

RESOURCES FOR K-12 TEACHERS available through WISE (DVD-VHS-CD)

DVD Collection

1421 the Year China Discovered America?

PBS Home Video, 120 minutes, 2004

This special examines the theories outlined by Gavin Menzies in his best-selling book. An amateur historian and former submarine commander in the British Navy, Menzies poses an argument that could change the way we perceive global history - that Chinese admirals discovered America. Traveling across the continent, the film combines history, science and technology with adventure and exploration.

American Valor

PBS Home Video, 90 minutes, 2003

From Bull Run to Mogadishu, *American Valor* takes a moving and compelling look at America's military heroes -- the brave soldiers, sailors, Marines and airmen whose actions have earned them the country's highest recognition -- the Medal of Honor. Their stories unfold through newsreel footage, photographs, military art and interviews with recipients and comrades who witnessed their heroic acts.

And Thou Shalt Honor

PBS Home Video, 120 minutes, 2002

As the Baby Boomer generation ages, many more adults will be both caregiver and cared-for in their lifetimes. Advances in medicine allow individuals to survive for years with once-fatal diseases and chronic conditions. *And Thou Shalt Honor* deals with caring for aging parents, spouses, and friends, and heightens awareness of the increasing role played by caregiving in America across income, ethnic background, and geographic location..

The Atomic Bomb Collection (3 Discs)

PBS Home Video, 255 minutes

Special effects film-maker Peter Kuran spent years combing government archives for declassified footage and visiting foreign countries to create these three startling films. *Trinity and Beyond* traces the design, production, and testing of U.S. atomic and hydrogen bombs. *Nukes in Space* depicts the beautiful, deadly "rainbow bombs" which created radiation belts around Earth. *Atomic Journeys: Welcome to Ground Zero* visits 10 testing sites.

Episodes: Atomic Journeys: Welcome To Ground Zero
Trinity And Beyond: The Atomic Bomb Movie
Nukes In Space: The Rainbow Bombs

Best Friend Forgotten

PBS Home Video, 75 minutes

This program follows a dog named Clover from Los Angeles and a cat called Oreo from Chicago--two of the millions of pets who are brought into the city pounds each year. The fate of these two animals is bleak--they will either be in the very low percentage of animals who are adopted or they will be one of the millions who are euthanized each year. A closer look is taken into the differences between the city shelters and the "no-kill" movement.

Brooklyn Bridge

PBS Home Video, Ken Burns America Collection, 58 minutes, 1981

This award-winning film by Ken Burns recaptures the drama, struggles, and personal tragedies behind the greatest of all achievements of America's industrial age, *The Brooklyn Bridge*. Largest bridge of the era, its construction entailed enormous problems and ingenious solutions. Witness the human heroics behind the bridge that seized America's imagination in the 1880s.

Closing the Achievement Gap

PBS Home Video, 60 minutes

Clarence Page serves as a reporter and writer for this film that looks at Amistad Academy, a public charter school that serves about 250 students in grades five through eight. The school's mostly minority, mostly poor student body often arrive performing two years below grade level but leave scoring as well as their white peers in wealthy suburban towns.

Women in Science and Engineering (WISE)
The University of Iowa
DVD Collection

The Creation of the Universe

PBS Home Video, 92 minutes, 1985

Join leading scientists as they turn up clues to the origin of the universe, exploring today's most exciting and far-reaching theories. Could the universe have appeared spontaneously out of a perfect vacuum? Spectacular special effects and animation dramatize the birth of the universe. Nobel Prize-winner Carlo Rubbia, Murray Gell-Man and world-famous physicist Stephen Hawking explain their complex theories in easy-to-follow terms.

Declining By Degrees: Higher Education at Risk

PBS Home Video, 120 minutes

This documentary follows 30 students & teachers and explores the road between admissions and graduation. Going beyond what Americans believe about the college experience, Declining by Degrees exposes the disappointment, disorientation and deflation that so many college students feel, and the struggles they face, regardless of the schools they choose to attend. It goes on to address the issue of the quality and readiness of America's workforce.

DNA (5 Discs)

PBS Home Video, 300 minutes

Two British scientists surprised a pub crowd with news they'd discovered the "secret of life" 50 years. James Watson and Francis Crick unleashed a revolution in biology with their discovery of DNA: deoxyribonucleic acid, the molecular basis of heredity. In this compelling five-part series, interviews, rare film footage, custom graphics and state-of-the-art animation bring the tiny "double helix" to brilliant life. Narrated by Jeff Goldblum.

Einstein's Wife

PBS Home Video, 60 minutes, 2003

Decades after Albert Einstein's death in 1955, love letters revealed a long-concealed secret. When Einstein came to America in 1933, his second wife, Elsa, was well-known to the public, but almost forgotten was his university sweetheart, scientific collaborator, and first wife-Mileva Maric, who helped him win the 1921 Nobel Prize. Follow the life of a brilliant mathematician, now seen as Einstein's soulmate, in this documentary.

The Elegant Universe

PBS Home Video, 180 minutes

Physicist Bryan Greene's bestselling book comes to the small screen in this stimulating look at a complicated topic: the search for order in the universe. Is a revolutionary proposal--"string theory"--the answer scientists have been seeking for centuries? Greene tackles the mind-boggling complexity of the theory with vivid, clear images, and calmly points the way to the answer.

How Difficult Can This Be? Understanding Learning Disabilities: Frustration, Anxiety, Tension, the F.A.T. City Workshop

PBS Home Video, 70 minutes

This important program looks at the world through the eyes of a learning-disabled child by taking you to a unique workshop attended by parents, educators, psychologists and social workers. There they join in a series of classroom activities which, cause frustration, anxiety and tension -- emotions all too familiar to the student with a learning disability. "Must" viewing for parents and teachers.

The Human Face

BBC Video, 200 minutes

Join John Cleese (Monty Python alum, star of *A Fish Called Wanda*, Professor-at-Large at Cornell University, and best-selling author on psychology) on this innovative exploration of the human face. Can a mathematical template tell you whether you are beautiful or not? How can you know if someone is lying? Do caricatures show us how we really see each other? Among dozens of experts, celebrities, and everyday people, we meet casting director Mali Finn as she tries to pick out the next famous face. Jim Cooke tells us about losing the ability to recognize faces. With the help of a team of doctors, a little girl smiles for the first time.

