

UNLV LIBRARY
MEDIA RESOURCES CATALOG
Science
Summer 2009

Acadia National Park.

GeoPhoto Pub. Co. (1982)

Presents aerial and ground level photos of geographic features of Acadia National Park in Maine, including the great basaltic dikes and Schoodic Point; shatter zones and jointing in crystalline rocks; glacially scoured lake basins, bedrock, and monadnocks; large erratics; and boulder and pebble beaches.

21 Slides

Guide

QE120.A23 A23 1982

Aeolian Features of the Western Desert, Sahara.

GeoPhoto Publishing Co.

Shows the wind as the principal land-forming and land-destroying force in the Sahara Desert.

36 Slides

Guide

QE597 .A32 1991

African Odyssey.

National Geographic (1998)

Researchers/conservationists Mark and Delia Owens pursue their scientific studies of lions and brown hyenas in the torrid reaches of the Central Kalahari Game Reserve in Botswana. When forced to abandon their home in the Kalahari Desert, they find a new African work site in a wildlife park in the south African country of Zambia

Video Cassette (1 hr)

G3 N37 A37

After innocence

New Yorker Video, [2006]

The story of seven men who were wrongly convicted for crimes that they did not commit, whose innocence was conclusively proven years later by DNA evidence.

1 videodisc (95 min.)

KF9756 .A37 2006

Against All Odds.

The Annenberg/CPB Collection (1989)

Features mathematical formulas and living examples that motivate mathematics learning. Presents the why and the how of statistics using computer animation, on-screen computations, and documentary segments.

1. What is Statistics?
 2. Picturing Distributions
QA 276.12 A33
 3. Describing Distributions
 4. Normal Distributions
QA 276.3 A33
 5. Normal Calculation
 6. Time Series
QA 273.6 A332
 7. Models for Growth
 8. Describing Relationships
QA 279 A33
 9. Correlation
 10. Multidimensional Data Analysis
QA 278.3 A33
 11. The Question of Causation
 12. Experimental Design
QA 273 A63
 13. Blocking and Sampling
 14. Samples and Surveys
QA 279 A332
 15. What is Probability?
 16. Random Variables
QA 273 A632
 17. Binomial Distributions
 18. The Sample Mean and Control Charts
QA 276.6 A33
 19. Confidence Intervals
 20. Significance Tests
QA 276.74 A33
 21. Inference for One Mean
 22. Comparing Two Means
QA 276.74 A332
 23. Inference for Proportions
 24. Inference for Two-Way Tables
QA 276.74 A333
 25. Inference for Relationships
 26. Case Study
QA 273.6 A33
- 13 Video Cassettes

Against the Grain.

Video Project, (1999)

Discusses genetically engineered food crops. Asks, are they safe or do they pose serious risks to human health and the ecosystem?

Video Cassette (14 min)
SB123.57 A43

The Air We Breathe.

Bullfrog Films (1996)

Filmed in several major urban centers in Canada and the U.S., looks at how certain political choices and socio-cultural forces have led to the growing crisis of air pollution. Examines the damaging effects of commuter culture on the air and our quality of life. Scientists, activists and urban planners map out solutions.

Video Cassette (48 min.)
TD 883 A578186152

Alpine Glaciation.

GeoPhoto Pub. Co

Presents examples of active alpine glaciers and erosional features caused by previous glaciers in the Canadian Rocky Mountains, Unita Mountains, Teton Range, Sierra Nevada Range, and the Cascades.

36 Slides
Guide
QE576 .A56 1989

Amazing Planet.

Distributed by Warner Home Video,
[2007]

In this 3 hour series, one can witness in seconds what took the Earth eons to create: bumper-car continents; ice ages pulsing out of the poles and back; the Himalayas surging upwards; sand dunes swallowing, then uncovering African villages, and more!

2 videodiscs (ca. 180 min.)
QE501.2 .A43 2007

America's National Monuments: Legacy of the Great Plains.

