh. Nearly 150 years later, Akhenaten comes into power and the empire is thrown into religious oppression. Ramses II leads Egypt into an era of prosperity. After his fall, the ancient tombs are raided and Egypt's golden empire is left divided by civil war. The Web site

[www.pbs.org/empires/egypt/](http://www.pbs.org/empires/egypt/) includes interactive maps and timeline of key events and milestones, with 360-degree photos, which you can pan, zoom and tilt. It also features a teacher's guide and hieroglyphics translator activity for use in the classroom.

## Step Into the Past with a Look at Idaho's History

**VISIONS OF IDAHO airs (15, 15-minute episodes) (UNL) Thursday, February 7, 28 and March 7 during the ITV Blockfeed for teachers 1:00 a.m./12:00 midnight – 3:00/2:00 a.m. MT/PT**

VISIONS OF IDAHO explores the geography, history and people of the great state of Idaho.

Learn about Idaho's transition from territory to statehood, the industries that have helped shape Idaho's future and Idaho's contribution to the rest of the world. It is a perfect companion to 4th grade history curriculum.



## Professional Development Focuses on Assessment

**ASSESSMENT IN MATH AND SCIENCE: WHAT'S THE POINT? (8, 90 min episodes) (1yr) airs Friday mornings during the ITV blockfeed 1:00 a.m./12:00 midnight – 3:00/2:00 a.m. MT/PT**

This video workshop for K-12 teachers examines current assessment issues and explores strategies for making classroom assessment practices more effective.

The series examines what assessment reform looks like. It provides information you can use with standardized tests to focus your teaching so that student performance improves in the classroom as well as on these external measures of success.

This workshop series offers two graduate-level semester credits from Colorado State University.

Visit [www.learner.org/channel/workshops/assessment/](http://www.learner.org/channel/workshops/assessment/) for detailed episode descriptions, course requirements and workshop structure.

### This Month's Math Resources on ITV:

There are special programs highlighting mathematics that you don't want to miss, airing this month during our instructional block feed for teachers 1:00 a.m./12:00 midnight – 3:00/2:00 a.m. MT/PT

Set your VCR and build your math media library. Visit [idahoptv.org/itv](http://idahoptv.org/itv) for additional information.

**CLOUDS ARE NOT SPHERES: THE LIFE AND WORK OF A MAVERICK MATHEMATICIAN (1hr) (1yr) airs Monday, February 4**

Those amazing fractals! This program profiles the scientist Benoit Mandelbrot whose extraordinary vision and genius has paralleled and reflected the very aspects of "new geometry." Throughout the program, Mandelbrot tells his story in his unique style, and is supported by interviews with a dozen contributors, including Nobel Laureate professor Ivan Giaever, mathematician Heinz-Otto Peitzgen and philosopher Pierre Roubinet.

**MATH TALK (22, 15 min. episodes) (LL) airs Monday February 4, 11, 18, and 25**

This series designed especially for classroom use in grades four through six is based on the award-winning Square One TV. MATH TALK will get your students excited about mathematics, talking about mathematics and — most importantly — improving their abilities in problem-solving, reasoning, math communication, and making connections. Visit the ITV Web-site [idahoptv.org/itv/mathtalk.html](http://idahoptv.org/itv/mathtalk.html) for complete episode descriptions.

**CHALLENGE OF THE UNKNOWN (7, 20 min. episodes) (LL) airs Monday, February 25 and March 4**

This series illustrates the key problem formulation processes we all use. It shows how people wrestle with a wide range of

problems in their everyday lives, and how problem solvers use math as a tool to make tasks easier. Comedy segments interspersed with documentary segments demonstrate how problems cannot be solved by someone who is not thinking but is just pushing ahead, trying to force the problem to yield an answer.

Other resources highlighting math in our regular program schedule include:

**STANDARD DEVIANTS If At First You Don't Succeed, Triangles (30 min) (1yr) airs Saturday, February 16 at 9:00/8:00 a.m. MT/PT**

This episode, aptly titled "Triangles," is an overview of the world of geometry. It explores the history behind the pythagorean theorem and explains exactly what postulates and theorems are, as well as delving deep into inductive reasoning and deductive reasoning respectively. Visit [www.pbs.org/standarddeviantstv/](http://www.pbs.org/standarddeviantstv/) for additional information.

**CYBERCHASE (30 min) (1yr) airs weekdays at 4:00/3:00 p.m. MT/PT**

Each episode takes kids on a thrilling adventure driven by a different math concept — from tackling time in ancient Egyptian tombs or making sense of numbers in a fractured fairy tale world. In their quest the heroes use minds, not muscles, to confront obstacles and danger. Visit the Web site [www.pbs.org/cyberchase](http://www.pbs.org/cyberchase) for great interactive math activities for fourth — eighth graders.