Journey of Man

PBS Home Video, 120 minutes, 2003

How did the human race populate the world? A group of geneticists have worked on the question for a decade, arriving at a startling conclusion: the global "family tree" can be traced to one African man who lived 60,000 years ago. Dr. Spencer Wells hosts this innovative series, featuring commentary by expert scientists, historians, archaeologists, and anthropologists.

Women in Science and Engineering (WISE)
The University of Iowa
DVD Collection

The Life of Leonardo Da Vinci (2 Discs)

Questar, 270 minutes, 2005

Who was this man, called by many the most brilliant mind in history? What were the secrets behind the artistic and engineering genius? What caused his bitter rivalry with Michelangelo? Renato Castellani's 25 million dollar biography of the Italian Renaissance genius answers these questions and more-based on eyewitness accounts, documentary evidence, and informed speculation. Beautifully acted and richly photographed.

BONUS FEATURE: The Rise of Renaissance Italy, Leonardo's Masterpieces, Da Vinci's Inventions, The Maestro v. Michelangelo, and The Works of Two Great Masters.

Martin Gardner's Mathematical Games: The Entire Collection of His Scientific American Columns

Mathematical Association of America, 2005

Gardner's "Mathematical Games" column ran in Scientific American from 1956 to 1986. In these columns Gardner introduced hundreds of thousands of readers to the delights of mathematics and of puzzles and problem solving. He enlivened classic geometry and number theory and introduced readers to new areas such as combinatorics and graph theory.

The Meaning of Food

PBS Home Video, 180 minutes

This 3-part series about American food and culture, proposes to bring us together over food. Eating is a form of communication that is rich with meaning. Our relationships to food - universal, most comfortingly familiar, yet ever-inviting topic - reveal much about us. The series will sit down to dinner with people from a wide variety of cultures across America, and through their stories explore and celebrate our shared human experience.

The Natural History of the Chicken

PBS Home Video, 60 minutes, 2000, 60 minutes

Most people best know the chicken from their dinner plates -- whether as thigh, wing or drumstick. Consumers barely pause a moment to consider the bird's many virtues. Filmmaker Mark Lewis (Cane Toads: An Unnatural History and Rat) expands the frontiers of popular awareness and delightfully reveals that this small, common and seemingly simple animal is as complex and grand as any of Earth's creatures.

Not for Ourselves Alone: The Story of Elizabeth Cady Stanton and Susan B. Anthony

PBS Home Video, 180 minutes, 1999

Two women, one allegiance. Together Elizabeth Cady Stanton and Susan B. Anthony they fought for women everywhere, and their strong willpower and sheer determination still ripples through contemporary society. Ken Burns' stirring documentary recounts the trials, tribulations, and triumphs of two pioneers striving to give birth to the women's movement. Not until after their deaths was their shared vision of women's suffrage realized.

Ocean Wilds: Realm of the Killer Whales and Sperm Whale Oasis PBS Video, 120 min., 2001.

Episode 1: Each spring off British Columbia, pods of orcas-"killer whales"-reappear to spark a reproductive explosion. Feodor Pitcairn and John Ford explore orcas' complex societies, behavior, and odd habits.

Episode 2: Off the Azores Islands, Pitcairn uses high-definition cameras and hydrophones to capture the first full images of the sperm whale-a premier predator, at 60 feet and 60 tons, able to dive a mile or more for giant squid.

A Paralyzing Fear

PBS Home Video, 90 minutes

No American baby-boomer could forget filling dime-cards, lining up for oral vaccines on sugar cubes, or the deadly fear of contracting polio. Yet the story of how polio came to the United States, during World War I, is rarely told. Films and photographs blend with interviews of polio survivors, families, nurses, and doctors.

Partners of the Heart

PBS DVD Gold, 60 minutes, 2003

Witness the achievements of two men who came together in an unlikely time and place to leave the world a life-saving legacy. In 1930s Nashville, white surgeon Dr. Alfred Blalock and black carpenter's apprentice Vivien Thomas forged a partnership that changed the course of medical history. Discover how their pioneering shock research saved thousands of children's lives and crafted the beginnings of modern heart surgery.

Women in Science and Engineering (WISE)
The University of Iowa
DVD Collection

Prehistoric America (2 Discs)

BBC Video, 300 minutes, 2003

Journey through the long-vanished corners of prehistoric North America, beginning when man first entered the vast, unspoiled continent some 14,000 years ago, in this appealing BBC documentary. Witness ancient beasts, mammoths, mastodons, giant bears, and sabre-toothed cats-man's instant enemies-and see the legacies each has passed to their modern successors.

Race, Gender and Sexuality: Implications for Healthy Communities

History on Video, 70 min, 2004.

The subjects of race, gender, and sexuality are addressed during a seminar at Morehouse College's Public Health Awareness Conference.

Race to the Moon (2 discs)

The History Channel, Disc 1 - 91 minutes, disc 2: 141 minutes, 2003

Honoring the 35th anniversary of Neil Armstrong's moon-walk, this collection recreates the early failures and triumphs of space exploration before offering a futuristic glimpse at the next wave of space shuttles. Programs recount The Race to the Moon, from the "whiz kid" atmosphere of the early days through the moon landing and the Apollo 13 cliff-hanger, including a history of the space shuttle program's excitement and tragedy.

Disc 1: Failure Is Not an Option-Behind the scenes at an early NASA, and how the achievements in space wouldn't have been possible without those on the ground.

Disc 2: Code Name: Project Orion-Explores the grand dreams of the top-secret US space program in the 50s.
Modern Marvels: Apollo 13 - Explores the potential for disaster of the Apollo 13 mission.
Modern Marvels: The Space Shuttle - Tracks the history of the space shuttle from dream to reality.

Secret Life of the Brain

PBS Home Video, 300 minutes on 3 discs

A startling new map of the human brain has emerged during the past decade of neuroscience research, contradicting much of what was previously believed. Narrated by Blair Brown, this series tells stories through a mix of personal histories, expert commentary, and cutting-edge animation. Viewers learn startling new truths about the brain as they journey inside about this complicated organ.