Ambrose Video Publishing, c2006

"In 1906, President Theodore Roosevelt designated the nation's first National Monument and opened the door for all future Presidents to join him in his quest to recognize the diverse depth and breadth of this great nation. Roosevelt's purpose was to preserve significant parcels of American history and geology for future generations of Americans to experience. Hence forth, each National Monument has been designated by a sitting U.S. President as his personal memorial to areas that he deems should be preserved. Some National Monuments garner large budgets and staffs, others next to none. But every one of America's National Monuments tells part of the story of the America's glory"—Container.

v. 1. Geologic wonders of the Northern Plains: chapter 1. Devils Tower National Monument ; chapter 2: Jewel Cave National Monument ; chapter 3. Agate Fossil Beds National Monument

v. 2. Sioux Indian wars: chapter 1. Pipestone National Monument ; chapter 2. Little Bighorn Battle Site National Monument

v. 3. Manifest destiny: chapter 1. Scott's Bluff National Monument ; chapter 2. Homestead National Monument

v. 4. The Southern Plains. chapter 1. Alibates Flint Quarry National Monument ; chapter 2. Capulin Volcano National Monument ; chapter 3. Fort Union National Monument

4 videodiscs (119 min.)

E160 .A5783 2006 Volumes 1-4

America's Nuclear Crisis: A Mountain of Waste.

KLVX News (1993)

Focuses on the DOE's efforts to study Yucca Mountain as the nation's only high-level nuclear waste repository. Describes the history of the project and reveals the challenges facing the DOE as it studies a site that must last 10,000 years. Uncovers problems at another storage facility, in Carlsbad, New Mexico.

Video Cassette (1 hr.)
TD 898.12 N3 A44

Ancient Greece: Weapons of Mass Destruction.

A&E Television Networks c2005

Host, Michael Guillen takes a look at the weapons of Ancient Greece and shows how they are related to the projectile, chemical, and biological weapons of today.

1 videodisc (ca. 50 min.)

U805 .A53 2005

Ancient Sea Turtles : Stranded in a Modern World.

Bullfrog Films, c1998

Discusses the many threats to sea turtles, including the biggest threat of all, the shrimping industry. Turtle excluder devices (TEDs) are shown and their effectiveness in allowing turtles and other larger sea creatures to escape without decreasing the size of the shrimp catch are discussed.

1 videodisc (28 min.)

QL666.C536 A53 1998

Ancient Turbidite Systems: Models and Problems.

AAPG (1989)

Examines the problem of framing ancient turbidite systems within models derived from modern settings.

Video Cassette (50 min)

QE 471.15 T8 A53

Anger.

Filmakers Library, [2005?]

Part one of a four-part series, looks at the primal emotions that are generated in the brain, and how nature and nurture combine to make us feel the way we do. This program examines anger, from its primordial roots in self-defence to its expression in modern violence. The film examines several men who have lost control of their anger and committed violent acts and explores such questions as: Does the potential for impulsive anger lurk in our genes? Why do we still need this emotion and what science can do to help control it?

1 videodisc (43 min.)

BF575.A5 A54 2005

Applications of Conic Sections.

Films for the Humanities and Sciences (1992)

Some examples of conic sections in everyday life lead to a detailed study of two numerical applications of conic sections: parabolic versus ellipsoidal headlight designs in cars and the hyperbola-shaped path of the sonic boom of an airplane.

Video Cassette (10 min.)

QA 485 A66

Area 51: Beyond Top Secret.

A&E Television Network (2005)

The bastion of some of the most top-secret activities in the world is literally impenetrable. It was the original testing site for the atomic bomb and then a high-security aero-engineering cluster. Here its public history ends and after 1968, it simply does not exist. Known by insiders as "Dreamland", Area 51 invokes conjectural theories like no other place. What happens in this zone of the Nevada desert? Through declassified documents and interviews with tenacious researchers and former worker, view the mystery that envelops the Area.

1 videodisc (42 min.)

UG634.5.A74 A74 2005

Arid Lands.

Bullfrog Films, c2007

"A documentary feature about the land and people of the Columbia River Basin in southeastern Washington state. Sixty years ago, the Hanford nuclear site produced plutonium for the atomic bomb dropped on Nagasaki, and today the area is the focus of the largest environmental cleanup in history. It is a landscape of incredible contradictions. Coyotes roam among decommissioned nuclear reactors, salmon spawn in the middle of golf courses, wine grapes grow in the sagebrush, and federal cleanup dollars spur rapid urban expansion. Arid lands takes us into a world of sports fishermen, tattoo artists, housing developers, ecologists, and radiation scientists living and working in the area. It tells the story of how people changed the landscape over time, and how the landscape affected their lives"—Container.

1 videodisc (98 min.)

TD898.12.W2 A75 2007

The Arrangement of Electrons in Atoms.