# FEBRUARY 2002



KAID 4 BOISE  
KIPT 13 TWIN FALLS  
KISU 10 POCATELLO  
KUID 12 MOSCOW  
KCDT 26 COEUR D'ALENE

ALL TIMES LISTED MT/PT

## Episode Listings for Daytime TV

### ADVENTURES FROM THE BOOK OF VIRTUES

Airs Sundays 10:30/9:30 a.m. MT/PT (1 year)

[pbskids.org/adventures/](http://pbskids.org/adventures/)

Day	Date	Episode #	Theme
Sa	3	107	Friendship
Sa	10	108	Loyalty
Sa	17	109	Respect
Sa	24	110	Faith

Day	Date	Episode #	Theme
Th	21	105	Area
F	22	106	Fractions
M	25	107	Patterns
T	26	108	Number Sense
W	27	109	Timekeeping
Th	28	110	Symmetry

### ARTHUR

Airs M-F, 7:00/6:00 a.m.; 10:00/9:00 a.m.; 3:30/2:30 p.m. MT/PT and Sundays, 9:30/8:30 a.m. MT/PT (1 year)

[www.pbs.org/arthur](http://www.pbs.org/arthur)

Based on the popular books by Marc Brown, Arthur and his friends embark on many adventures.

### BETWEEN THE LIONS

Airs M-F 11:00/10:00 a.m. MT/PT. Repeats at 5:00 p.m. PT only. (1 year) [www.pbs.org/lions](http://www.pbs.org/lions)

This series is designed to help children develop literacy skills.

Day	Date	Episode	Key Word & (Target Vowel)
F	1	113	box (short o, double o)
M	4	222	tweet (double e - ee)
T	5	105	star & night (r-controlled "a")
W	6	220	dream (ea)
Th	7	109	fuzzy (short u)
F	8	207	train (ai)
M	11	209	teacher (ea)
T	12	216	quest (short e)
W	13	217	spider (long i)
Th	14	210	last (short a)
F	15	206	click (short i)
M	18	208	hop (short o)
T	19	120	peppers (short e)
W	20	126	run (short u)
Th	21	223	knight (long i)
F	22	127	back (short a)
M	25	129	cub (short u, long u)
T	26	209	teacher (ea)
W	27	114	trick (short i)
Th	28	225	stop (short o)

### CLIFFORD THE BIG RED DOG

Airs M-F at 9:30/8:30 a.m. and 3:00/2:00 p.m. MT/PT Repeats at 4:30 p.m. PT (1 year) [www.pbs.org/clifford](http://www.pbs.org/clifford)

### CYBERCHASE

Airs M-F at 4:00/3:00 p.m. MT/PT (1 year)

[www.pbs.org/cyberchase](http://www.pbs.org/cyberchase)

Day	Date	Episode	Math Concept
F	1	110	Symmetry
M	4	111	Combinations
T	5	112	Logic
W	6	113	2- & 3-D Geometry
Th	7	114	Liquid Volume
F	8	115	Algebraic Variables
M	11	116	Codes
T	12	117	Line Graphs
W	13	118	Problem Solving
Th	14	119	Multiplication
F	15	101	Navigation
M	18	102	Finding Meaning from Data
T	19	103	Probability and Chance
W	20	104	Estimation



**PLAZA SESAMO (1 year) Airs Sundays at 8:00/7:00 a.m. MT/PT** Learn Spanish with the gang from Sesame Street!

### READING RAINBOW

Airs M-F at 2:30/1:30 p.m. MT/PT (1 year)

[gpn.unl.edu/rainbow/](http://gpn.unl.edu/rainbow/)

Day	Date	Episode #	Title/Theme
F	1	810	Sophie and Lou/World dance
M	4	901	Come a Tide/Natural disasters/dramatic weather
T	5	902	The Piggy in the Puddle/Clay creations
W	6	903	Seashore Surprises/The beach
Th	7	904	Through Moon and Stars and Night Skies/Adoption, families
F	8	905	Berlioz the Bear/Musicians
M	11	906	Amazing Grace/Inspirational women
T	12	907	The Furry News/Creating a newspaper
W	13	908	Mrs. Katz and Tush/Respect for the elderly
Th	14	909	The Salamander Room/Animal habitats
F	15	910	Silent Lotus/Sign language
M	18	1001	Follow the Drinking Gourd/Underground Railroad and freedom from slavery
T	19	1002	If You Give a Mouse a Cookie/Chain reactions
W	20	1003	Is This a House for Hermit Crab?/Animal habitats
Th	21	1004	And Still the Turtle Watched/Responsibility to nature & environment
F	22	1005	June 29, 1999/Science fiction
M	25	1006	Nosey Mrs. Rat/Good and bad curiosity
T	26	1007	Borreguita and the Coyote/Mexican-American folklore
W	27	1008	Summer/Characteristics and specialties of the seasons
Th	28	1009	Once There Was a Tree/Significance of trees