Secrets of the Dead V: The Hunt for Nazi Scientists

PBS Home Video, 60 Minutes

The Hunt For Nazi Scientists tells the dramatic, untold story of the race to capture Germany's top scientists during the dying days of World War II and is filled with real-life accounts of the secret raids, rare archival footage, vivid eye-witness testimonies, visits to the hidden technological hideaways of the Nazis, and the exploration of a technological legacy that played itself out well into the Cold War and the race for space.

Secrets of the Dead: Killer Flu

PBS Home Video, 60 minutes, 2003

In 1918, at the end of the World War I, a flu pandemic ripped through the world with such speed and virulence that by the end of the following year an estimated 40 million people, four times more than those claimed by the war. Where did this particular flu strain come from and what made it so deadly? "Killer Flu" will show how 85 years later, virologists and epidemiologists are still hunting down the answers to those two critical questions.

Stephen Hawking's Universe (3 discs)

PBS Video, 3 at 120 minutes each, 1997

A brilliant scientist brings his best-selling observations on cosmological thought to the small screen. In Stephen Hawking's Universe, the mysterious dialogue between man and the cosmos is illuminated in down-to-earth language, as Hawking pursues an intergalactic detective story with grace, unexpected twists, and astonishing revelations.

Volume 1: The Big Bang

Program 1: Seeing is Believing – how mathematics revolutionized our view of the universe.

Program 2: The Big Bang – the beginnings of the universe.

Scientists have 2 theories – Big Bang and the Steady State v. creation, the theory from the church.

Women in Science and Engineering (WISE)
The University of Iowa
DVD Collection

Stephen Hawking's Universe (continued):

Volume 2: On the Dark Side

Program 3: Cosmic Alchemy – features the basics fire, water, air and gas, and more complex findings from the periodic table of elements to Einstein's theory of relativity

Program 4: On the Dark Side – is space empty? Dark matter is explored and the race to find it too.

Volume 3: Black Holes and Beyond

Program 5: Black Holes and Beyond – what the possibilities of black holes are.

Program 6: An Answer to Everything – leading scientists try to answer the question of how the Big Bang began.

They Made America

PBS Home Video, 240 minutes on 2 discs

Americans have always been endlessly inventive and practical. They Made America examines innovation in America through the stories of the resourceful men and women whose ideas and inventions have transformed the world. Based on author and journalist Harold Evans's book, They Made America also explores the political, social, economic, and environmental forces that make the United States an incubator for so much radical and far-reaching creativity.

Triumph of the Nerds: How the Personal Computer Changed the World

PBS Video, 165 minutes

It happened more or less by accident; the people who made it happen were amateurs; and for the most part they still are. From his own Silicon Valley garage, author Bob Cringely puts PC bigshots and nerds on the spot, and tells their incredible true stories. Like the industry itself, the series is informative, funny and brash.

Walking with Dinosaurs

BBC, 230 minutes, 1999

A lost world comes to life as dinosaurs walk and soar again! State-of-the-art digital effects and animatronics create a virtual version of the prehistoric world. Based on the latest scientific findings, WALKING WITH DINOSAURS traces the 155-million-year history of the largest creatures that ever lived. From the mighty carnivorous Tyrannosaurus Rex to the airborne Ornithomimus, behold marvel after marvel on the ultimate journey back in time.

The Weather (2 Discs)

PBS Home Video, 240 minutes

Take a trip around the world with death-defying presenter Donal McIntyre, pursuing Mother Nature's worst tricks. In "Wind," McIntyre faces down 100-mile-per hour gales in a wind tunnel. In "Wet," he visits the world's wettest place, the parched earth of Texas, and monsoon country. In "Cold," how long can McIntyre withstand minus-18 degree cold? In "Heat" it's off to wet heat (Belize) and dry heat (the Sahara);

West 47th Street

PBS Home Video, 83 Minutes

An intimate portrait of four people struggling to recover from serious mental illness, WEST 47th STREET follows its subjects through drug regimens, health issues, group homes, and work programs. The four have come to Fountain House, a rehabilitation center in New York City's Hell's Kitchen. Epic in scope, the three-year project offers an unprecedented window into the lives of people who are often feared and ignored, but seldom understood.

Wild Kingdom: The African Wild (3 Discs)

225 Minutes

Mutual of Omaha's Wild Kingdom thrilled TV viewers for decades by visiting animals in their natural habitats. Now relive the legend in this collection of groundbreaking African episodes, as requested by viewers, with hosts Marlin Perkins, Jim Fowler, Peter Gros, and Stan Brock. Includes three unforgettable segments from the late Dian Fossey's memorable gorilla saga, plus wild elephants, hippos, and giraffes galore.

The American Experience:

Building the Alaska Highway

PBS Home Video, 60 minutes

In May of 1942, across the rugged sub-Arctic wilderness of Alaska and Canada, thousands of American soldiers began one of the biggest and most difficult construction projects ever undertaken—building the Alaska Highway. This program tells how young soldiers battled mud, muskeg, and mosquitoes; endured ice, snow, and bitter cold; and cut pathways through primeval forests to push a 1,520-mile road across one of the world's harshest landscapes.

The Great Transatlantic Cable

PBS Home Video, 60 minutes

This program tells the story behind the laying of the transatlantic cable. The physical challenges to laying the cable were enormous. The project would require the production of a 2,000 mile long cable that would have to be laid three miles beneath the Atlantic. Cyrus Field, an energetic young New Yorker wasn't deterred, since its completion in 1866, nothing has broken his communications link with Europe—not storms, earthquakes or war.

Kinsey

PBS Home Video, 90 minutes, 2005

Alfred Kinsey was a little-known biologist when, in the 1940s, he began compiling data from thousands of interviews about the sexual practices of men and women. The results were the explosive "Kinsey Reports." Through interviews with his research assistants, his children, his biographers, and historians, this documentary assesses Kinsey's achievements, while examining how his personal life shaped his career.