Classroom Video, (1991)

Describes three experiments that can be done in a student laboratory and some quantum theory for chemistry students.

Video Cassette (30 min)

QC 173 A687

The Ascent of Man.

Ambrose Video

Attempts a massive survey of science, from flint tools to the theory of relativity.

1. Lower Than the Angels
QM23.2 L68
 2. Harvest of the Seasons
GN799 A4 H377
 3. The Grain in the Stone
NA200 G73
 4. The Hidden Structure
QD11 H53
 5. Music of the Spheres
QA21M87
 6. The Starry Messenger
QB15 S73
 7. Majestic Clockwork
QC7 M33
 8. The Drive for Power
HN13 D75
 9. Ladder of Creation
QH366.2 L33
 10. World Within World
QC7 W67
 11. Knowledge or Certainty
BJ57 K56
 12. Generation Upon Generation
QH431 G432
 13. The Long Childhood
CB478 L65
- 13 Video Cassettes

Atomic Filmmakers.

Thousand Oaks, CA : Distributed by Goldhil Video

This documentary film presents the story of the people who worked at Lookout Mountain Laboratory in Hollywood, Calif. These men and women were responsible for making over 6,500 films for the Dept. of Defense and others, many having to do with filming nuclear tests

1 Video Cassette (47 min.)

U264.3 .A88 - Videocassette

Atomic Stampede.

KUED-TV (1994)

During America's Cold War uranium boom fortunes were made and lost, opportunity, failure, and deceit abounded, and human costs were staggering.

Video Cassette (1.2", 58 min)

TN 490 U7 A76

Automotive advances. 1.

Chip Taylor Communications (2001)

News items about technological advances for automobiles involving in-car traffic conditions displays, rapid engineering of automobiles, safety systems for luxury cars, a three-wheeled car, manufacturing of car parts, aluminum in cars, and electric cars.

1 Video Cassette (21 min.)

TL240 .A42 2001

Baked Alaska.

Spanner Films (2003)

Documentary about how rising temperatures and the battle over the Arctic National Wildlife Refuge (ANWR) are impacting life in Alaska.

1 videodisc (ca. 26 min.)

QC984.A4 B33 2003

Before the Mountains.

AAPG (1987)

An introduction to the sedimentary sequences laid down before compressional tectonics formed the Rocky Mountains. Discusses the effect of thrusting on Paleozoic carbonates and shales and the nature of Sloss sequences.

Video Cassette (29 min)

QE 621 B43

Benjamin Franklin.

PBS Home Video (2002)

"Traces Franklin's life from humble beginnings to fame as a scientist, founding father, and America's first diplomat to France."--Container

2 Videocassettes (ca. 210 min.)

E302.6.F8 B445 2002

Benoit Mandelbrot and Fractal Geometry.

Films for the Humanities (1995)

Benoit Mandelbrot takes the viewer on a chaotic "guided tour" through Paris and US locations. Explains his ideas and theories by using ordinary objects and occurrences as examples.

Video Cassette (35 min)

QA 614.86 A46

The Best Mind Since Einstein.

WGBH Educational Foundation

Nova presents a profile of the late Richard Feynman - atomic bomb pioneer, Nobel prize-winning physicist, acclaimed teacher and all-around eccentric.

Video Cassette (54 min.)

QC16.F49 B47 1993

Beyond Human.

PBS Home Video (2001)

Discusses the future of bioengineering and robotics, where humans are becoming more machine-like and machines are becoming more human.

Video Cassette (2 hrs)

R856 .B48 2001

Beyond the Naked Eye: Microscopic Organisms.

Films for the Humanities & Sciences (199?)

Explores the hidden world of single-celled creations such as plankton, diatoms, amoebas, and bacteria and examines their role in maintaining the balance of life of Earth.

Video Cassette (50 min)

QR 41.2 B48

Big Bang Theory.

MPI Home Video

Discusses new evidence found to support the big bang theory. This is the theory that the universe started from a speck of energy that exploded to form the universe.

Video Cassette (23 min.)

QB991.B54 B43 1992

Biodiversity: The Variety of Life.

Bullfrog Films (1992)

Discusses the complex factors involved in conservation biology.

Video Cassette (1.2", 60 min)

Guide

QH 75 B563

The Biology of Death.

Films for the Humanities (1992)

Discusses the biology of death and its causes, including the normal aging process. Also discusses legal and social response to death, and the role of society in investigating and regulating it.