### SAGWA

Airs M-F at 7:30/6:30 a.m.; Also airs Sundays at 9:00/8:00 a.m. MT/PT (1 year) [www.pbs.org/sagwa](http://www.pbs.org/sagwa)

### ZOOM

Airs Monday-Friday 4:30/3:30 p.m. MT/PT (1 year)

[www.pbs.org/zoom](http://www.pbs.org/zoom)

Be sure to tune in on Friday afternoons when Idaho students are highlighted in ZOOM's special segment, ZOOM INTO ACTION.

### STANDARD DEVIANTS

Airs Saturday mornings 9:00/8:00 a.m. (1 year)

[www.pbs.org/standarddeviantstv/](http://www.pbs.org/standarddeviantstv/)

Day	Date	Episode	Title
Sa	2	223	Titus Andronicus
Sa	9	224	Sociology Secrets
Sa	16	225	If At First You Don't Succeed, Triangles
Sa	23	226	And Justice For All

Visit our Web site [idahoptv.org/kids](http://idahoptv.org/kids) for additional information



KAID 4 BOISE  
KIPT 13 TWIN FALLS  
KISU 10 POCATELLO

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

# Elementary/Middle School Calendar

ALL TIMES LISTED MT/PT

# FEBRUARY 2002



Find record rights:  
[idahoptv.org/what/edrights.html](http://idahoptv.org/what/edrights.html)