Mount Rushmore

PBS Home Video, 60 minutes

High on a granite cliff in South Dakota's Black Hills tower the huge carved faces of four American presidents. Together they constitute the world's largest sculpture. The massive tableau inspires awe and bemusement. How, and when, was it carved? Who possessed the audacity to create such a gargantuan work? The story of Mount Rushmore's creation is as bizarre and wonderful as the monument itself. Narrated by Michael Murphy.

Frontline:

A Class Divided

PBS Home Video, 60 minutes, 1986

In 1970, an innovative teacher attempted a daring experiment in her elementary school classroom. To evaluate how racial stereotypes affect young children, Jane Elliott divided her class between those with blue eyes and those with brown and gave the blue-eyed students preferential treatment. This classic program presents the long-term effects of racial stereotyping in schools and suggests how new approaches can make a positive difference with students and teachers.

BONUS FEATURE: *A Class Divided* study guide

Dangerous Prescription

PBS Home Video, 60 minutes

As medications assume ever-larger roles in health care, the importance of FDA approval mounts. But what do average Americans know about the FDA process? What happens when a drug product harms consumers, and what role do drug companies play in approving and monitoring drugs? DANGEROUS PRESCRIPTION offers a FRONTLINE investigation into the FDA and drug safety, showing how effective the FDA is at identifying drugs that don't work or cause harm.

Diet Wars

PBS Home Video

Americans spend \$40 billion a year on books, products, and programs designed to help us lose weight. Today's dieters have a dizzying array of weight loss programs from which to choose - yet the underlying principles of these diets are often contradictory. Is low fat better than low-carb? Is Atkins the answer? And has the USDA Food Pyramid done more harm than good? FRONTLINE examines the great diet debate.

Frontline (continued):

Inside the Teenage Brain

PBS Home Video, 60 minutes

It's the mystery of mysteries -- especially to parents. Now the experts are exploring the recesses of the brain and finding explanations for why adolescents behave the way they do and how the new discoveries can change the way we teach, or perhaps even understand, our teenagers.

The Persuaders

PBS Home Video, 90 minutes

Frontline examines the "persuasion industries" -- advertising and public relations. To cut through consumers' growing resistance to their pitches, marketers have developed new ways of integrating their messages into the fabric of our lives, using sophisticated market research techniques to better understand consumers and turning to the little-understood techniques of public relations to make sure their messages come from sources we trust.

The Plea

PBS Home Video, 60 minutes

It is the centerpiece of America's judicial process: the trial by jury system that places a defendant's fate in the hands of a jury of one's peers. But just how many citizens are aware that nearly 95 percent of all criminal cases never reach a jury, but instead are settled through plea bargains? FRONTLINE explores the moral, judicial and constitutional implications of relying on plea bargains to expedite justice.

NOVA:

Everest: The Death Zone

NOVA, 60 minutes, 1986 – includes language some may consider objectionable

Get ready for a (literally) breathtaking trek up Mt. Everest, from Base Camp at 17,600 feet; through the chilling, corpse-strewn Death Zone; to the very pinnacle of the Earth, five and a half miles above sea level. "Even with the best technology, the best training," says team member, producer and director David Breashears, "you can still end up frozen to death at 27,500 feet. That's what makes Everest Everest." Narrated by Jodie Foster.

Inside the Human Body

NOVA, 240 minutes

Explore the mysteries within each of us through advanced microphotography. Examine the coordination of muscles, bones, heart, and circulatory system of a world-class athlete in action; and the digestive dynamo that turns a sandwich into raw energy for Olympic skater Bonnie Blair. Find out how cracking the human genetic code has led to astonishing medical breakthroughs that could lead to cures for cancer, arthritis, and Alzheimer's.

Life's Greatest Miracle

NOVA, 60 minutes, 2001

A remake of Lennart Nilsson's world famous film *Miracle of Life*, "this completely updated edition tells the inside-the-womb story of human life from conception to birth using the latest technological advances in microscopy and medical imaging."

Magnetic Storm: Earth's Invisible Shield

NOVA, 60 minutes, 2003, 60 minutes

What caused the massive March 1989 blackout across Canada and the Northeastern United States? A magnetic storm in Earth's upper atmosphere - one triggered by a solar flare 90 million miles away, on the Sun's surface. NOVA explores this obscure but potentially serious threat to human life. Was it a fluke, or a harbinger of things to come? Will changes in Earth's magnetic field make us more vulnerable to deadly radiation from space?

Saving the National Treasures

NOVA, 60 minutes

Never have a few pieces of animal hide been subject to such meticulous and expensive attention. But these aren't just any old pieces of parchment. They are America's priceless charters of freedom: the Declaration of Independence, the Constitution and the Bill of Rights. NOVA tells how a seemingly simple project became a five-year, multi-million-dollar technological odyssey on Saving the National Treasures.

NOVA (continued):

Secrets of Lost Empires: Medieval Siege

NOVA, 60 minutes

Secrets of the Lost Empires II - Unlock mysteries and uncover lost history with the experts as they use yesteryear's thrilling technology to recreate five ancient engineering marvels and to discover what daily life was really like in these communities. Travel around the globe from Egypt to Rome and take a fresh, "hands-on" look at mankind's greatest cultures and civilizations. It's history from a whole new point of view!

To The Moon

NOVA, 120 minutes

The mission seemed impossible, the odds astronomical, but the results were spectacular. NOVA presents the story behind the Apollo space program, including the historic walk on the moon in 1969, in a two-hour special. Meet unsung heroes, experience the dangers, and discover new Apollo perspectives through rare footage, little-known facts, and interviews with NASA scientists, engineers, geologists, and the astronauts themselves.

Typhoid Mary

NOVA, 60 minutes, 2004

The story of "Typhoid Mary" pitted the new science of bacteriology against ancient terrors. Mary's banishment to a quarantine island off Manhattan against her will also revealed the newfound power of health officials who protected the masses while violating individual liberties. Today, with the presence of SARS, HIV-AIDS, influenza, and Ebola, public health policies continue to search for the proper balance of protection and freedom. **BONUS:** Printable Material for Educators, Access to the NOVA website

The Unknown World

NOVA, 60 Minutes

They hide in your closet, lurk in your bed. They're all over you; snacking on your skin, burrowing through your scalp, munching on your mascara. They're the creepy crawlers of the unknown world, and now, thanks to micro-photographer Lennart Nilsson (The Miracle of Life), you can catch these critters in the act, magnified to monster size. Zoom in again: a secret drama is taking place, in, on, and around us in a hidden world.