Video Cassette (1.2", 30 min)

QH 530 B56

Biotechnology.

Films for the Humanities (1995)

Explores three promising applications of biotechnology: designer plants that produce their own insecticide; certain diseases; and the development of new, more effective vaccines.

Video Cassette (23 min)

TP 248.2 B55

Bioterror.

WGBH Boston Video (2002)

Judith Miller, Stephen Engelberg, and William Broad, authors of the book *Germs: biological weapons and America's secret war*, trace the history of "black biology" and investigate U.S. involvement in the development of biological weapons.

Video Cassette (58 min.)

UG447.8 .B583 2002

Birth of the Rockies.

AAPG (1987)

Documents the complex system of eastward-directed thrust faults in the Canadian Rockies. Reviews the three main components of thrust sheets of the original sedimentary wedge on North American's western edge.

Video Cassette (28 min)

QE 621.5 N7 B57

Black Hills Domal Uplift.

GeoPhoto Publishing Co. (1983)
 Discusses the geology of the Black Hills in South Dakota and Wyoming.
 21 Slides
 Guide
 QE164.B6 B53 1983

The Blue Planet: Seas of Life; Ocean World; Frozen Seas.

British Broadcasting Corp (2002)
 Explore the oceans of the world learning interesting facts about oceans and the animals and plants that live within them.
 1 videodisc (ca. 98 min.)
 GC21 .B582 2002

The Blue Planet: Seas of Life; Open Ocean ; The Deep.

British Broadcasting Corp (2002)
 Reveals the sea and its communities at their most fearsome and alluring.
 1 videodisc (ca. 98 min.)
 GC21 .B583 2002

The Blue Planet: Seas of Life; Seasonal Seas; Coral Seas.

British Broadcasting Corp (2002)
 Reveals the sea and its communities at their most fearsome and.
 1 videodisc (ca. 98 min.)
 GC21 .B584 2002

The Blue Planet: Seas of Life; Tidal Seas.

British Broadcasting Corp (2002)
 "Tidal seas: The sun and moon move billions of tons of water with every turn of the tide. The strongest tides empty entire bays, smash trees on riverbanks, and strand sea creatures on suddenly dry land. Weaker tides control the movements of huge numbers of fish, coaxing schools of giant stingrays through astounding underwater arches. And as the water recedes, the tide can create unbelievable landscapes--like a sparkling world of salt crystals inhabited only by tiny shrimp and bright pink flamingos. Coasts: From rocky cliffs to gentle dunes, the coasts are always changing. Day in and day out, they are battered by crashing waves. Seabirds come here by the thousands to nest, while baby turtles hatch and race to the sea, pursued by hungry predators. Young sea lion pups are born and play on the sand--until a killer whale attacks, crashing in on the surf. But when breeding season is over, life returns to the sea and the shores are empty once again"—
 Container.

1 videodisc (ca. 98 min.)
 GC21 .B585 2002

Body Atlas.

Ambrose Video (1994)
 Takes viewers on an amazing journey through the human body.

1. In the Womb
 2. Glands & Hormones
 3. Muscle & Bone
 4. Breath of Life
 5. Skin
 6. The Food Machine
 7. Taste & Smell
 8. Visual Reality
 9. Defense & Repair
 10. Sex
 11. The Human Pump
 12. Now Hear This
 13. The Brain
- 13 Video Cassettes (25 min ea)
 QP 34.5 B57 V 1-13

Bomb's Lethal Legacy.

Coronet Film & Video (1990)

Chronicles the story of the Hanford Nuclear Reservation. Attempts to shed light on the early days of the nuclear age, on the options available for cleaning up contaminated nuclear facilities; on the conflict between national security and public accountability, and on the role of science in resolving that conflict.

Video Cassette (1.2", 1 hr)
TD 812.3 W37 B65

The Bonneville Flood.

GeoPhoto Publishing Company

Interprets H.E. Malde's theory of a catastrophic flood from the over topping of the Pleistocene Lake Bonneville.

36 Slides
Guide
GB1399.4.U8 .B66 1993

Bound by the Wind.

David L. Brown Productions, [200-?]

Discusses the effects of nuclear weapons testing, especially the effects on the human population. Features victims of radioactive fallout from these tests. Includes interviews with victims who live near the test sites as well as those who live downwind of the sites, the "downwinders".

1 videodisc (59 min.)
U264 .B685 2000z

The Brain Eater.