<p><b>3</b> Adventures From the Book of Virtues 10:30/9:30 am (W,TR) Nature Horses 8:00/7:00 pm (W)</p>	<p><b>4</b> ITV: Clouds Are Not Spheres: The Life and Work of a Maverick Mathematician, Math Talk #101-104 1:00 am/12:00 midnight - 3:00/2:00 am (W) Cyberchase 4:00/3:00 pm (Airs M-F afternoons)</p>	<p><b>5</b> ITV: Right Turns Only #1-5 1:00 am/12:00 midnight - 3:00/2:00 am (W) NOVA Secrets, Lies and Atomic Spies 7:00 pm (W,TR) Secret Life of the Brain The Adult Brain 8:00 pm (W,TR)</p>	<p><b>6</b> ITV: Standard Deviants Get Nervous, Teacher Request 1:00 am/12:00 midnight - 3:00/2:00 am (W,TR) Oregon Story: Rural.com 7:00 pm Queen's Story 9:00 pm</p>	<p><b>7</b> ITV: SDE Newscast, What's In the News?, Pollution and Solutions, NASA CONNECT, Visions of Idaho #1-4 1:00 am/12:00 midnight - 3:00/2:00 am (W,TR) Outdoor Idaho A Job with a View 8:00/7:00 pm (W) Dialogue Rural Economic Development 8:30/7:30 pm (W)</p>	<p><b>1</b> ITV: Assessment in Math and Science: What's the Point? Will This Be on the Test? Knowing vs. Understanding, Scienceline #102 Michael Beason 1:00 am/12:00 midnight - 3:00/2:00 am (W,TR) Idaho Reports 8:00 pm (W)</p>	<p><b>2</b> Standard Deviants Titus Andronicus 9:00/8:00 am (W,TR) National Geographic Volcano! 4:00/3:00 pm</p>
<p><b>10</b> Adventures From the Book of Virtues 10:30/9:30 am (W,TR) Nature White Elephants with Meg Ryan 8:00/7:00 pm (W) American Experience Jubilee Singers: Sacrifice &amp; Glory 10:00/9:00 pm (W,TR)</p>	<p><b>11</b> ITV: Math Talk #105-112 1:00 am/12:00 midnight - 3:00/2:00 am (W) Cyberchase 4:00/3:00 pm</p>	<p><b>12</b> ITV: Right Turns Only #6-7, Straight at Ya! 1:00 am/12:00 midnight - 3:00/2:00 am (W) Dialogue for Kids The Brain 2:00/1:00 pm (W) Secret Life of the Brain The Aging Brain 8:00 pm (W,TR) Nkosi: A Voice of Africa's AIDS Orphans 10:30 pm</p>	<p><b>13</b> ITV: Teacher Request 1:00 am/12:00 midnight - 3:00/2:00 am (W) Virsky: The Spirit of Ukraine 7:00 pm</p>	<p><b>14</b> ITV: SDE Newscast, What's In the News?, Lyric Language Italian Series 1&amp;2 1:00 am/12:00 midnight - 3:00/2:00 am (W) Outdoor Idaho The Frank Church Wilderness 8:00/7:00 pm (W) Dialogue 8:30/7:30 pm (W)</p>	<p><b>15</b> ITV: Assessment in Math and Science: What's the Point? Is this Going to Count?, Scienceline #104 1:00 am/12:00 midnight - 3:00/2:00 am (W,TR) Idaho Reports 8:00 pm (W)</p>	<p><b>16</b> Standard Deviants If At First You Don't Succeed, Triangles 9:00/8:00 am (W,TR) National Geographic Tigers of the Snow 4:00/3:00 pm</p>
<p><b>17</b> Adventures From the Book of Virtues 10:30/9:30 am (W,TR) Nature Dogs: The Early Years 8:00/7:00 pm (W) American Experience Monkey Trial 9:00/8:00 pm (W,TR)</p>	<p><b>18</b> ITV: Math Talk #113-120 1:00 am/12:00 midnight - 3:00/2:00 am (W) Cyberchase 4:00/3:00 pm</p>	<p><b>19</b> ITV: Real Science #505-508 1:00 am/12:00 midnight - 3:00/2:00 am (W,TR) NOVA Nazi Prison Escape 7:00 pm (W,TR) Navy Seals: The Silent Operation 8:00 pm American Masters Ralph Ellison: An American Journey 9:00 pm</p>	<p><b>20</b> ITV: Teacher Request 1:00 am/12:00 midnight - 3:00/2:00 am (W) Whispers of Angels: A Story of the Underground Railroad 7:00 pm</p>	<p><b>21</b> ITV: SDE Newscast, What's In the News?, Emerging Mexico, NASA Why Files The Case of the Inhabitable Habitat 1:00 am/12:00 midnight - 3:00/2:00 am (W,TR) Outdoor Idaho The Public's Land 8:00/7:00 pm (W) Dialogue Public Lands 8:30/7:30 pm (W)</p>	<p><b>22</b> ITV: Assessment in Math and Science: What's the Point? I Didn't Know This Was an English Class!, Scienceline #105 1:00 am/12:00 midnight - 3:00/2:00 am (W) Idaho Reports 8:00 pm (W)</p>	<p><b>23</b> Standard Deviants And Justice For All 9:00/8:00 am (W,TR) National Geographic Dragons of the Galapagos 4:00/3:00 pm</p>
<p><b>24</b> Adventures From the Book of Virtues 10:30/9:30 am (W,TR) Nature Wild Horses of Mongolia with Julia Roberts 8:00/7:00 pm (W) James Dean 10:00/9:00 pm</p>	<p><b>25</b> ITV: Math Talk #121-122, Challenge of the Unknown #1-4 1:00 am/12:00 midnight - 3:00/2:00 am (W) Cyberchase 4:00/3:00 pm</p>	<p><b>26</b> ITV: EcoSpeak: Coming to an Understanding #1-3 1:00 am/12:00 midnight - 3:00/2:00 am (W) NOVA The Missing Link 7:00 pm (W,TR) Witness to Hope 8:00 pm</p>	<p><b>27</b> ITV: Teacher Request 1:00 am/12:00 midnight - 3:00/2:00 am (W) National Geographic The Incredible Human Body 7:00 pm Egypt's Golden Empire The Warrior Pharaohs &amp; Pharaohs of the Sun &amp; The Last Great Pharaoh 9:00 pm (W,TR)</p>	<p><b>28</b> ITV: SDE Newscast, What's In the News?, Visions of Idaho # 5-10 1:00 am/12:00 midnight - 3:00/2:00 am (W,TR) Outdoor Idaho Yellowstone in Winter 8:00/7:00 pm (W) Dialogue Historic Preservation 8:30/7:30 pm (W)</p>	<p><b>29</b> ITV: Assessment in Math and Science: What's the Point? I Didn't Know This Was an English Class!, Scienceline #106 1:00 am/12:00 midnight - 3:00/2:00 am (W) Idaho Reports 8:00 pm (W)</p>	<p><b>30</b> Standard Deviants Justice For All 9:00/8:00 am (W,TR) National Geographic Dragons of the Galapagos 4:00/3:00 pm</p>
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