Welcome to Mars

NOVA, 60 Minutes

Take an astounding look at the red planet in this interplanetary adventure that picks up where Mars Dead or Alive left off. Mission Control and its two robotic explorers face a daunting task to find proof that liquid water, the essential ingredient of life, once existed on Mars. Welcome to Mars presents a compelling inside story of triumph and technical ingenuity, full of scientific and human drama, with stunning images from an alien world.

Why The Towers Fell

NOVA, 60 minutes

The collapse of the World Trade Center Towers on September 11, 2001, was a scene of unforgettable horror and unimaginable consequence. Within days, NOVA began following forensic engineers seeking clues to why the towers fell. This riveting documentary combines interviews with survivors and rescuers, recounting final moments and harrowing journeys to safety, with structural engineers' insights to create a full picture of the tragic event.

National Geographic Special Presentations:

Guns, Germs, and Steel (2 Discs)

180 Minutes

Based on the Pulitzer Prize-winning book and national best seller, Guns, Germs, and Steel is an epic detective story that offers a gripping expose on why the world is so unequal. Professor Jared Diamond traveled the globe for over 30 years trying to answer the biggest question of world history. Why is the world so unequal? The answers he found were simple yet extraordinary. Our destiny depends on geography and access to: Guns, Germs, and Steel.

National Geographic Special Presentations (continued):

China's Lost Girls

60 Minutes

Join Lisa Ling, host of National Geographic Explorer, as she delves into the traditional Chinese preference that leans toward boys, so girls are often hidden or abandoned. Today, more than one quarter of all babies adopted from abroad by American families come from China. Watch as these families travel to China to meet their new daughters for the first time and witness firsthand China's gender gap, its roots, and its possible repercussions.

The Living Edens: Arctic Oasis: Canada's Southampton Island

60 Minutes

Along the shores of Southampton Island in northern Hudson Bay of Canada, a survival story has played out for centuries. Noah Kadlak, of Inuit ancestry knows how to live in the arctic environment and survive. Now he has decided the time is right to take his eldest son, 12 year-old Logan, on an extended hunting trip that offers him a chance to introduce the boy to traditional Inuit skills of living off the land.

The Shape of Life (4 Discs)

4 at 106 minutes each, 2002

National Geographic chronicles the dramatic rise of the animal kingdom. By exploring the major body plans upon which almost all animal life is built, "The Shape of Life" tackles fundamental questions of animal behavior, body design, and evolution. Renowned scientists across the globe piece together how early animals became an astonishing diversity of creatures, from simple sponges to complex animals. Peter Coyote narrates.

Disc 1: Episode 1: Origins – the search for and discovery of the origins of today's animal life.

Episode 2: Life on the Move – how animals developed their mechanisms for motion.

Disc 2: Episode 3: The First Hunter – follow a flatworm, who's hunting and sexual exploits changed the shape of life.

Episode 4: Explosion of Life – in a geologic instant, an array of animals emerged and laid the groundwork for the incredible diversity that exists today.

Disc 3: Episode 5: The Conquerors – the conquest of land and air.

Episode 6: Survival Game – the development of mollusks and how they avoid becoming prey.

Disc 4: Episode 7: Ultimate Animal – the behaviors of the spiny starfish.

Episode 8: Bones, Brawn and Brains – modern science using technology to look into the origins of human existence.

Scientific American Frontiers:

Cars that Think

PBS Home Video,

The fully automatic car may be down the road a ways, but cars that do your thinking for you are just around the corner -- they watch out for hazards, they listen to you, they read your lips, they even know when you're distracted.

Chimp Minds

PBS Home Video, 30 minutes, 2004

A visit with an engaging if unruly bunch of cousins that we formally broke up with about 6 or 7 million years ago - with whom we share almost all of our genes but not a lot of our lifestyle. Why the difference? Maybe it's in how we learn.

Coming Into America

PBS Home Video, 60 minutes, 2004

Who were the first Americans? Did they get here by land or sea? Did a single group populate the continent, or did many? Experts used to agree that the first Americans walked across the Bering land bridge from Asia about 12,000 years ago, eventually colonizing all of North and South America. But exciting recent finds at sites on both continents have triggered new theories. Alan Alda tries to find out who's saying what, and why.

Scientific American Frontiers (continued):

The Dark Side of the Universe

PBS Home Video, 60 minutes, 2004

Alan Alda joins some of the world's leading astronomers as they wrestle with the startling implications of their latest discoveries: that everything we can see, from the world around us to the most distant galaxies, is only a tiny fraction of the entire cosmos. Most of what's out there is dark -- either dark matter or dark energy. And our universe is perhaps only one in an infinity of universes.

Don't Forget

PBS Home Video, 60 minutes, 2004

Alan Alda investigates how people create memories and how as they age, memories become slippery and elusive, sometimes vanishing forever. He visits two men who live entirely in the present or the distant past, unable to recall events that happened even a few minutes ago. He also meets a volunteer in an experimental treatment for Alzheimer's disease and gets the latest on the search for an Alzheimer's vaccine.

Future Car

PBS Home Video, 60 minutes, 2004

Alan Alda visits the research labs and test tracks of the Big Three auto makers to find out what people will be driving in the future. Alda test-drives several hydrogen-fueled cars in development. The search for a fast, safe, exciting and non-polluting fuel-cell car takes Alda from Germany to California to Iceland, which is attempting to become the first nation to entirely replace imported petroleum with domestically produced hydrogen.

Going Deep

PBS Home Video, 30 minutes, 2005

A look back at the decades of effort that culminated in the deep sub Alvin reaching the ocean floor, and a look forward to what's next now Alvin's retiring.

Hot Planet – Cold Comfort

PBS Home Video, 30 minutes, 2005

So you think global warming won't affect you? Wait until the great Atlantic Conveyor shuts down. And find out what's already happening in Alaska.