WGBH Boston Video (1998)

Highly infectious and incurable, "mad cow disease" has claimed the lives of nearly a million cattle in Britain. Scientists race to determine whether a variant of the disease spells a deadly epidemic for humans.

Video Cassette (1 hr.)
RA644.C74 B73 1998

Brain Sex.

Discovery Channel (1992)

Vol 1: Sugar & Spice. There is a growing body of evidence that men and women do not have identical brain structures - which may account for some of the differences in behavior between the sexes.

Vol 2: Anything You Can Do, I Can Do Better. Scientists remind us that females tend to be better at language skills and verbal reasoning, while men are better at spatial relationships and mechanical things.

Vol 3: Love, Love Me Do. Parts of the brain are differently constructed in men and women. Men's and women's brains may process information in different ways, which results in different perceptions, priorities, and behaviors.

3 Video Cassettes (50 min ea)
QP 81.5 B73

A Brief History of Time.

Paramount Home Video (1993)

Explores the mysteries we've all wondered about such as how did the universe begin against the backdrop of the life story of Stephen Hawking, who is paralyzed by ALS.

Video Cassette (84 min)
QB 981 B75

The Burgess Shale.

New Dimensions Media

Explains how fossils are formed and what kinds of changes occurred during the period of Burgess shale formation in the Pacific Ocean.

Video Cassette (46 min)
QE 770 B87

The Burning Sands.

Ambrose Video Publishing, Inc. (2000)

The world's deserts are the hottest, driest, and harshest places on earth. They cover nearly one third of the earth's surface, across five continents, and pose the same grim challenges: how to survive? This series provides the viewer with a first-hand look at how life survives, and sometimes even thrives, in these arid lands.

1. The Living Sands
 2. The Raging Sands
 3. The Unforgiving World
- 3 Videocassettes (1 hr ea.)
QH 88 B87 2000

Calculus.

- Educational Video Resources (1992)
Differentiation Rules: Powers and Sums (14 min) QA 303 D63
Logarithmic Differentiation (20 min) QA 303 L84
Areas, Antidifferentiation & The Fundamental Theorem of Calculus (21 min) QA 303 A74
Integration Formulas (21 min) QA 303 I57
Volume Problems (20 min) QA 303 V64
Applications to Physics (28 min) QA 303 A63
 6 Video Cassettes

Can Buildings Make you Sick?

- WGBH (1995)
 Examines "sick building syndrome," a condition where people suffer from sicknesses caused by absorbing toxic fumes or other pollutants found in some modern airtight buildings.
 Video Cassette (56 min.) TD883.17 C35

Cancer Warrior.

- WGBH Video (2001)
 Dr. Judah Folkman shares his forty-year quest of a radically new cancer treatment including the development of the drug Endostatin. Discussed are anti-angiogenic drugs and how they can slow tumor growth by stopping the process of developing new blood vessels and interfering with the tumor's blood supply.
 Video Cassette (1 hr.) RC271.N46 C35 2001

Carbonate Facies and Reservoir Heterogeneity - The Value of Modern Analogs.

- AAPG (1989)
 Discusses carbonate facies in general, examines the reasons for facies variability in carbonates, gives reasons for needing to understand facies patterns in subsurface studies, and looks at studies from modern examples that help in understanding this facies variation.
 Video Cassette (51 min) QE 471.15 C3 C345

Carbonate Petrography.

- AAPG (1982)
 Presents the basics of petrographic study. Shows carbonate thin sections under electron microscopic examination, rotates them under polarized light, and instructs on classification and description of the properties observed. Also explains the importance of petrography as a tool for interpreting changes in carbonate rocks
 Video Cassette (28 min)
 Guide 9 p)
 QE471.15 C3 C348

Case Studies in Science Education.

- CPB Math and Science Collection (1997)
 "These 25 case studies take science education reform to a personal level, where individual teachers struggle to make changes that matter. Each case follows a single teacher over the course of a year and is divided into three segments: the teacher's background and the problem he or she chooses to address, the identification and implementation of a strategy which addresses the problem, and the outcome with assessment by the teacher and advisor."—Container