Hot Times in Alaska

PBS Home Video, 60 minutes, 2004

Alaska is warming up. It's now a few degrees warmer than it was a century and a half ago, and the trend seems to be accelerating. Already the landscape is changing dramatically -- permafrost is thawing, glaciers are melting, forests are succumbing to drought and insect attack. Alan Alda meets Alaskan scientists who are working to find out if these are the first signs of global warming and what the future may hold.

Hydrogen Hopes

PBS Home Video, 30 Minutes

We've all heard of hydrogen as the fuel of the future, but what will it take to get there from here? How can we create hydrogen from renewable sources like the sun - and how do we store it safely once we've got it.

Mysteries of the Deep

PBS Home Video, 60 minutes, 2003

"Into the Deep" watches scientists unlock secrets from the last frontier on Earth-the ocean's depths, where explorer Bob Ballard is changing science, history, and the future. "The Uncivilized Engine of War" traces the world's first submarine attack-on the Union warship Housatonic-in Feb. 1864. In 1995, after a lengthy search, shipwreck hunter Clive Cussler's team located the Confederate sub Hunley, now in dry dock in South Carolina.

Robot Pals

PBS Home Video, 30 minutes, 2005

To be really useful, robots need to behave as a cooperative partners rather than mindless machines. We'll meet three robots - including a future member of an astronaut team - that are trying to better understand us.

Surgical Slimmers

PBS Home Video

In spite of the risks, people are lining up to solve their weight problems in the operating room. And if the latest device -- an implantable stomach "pacer" -- works out, millions more will be taking the surgical way out.

Scientific American Frontiers (continued):

Worried Sick

PBS Home Video, 60 minutes

Stress is the curse of modern living -- but is it actually so new? Does it only affect people? Can you really get sick from stress? Can relaxation make you better?

VHS Collection available through WISE

The Best of Beakman's World

1993, 60 minutes

In a laboratory filled with zany surprises, Beakman mixes a fun formula for learning science with brain-boggling challenges, mind-blowing fast-facts, and eye-opening demonstrations of dazzling experiments that can be done at home. The critically acclaimed television series BEAKMAN'S WORLD won the praise of parents and educators – setting new standards for children's programming. Now the best of that world is yours in this special presentation based on the hit TV show and produced exclusively for home video.

Bringing Young Minority Women to the Threshold of Science George Washington University, 1993-1994

Career Encounters: Women in Engineering

WEPAN, 29 minutes, 1993

The high-tech constantly evolving field of engineering is no longer a career choice for men alone. More and more women are choosing careers in this field and are moving into positions that require a high degree of mechanical knowledge and skill. The women in this program discuss what attracted them to engineering and introduce the wide range of specialty areas in the field today. Through them, you will learn of the various avenues of education offered, the growth of advocacy programs, the exciting job opportunities available, and the special challenges facing women in engineering.

The Children are Watching

PBS Home Video, 60 minutes

THE CHILDREN ARE WATCHING explores how parents' examples influence children by filming four families with teenagers. Disturbing connections arise for an absentee father facing his son's rage (the Lauingers); a mother whose repressed anger turns her daughter violent (the Partlows); a fast-driving father and his equally aggressive son (the Moyers); and a single mother whose destructive relationships haunt her daughter (the Martins).

Cool Careers for Smart Young Women

University of Tennessee – Knoxville, 18 minutes

The videotape and teacher's guide are intended for use with female students from the 7th to the 10th grades. They present information about technical career opportunities as a viable choice for women, but stress the importance of developing the academic background that leaves doors open. This means that science and math must be pursued in middle school and high school. The tape presents four young women who are pursuing engineering careers with leading U.S. corporations. They discuss their work, their lives, and how they came into their current situations. Each young woman is a potential role model for the type of bright young female who could be successful in this area.

A Curriculum for Training Mentors and Mentees

Women in Engineering, U of Washington, 1998

This video presents scenarios of mentoring relationships. The training video is a supplement to *A Curriculum Guide for Training Mentors and Mentees* which is also available in the WISE Resource Library.

Domestic Violence: Faces of Fear

PBS Home Video, 60 minutes

Domestic violence knows no racial, gender or cultural boundaries. Abuse happens everywhere, and silence is its accomplice. Join Diane Sawyer as she explores this problem and examines the innovative responses to it by the medical community, law enforcement agencies, and corporate America. Her Journey leads to Puerto Rico, Miami, San Diego, a Native-American reservation in New Mexico, and even Israel.

Educating Young People about Water Planning for Fun and Success University of Wisconsin, 53 minutes
Youth water education programs exist in little pockets all over the world – that’s the nature of water, it’s everywhere. You will meet 8 youth water education program managers as they share their keys to success and the barriers they hurdle in conducting successful, ongoing programs. Observe youth testing water quality from the Colorado River to a frozen Wisconsin lake. See how fishing programs work proactively to address drug and alcohol problems. And find out how a wetland education program attracts youth and their families to revisit the wetland located in their own community.

How to Use Math & Science to Solve Real Problems: She’s the Engineer Cornell University, 1992
If you’re talented in math and science, someone has probably mentioned engineering as a career option. *She’s the Engineer* can help you decide if engineering is the right choice for you.

Kennecott Utah Copper’s Bingham Canyon Mine Kennecott, 14 minutes
Join us for a remarkable video tour of “The eighth wonder of the world.” The Bingham Copper Mine is the largest man-made excavation on earth. It provides 15% of the United States’ total copper needs. Find out how the ore that comes from this mine is turned into the copper found in products you use every day.

The Slinky Scientific Shindig News Group, 1997, 19 minutes
The Slinky toy is more than 50 years old, and as popular as ever. More than a toy, the Slinky is also a good teaching tool for demonstrating scientific principles like gravity, inertia, and wave forces. In this fast-paced romp with the host of a fictitious weekly program, “The Slinky Scientific Shindig,” you’ll see the Slinky in action and learn how this unique spring was engineered. You’ll visit the original and only Slinky factory in Hollidaysburg, Pennsylvania, and join astronauts as they use Slinky in space. You’ll also meet a diverse group of today’s corporate engineers.