- Tape 1.** Jennie (grade K) ; Patricia (grade 1) ; Jean (grade 3) ; Donna (grade 5)
Tape 2. Elsa (grade K) ; Ingrid (grade 1) ; Richard & Jo-Ann (grade 2) ; Terez (grade 4)
Tape 3. Najwa & Pat (grade 1) ; Linda (grades 2-4) ; Sarah (grade 5) ; Tom (grade 5)
Tape 4. Erien, year 1 (grade 5) ; Erien, year 2 (grade 7) ; Dotty (grade 7) ; Nancy (grade 8) ; Margarita (grades 5-8)
Tape 5. Greg (grade 6) ; Paul (grade 6) ; Raquel (grade 7) ; Pat (grade 8)
Tape 6. Jeff (grade 6) ; Mike (grade 7) ; Audrey, year 1 (grade 8) ; Audrey, year 2 (grade 7)
 LB1585.3 .C37 1997 tapes 1 – 6

Catastrophic Event.

Films for the Humanities (1994)

Geologists are becoming proponents of the theory of catastrophism: that the sudden transition which occurred on Earth 65 million years ago was caused by some catastrophic event. On the border the Netherlands is a unique site which reveals in considerable detail what happened.

Video Cassette (14 min)

QC 506 C38

Chaos and Fractal Forms: Irregularity in Nature.

Blue Sky Associates, 1990

Discusses the difference between man-made and nature-made structures, the nature of predictability, chaos, fractals, and uses of fractals.

Video Cassette (42 min)

Q 172.5 C45 C425

Chaos, Science, and the Unexpected.

Filmakers Library (1992)

Makes visible the abstract concepts of what is predictable and what is random in nature and explores the state called chaos that lies at the borderline between these two extremes.

Video Cassette (53 min)

QA 76.9 C65 C43

Chasing El Nino.

WGBH (1998)

NOVA explores El Nino's myths, reveals its devastation and explains its fascinating origins.

Video Cassette (1hr)

GC 296.8 E4 C43

Chemical Conundrum.

Films for the Humanities & Sciences, c2005

This program explores the health impact of manufactured chemicals found in pesticides, plastics, and other products. The benefits of these chemicals are weighed against their dangers.

1 videodisc (23 min.)

RA1219.3 .C44 2005

Chemical Cycles in the Biosphere.

Hawkhill Associates (1994)

Develops a basic understanding of the cycling of chemicals in the earth's biosphere.

Video Cassette (21 min)

QD 415 C44

Chemical Kids.

Filmakers Library (200-?)

Discusses the chemical heritage we're bequeathing our children and the damage it can cause.

Video Cassette (1 hr.)

TD195.C45 C44 2000z

Chemistry: The Periodic Table & Periodicity.

Coronet/MTI (198?)

Animation develops the relationship between the electronic structure of an atom and its properties. Demonstrates why there are families of elements and gradual changes in the properties of elements arranged by atomic number across the table.

Video Cassette (24 min)

QD 467 C44

Chernobyl and the Three Mile Island: A Spacebridge.

Search for Common Ground & Internews (1987)

Documents the common ground discovered during a spacebridge, a satellite link-up of U.S. and Soviet officials, scientists, and citizens, engaged in an unprecedented public discussion about common problems in the nuclear age. The spacebridge took place on September 11, 1986.

Video Cassette (29 min)

TD 9153 C44

Chernobyl: Chronicle of Difficult Weeks.

The Video Project (1986)

Shevchenko's film crew was the first in the disaster zone following the meltdown. They shot continuously for more than three months. Portions of the film are exposed with white blotches -- a radiation leak.

Video Cassette (54 min)

TK 1365 S65 C43

Chernobyl: The Taste of Wormwood.

Films for the Humanities (1987)

Provides on-site photography of the blast site and of people and areas affected. This program is the result of investigative work by a team of Japanese reporters.

Video Cassette (1 hr)

TK 1362 S65 C483

City of Coral.

Time-Life Video. Nova Series (1983).

A voyage through one of the world's most fascinating and colorful ecosystems: a coral reef, where the line between plants and animals is blurred, "rocks" move, eat and fight, fish are farmers, and weak animals borrow the shields and weapons of stronger ones. Cameras reveal the creatures of the reef demonstrating some of the strangest solutions to the problem of survival on earth.

Video Cassette (57 min.)

QH 541.5 C7 C55927804

Climate Researchers.

Ciné Fête, c2007

"Mount Saint Valentin, at 4,000 meters the highest mountain in Patagonia, is mythical to Chileans. It is not very high, but it's difficult to access and is swept by the constant storms that hit this land at the end of the world. It was here that scientists decided to drill and remove a hitherto untouched ice core ice that is filled with information for studying past climates and providing data for today's models. These are the models that tell us about climate change. For two years, French and Chilean glaciologists battled with the elements and with twists of fate, in order to extract precious ice samples one by one. These samples eagerly awaited by the laboratories would not only "make the ice talk" but fulfill the purpose of this formidable scientific adventure"—Container.

1 videodisc (52 min.)

QC981.8.C5 C635 2007

The Cloning Revolution.

Films for the Humanities and Sciences (1998)

Examines cloning, from its beginnings and the creation of Dolly the sheep, to the latest technology, including the production of customized cells, organs, and animals. Examines the ethics of these new technologies and practices.

Video Cassette (50 min)

QH 442.2 C58

Coastal Processes.

GeoPhoto Pub. Co

Depicts the processes that form coastlines including submergent shorelines, emergent shorelines, unusual shorelines, and depositional features.

36 Slides

Guide

GB451.2 .C62 1989

Cold Fusion.

Edison Power Research Institute (1989)

Discusses how experiments which achieve fusion at room temperature are conducted. Explains why the results are difficult to reproduce and verify.

Video Cassette (58 min)

QC 791.775 C64 C64

Conceptions of Dislocations.

Penn State (1975)

Employs animation on an atomic scale to describe what happens when dislocations occur. Illustrates the relationship between edge and screw dislocation and also shows slip planes, dislocation loops, and mixed dislocations. Plastic deformation at low stress levels is illustrated.

Video Cassette (7 min)

QD 921 C65

Confusion in a Jar.

Coronet (1990)

Follows the adventure of scientists' attempts to verify the discovery of "cold fusion". Highlights the cold fusion controversy, explores the implications of fusion as a source of energy and show why the reproducibility of scientific results is important.

Video Cassette (58 min)

Guide (6 p.)

QC 791.735 C65

Connections.

Ambrose (1979)

1. The Trigger Effect. The Blackout in New York City illustrated our near complete dependence on modern technology to keep our world operating.

How did we become so vulnerable?

T 15 T 75

2. Death in the Morning. The ability to standardize precious metal in coins led to thriving trade between Greece and Persia, which led to a library at Alexandria, where navigators pooled their knowledge about magnetic properties that guide the compass, and led to the discovery of electricity, radar and eventually, the atomic bomb.

T 15 D28

3. Distant Voices. Imagine, a link between the telephone and riding stirrups? The studies of scientists like Galileo formed the foundations for radio, telephones, and deep space telecommunications.

U 37 D57

4. Faith in Numbers. Each change in a system spurs other changes, whether economic, electronic, or mechanical.

T 18 F35

5. Wheel of Fortune. The ailing Caliph of Baghdad was cured by an astrologer. Word of his medical secrets spread throughout Europe, where the constellations gained influence over everyday life. The need to measure the heavens gave rise to the pendulum clock, the telescope, forged steel and interchangeable machine parts.

T 18 W44

6. Thunder in the Skies. A dramatically colder climate gripped Europe during the 13th century, changing the course of history forever. The changes in energy usage transformed architecture and forced the creation of new power sources.

T 18 T48

7. The Long Chain. When a Scottish inventor found a way to produce pitch from coal tar, he found the market for pitch had shifted to using cooper. His experiments with coal tar instead yielded gaslight lamps, waterproof garments and nylon.

T 15 L65

Connections (con't)

Ambrose (1979)

8. Eat, Drink and Be Merry. Napoleon's need to store provisions for his troops led to a French invention: preserving sterilized food in empty champagne bottles. The British introduced a sensible tin can.

T 47 E27

9. Countdown. Combine a carbon arc light, a billiard ball coating, a spooked wheel and some consecutive images and you get motion pictures!

TR 848 C68

10. Yesterday, Tomorrow and You. Will the chain of circumstances that shaped our past continue to affect our future? A look ahead examines how we must use information in the future to control our destinies.

HN 18 Y47

10 Video Cassettes (1 hr each)

Contact UFO: Alien Abductions.

Maljack Prod (1991)

Investigates personal accounts of abductions by alien beings.

Video Cassette (90 min)

TL 789.3 C65

A Conversation with Paul Halmos.

Mathematical Association of America, (1994)

A panel discussion with Prof. Halmos on his book I Want to be a Mathematician: an automathography in three parts, on mathematics and on mathematics education.

Video Cassette (60 min)

QA29 H19 A352

Count on Me.