Women Who Walk Through Time National Science Foundation, 30 minutes
Walk through over a billion years of geologic time with three Earth Scientists in this 30 minute educational video. Spectacular footage highlights the beauties and mysteries of our dynamic earth that challenge geologists. Designed for young people aged 10-18, but appropriate for all classroom ages. Learn what Earth Science is all about and why geologists love what they do.

Young Doctor Freud PBS Home Video, 120 minutes
This documentary traces the early life of Sigmund Freud from his birth in 1856 to the publication of his landmark book, *THE INTERPRETATION OF DREAMS*, in 1900. Readings from Freud’s work are combined with re-creations and commentary by scholars and psychoanalysts, as the film examines Freud’s revolutionary theories, now part of the fabric of 20th-century thought and shaping contemporary notions of identity, memory, childhood, and sexuality.

Discovering Women Series:

DNA Detective Molecular Biologist - Lydia Villa-Komaroff WGBH Educ. Foundation, 60 minutes, 1995
“There are more cells in the brain than there are stars in the universe,” molecular biologist Lydia Villa-Komaroff. Studying the brain’s mysteries presents, Lydia Villa-Komaroff, an associate professor of neurology at Harvard Medical School, with an exciting challenge. Like a sleuth, she has to rely on any clues she can find and follow her instincts. Will they lead her down a blind alley or to a scientific breakthrough? In the program, Villa-Komaroff and her colleagues research a protein which Villa-Komaroff believes may be implicated in a rare and devastating condition called megalencephaly, in which the fetal brain grows abnormally large. But it’s an unproven theory, and Villa-Komaroff has already invested years of work developing it. As she comes to a crucial experiment, Villa-Komaroff knows that “things just don’t always happen the way you want them to” in science. The profile offers a meditation on the value of failure as a tool in science – and a vision of a successful woman scientist.

Discovering Women Series (continued):

Earth Explorer Geophysicist - Marcia McNutt WGBH Educational Foundation, 60 minutes, 1995
Geophysicist Marcia McNutt sees science as a great jigsaw puzzle: “When the pieces fit together, it’s so much fun!” The “pieces” she’s working on include a study of the critical juncture beneath Lake Mead, Nevada, where the earth’s geological plates are pulling away from each other. Our continent is literally “falling apart before our eyes,” says McNutt, and someday North America may split into two separate continents. The profile follows McNutt as she studies these hidden forces, taking her to Tahiti where she and her colleagues examine xenoliths, rock fragments thrown up from the earth’s mysterious interior. The program also shows the human face of a life in science. McNutt is a single parent, widowed five years ago when her husband suddenly died, leaving her with three young daughters. Her life involves a constant balancing of research and teaching at MIT, where she’s a tenured professor in the Earth Sciences Department, with children’s piano lessons and birthday parties.

High Energy Physicist - Melissa Franklin WGBH Educational Foundation, 60 minutes, 1995
To Melissa Franklin, building a machine that zaps subatomic particles is as much of a kick as staying up all night listening to Frank Zappa albums. She’s an eclectic innovator with a quirky sense of humor. She’s also the first woman to become a tenured professor in Harvard University’s physics department. In this profile, Franklin brings the cameras inside the multi-million dollar, 140-ton particle detector at Chicago’s Fermilab. The detector, which Franklin helped build, accelerates “the smallest things in the world,” (subatomic particles) and smashes them together producing data that physicists can record and study. Out of this work, Franklin and her colleagues have produced evidence of the top quark, the final, elusive particle needed to complete the Standard Model of quantum physics. Franklin balances this demanding work with a personal credo – “One’s role in life is to be amusing”.

Jewels in a Test Tube Biochemist - Lynda Jordan WGBH Educational Foundation, 60 minutes, 1995
As a teenager growing up in a dangerous, low-income housing project in Boston, Lynda Jordan was, as she put it, “on the cusp of becoming a delinquent child.” Today she’s a tenured associate professor in biochemistry, working on an exciting project: unlocking the secrets of a key human enzyme that’s vital to one of life’s most fundamental processes, giving birth. The inspiring story of Jordan’s journey towards that goal, and of her efforts to encourage the next generation of African American scientists like herself, is at the heart of this profile. She talks about the importance of her undergraduate years at a historically black university, a place where she could feel “strong, reinforced, affirmed” in her identity as an African American woman while learning the skills needed to go on to a Ph.D. from MIT and a fellowship at the prestigious Institut Pasteur in Paris.

Secrets Underground Archaeologist - Patty Jo Watson WGBH Educational Foundation, 60 minutes, 1995
4,500 years ago, barefoot adventurers crawled through dark, narrow passages deep inside the earth, exploring their world with remarkable courage and skill. In this profile, archaeologist Patty Jo Watson follows their path and views their footprints with awe. “It’s one of the times you can see the past before you,” Watson says. “It’s about the closest you can get to a prehistoric person.” Watson’s work in caves has uncovered intriguing new information about the earliest North Americans, and has led to a re-evaluation of our beliefs about them. Watson also travels to a rural Chinese village and high into the Rocky Mountains as part of her study of early human activity, and she talks about her provocative new theory of gender roles in early societies. But the key to her work lies deep in the caves of Kentucky and Tennessee, where research can often be hazardous. On one trip in this program a fellow carver collapses in hypoglycemic shock, and Watson and her team must scramble to alert rescue forces and guide them in, two miles underground.

Silicon Vision Computational Neuroscientist - Misha Mahowald WGBH Educ. Foundation, 60 min, 1995
As a child Misha Mahowald went on a ride at Disneyland where visitors were “shrunk down” into “water molecules.” Being only a child, she thought what she was seeing was real. “The world suddenly was much more interesting than I’d been lead to believe, because there were all these things that were normally invisible that were really there,” she remembers. Today Mahowald brings that same curiosity to her work as a young scientist in a very young field, computational neuroscience, a combination of neuroscience and biology. Although she is only 29 years old, she has already played a major part in the development of a silicone retina, a tiny computer chip that reacts to light as the eye’s retina does. A ghostly, flickering image of Mahowald as seen by this retina wavers on the computer screen as she works on her next project: building a silicon neuron. The next step towards building an entire visual network and someday, a human brain on computer chips.

Frontline:

Making Babies

PBS Home Video, 60 minutes

A revolution in reproduction is delivering new hope to infertile couples. FRONTLINE takes a serious look at dramatic strides being made in reproduction. Will genetic profiling lead more people to choose a model sperm or egg donor? Will cloning eliminate the need for sperm altogether? Journey into the fascinating world of reproductive technology, and take an introspective look at new ethical and moral dilemmas.

Medicating Kids

PBS Home Video, 60 minutes

Millions of American children take powerful behavior modification drugs such as Ritalin, Prozac, Paxil, and Zoloft. But are such medications necessary or safe, or a quick fix for annoying behavior? FRONTLINE investigates the growing use of psychoactive drugs by U.S. children in a high-stress world, and the roles played by doctors, educators, pharmaceutical makers, and insurance companies, in an intimate portrait of several suburban families.

The New Asylums

PBS Home Video, 60 minutes

There are nearly half a million mentally ill people serving time in America's prisons and jails. As sheriffs and prison wardens become the unexpected and ill-equipped gatekeepers of this burgeoning population, they raise a troubling new concern: are jails and prisons America's new asylums? Frontline goes deep inside Ohio's state prison system to present a searing exploration of the complex and growing topic of mental health behind bars.

NOVA:

Ebola: The Plague Fighters

PBS Home Video, 60 minutes

Enter the "hot zone" of Ebola, perhaps the most dreaded disease on Earth. In 1995, NOVA sent a film crew for weeks into the quarantined city of Kikwit, Zaire, to cover an outbreak of the obscure plague, which kills its victims by dissolving internal organs and connective tissue. Learn how disease specialists traced the outbreak's origins by compiling a "chain of death," and why they fear an Ebola mutation might be even harder to contain.

Hitler's Lost Sub

PBS Home Video, 120 minutes

Dive in dangerous waters with deep sea detectives as they attempt to retrieve clues that will reveal this decaying U-boat's identity. See how the breaking of Nazi codes altered the outcome of the war and helped unravel the mystery behind this German U-boat. Finally, travel to Germany with the divers as they rewrite part of World War II history, bring closure to families of the lost crew and discover how one man's life was spared.

Secrets of the Mind

PBS Home Video, 60 minutes

A blind man can see. Another feels pain in his missing arm. One believes he's God. A son thinks his parents are impostors. Are their thoughts real...or just "in their heads"? In this remarkable NOVA, pioneering brain detective V.S. Ramachandran, hailed as "the Sherlock Holmes of neuroscience," tackles four mysterious cases and delivers mind-boggling conclusions. Investigate his breakthrough research in phantom limb syndrome, and how he discovered how the brain undergoes a massive "rewiring" when a person loses a limb. Explore the power of the mind in pain control. See how frightening seizures can result in unbelievably intense spiritual experiences. And discover how research from brain injuries helps us learn about the normal brain.

Scientific American Frontiers:

Changing Your Mind

PBS Home Video, 60 minutes

We discover the "you" inside your head - the part of your mind, sitting right behind your forehead - that decides what you do every waking second of the day. We reconstruct a 150-year-old accident that caused a railroad worker named Phineas Gage to lose his sense of self; see children's reasoning powers gradually come on line; and scan Alan Alda's brain as he struggles to make decisions while feeling cheated.

Scientific American Frontiers (continued):

Make Up Your Mind

PBS Home Video, 60 minutes

Alda meets two young women whose brains have remodeled themselves -- one temporarily in response to a week of being blindfolded, the other permanently after a devastating brain injury before birth. They are dramatic examples of neuroplasticity" -- today's hot topic in brain research. Alda also joins researchers who have overthrown the conventional wisdom that adults can't grow new brain cells."

The Secret Canyon

PBS Home Video, 30 minutes

The best kept secret of American archeology is now revealed - an entire canyon of perfectly preserved 1,000-year-old remains. Who were these people - and where did they come from?

University of Iowa and Creighton University Service Learning Teams:

Allied Health Professions – Dr. Andrea Zardetto-Smith June 1997

Service Learning Teams Video Footage, Tapes #1 through #4: Medical TV Biomedical Communications

CD-ROM Collection available through WISE

Alice in Techiland

Urban Wildlife, National Science Foundation

An interactive computer game lets engineering educators and students walk in their female colleagues' shoes.

Forces of Nature

National Geographic, 2 discs (**Windows only**)

'National Geographic explores nature's power with the flick of a wrist, from lightning to locusts and from fires to floods. With text and graphics ready for printing and copying, full-screen videos and photos, speedy text-search options, and much more, Forces of Nature will make learning about natural disasters easy and productive. Wonder how tornadoes form? Or why volcanoes erupt? Turn to the experts for a crash course.

National Geographic Maps Complete Collection

National Geographic, 8 Discs (**Windows only**)

Travel around the globe and through time with this exceptional all-inclusive collection of historic maps. Contains every fold-out map from 1888 to December 2000. The CD-ROM format lets you browse through over 500 maps, take guided tours, and print out. Also features audio enhancements as well as advanced search options. A timeless topographic compilation that allows you to fully explore the magnificence of our ever-changing world.

Telling Our Stories: Women in Science

McLean Media

Discover the compelling stories of eight diverse women scientists and their exciting work, through personal photos, interactive experiments, multimedia field trips and more than three hours of audio and video clips. Meet scientists working on fascinating projects in astronomy, biology, chemistry, animal communication, geology, and physics. Search a database of 130 scientists, past and present.

WomenTech Project Best Practices

Institute for Women in Trades, Technology & Science, 2003
One Disc (**Windows only**)

The WomenTech Project was a three-year effort in which the Institute for Women in Trades, Technology & Science (IWITTS) worked collaboratively with three community college demonstration sites to help them increase the number of females enrolled and retained in technology programs.

You'll find over 100 pages of content in this CD that includes both strategies for increasing and retaining females in your technology programs and actual examples of how the WomenTech Project implemented these strategies in the community college demonstration sites. The story of this project is really told within the content of the CD. We invite you to explore it, see what we learned and then apply it to your own school or community college!