PBS Video (1993)

A cast acts out an elementary school's "math night" and presents teaching strategies for mathematics.

Video Cassette (56 min)

QA 135.5 C67

Cracking the Code of Life.

WGBH Boston Video (2001)

Describes the race to decode human DNA and raises questions of whether or not we may want to know what's in our genes and whether decoding DNA will lead to cures.

Video Cassette (2 hrs)

QH445.2 .C73 2001

Crapshoot: The Gamble With Our Wastes.

Bullfrog Films, c2003

A hazardous mix of waste is flushed into the sewer every day. Where does it all go? What does it do to us? Filmed in several countries, this documentary questions whether the sewer is actually compounding our waste problems. Scientists warn of links between sewage practices and potential health risks, while activists, engineers and concerned citizens challenge our fundamental attitudes to waste. Does our need to dispose of waste take precedence over public safety? What are the alternatives?

1 videodisc (53 min.)

RA567 .C73 2003

Crater Lake and Lava Cast Forest.

GeoPhoto Pub. Co. (1979)

About 7,000 years ago Mount Mazama was a 12,000 foot peak but volcanic activity reduced it to 6,000 feet with a 6-mile-wide caldera now covered by Crater Lake. Discusses geology of the mountain and lake and also shows the Lava Cast Forest about 60 miles north of Crater Lake.

15 Slides

Guide

QE523.M39 C73 1979

Craters of the Moon, Idaho.

GeoPhoto Pub. Co., c1980

Shows volcanic features at the Craters of the Moon National Monument near Arco, Idaho.

20 Slides

Guide

QE524.2.U6 C73 1980

Crustal Deformation.

GeoPhoto Pub. Co

Presents examples of geologic deformation of the earth's crust including folds, joints, faults, horsts, grabens, and unconformities.

36 Slides

Guide

QE604 .C78 1989

Cure From the Crypt .

Films for the Humanities & Sciences (2002)

"When a crypt containing 200 extraordinarily preserved bodies was discovered in 1994 in the Hungarian town of Vac, it caught the interest of a scientist fighting tuberculosis on the other side of the globe. This program presents the fascinating story of Professor Mark Spigelman, an Australian surgeon turned archaeologist who is using ancient DNA to contend with the biggest bacterial killer in the world today. In what many call the post-antibiotic era, Spigelman's unique genetic research has yielded encouraging results: all the tubercular mummies were missing a TB-resistant gene in their genome; those mummies without TB had the gene."—
Container.

1 videocassette (27 min.)

RC311.4 .C87 2002

Cutting Edge Technologies.

PBS Home Video,

Dr. William Haseltine, who manipulates genes to create new drugs and is the CEO of Human Genome Science, discusses issues such as cutting edge technologies, science as business, and research and development with Dr. David Huber, President and CEO of Corvis Corporation, who through manipulation of light is taking telecommunications to the next level.

Video Cassette (1 hr.)

T173.8 .C87 2000

Damaged: When Trauma Leads to Violence.

Films for the Humanities & Sciences
(2004)

"This program investigates the relationship between abuse suffered as a child and the likelihood of committing murder later in life especially when that abuse results in brain damage. The horrific slaying of Peyton Tuthill by Donta Page is examined, and the case of a mild-mannered doctor who became violent due to pressure from a brain tumor is addressed. Also featured are the findings of various experts, including forensic psychiatrist Dorothy Otnow Lewis, expert witness for Page's defense; Adrian Raine, whose studies of 41 murderers have consistently revealed frontal lobe damage; and neurologist Jonathan Pincus, author of 'Base instincts: what makes killers kill?' Original BBC broadcast title: 'Damaged'—Container.

1 videodisc (50 min.)
HV6515 .D355 2004

Dark Circle.

Docurama (2006)

A documentary that follows the trail of plutonium from the Rocky Flats Nuclear Weapons facility in Colorado, to the Diablo Canyon Nuclear Power Plant in California, to Hiroshima and Nagasaki in Japan.

1 videodisc (ca. 82 min.)
HD9698.U62 D37 2006

Dating the Earth.

Films for the Humanities & Sciences
(2004)

"This program travels back in time to uncover the place where life began: volcanoes on the floor of the primordial ocean."—Container.

1 videodisc (50 min.)
QE31 .D38 2004

The Day after Trinity.

Pyramid (1981)

Examines the life of J Robert Oppenheimer, principal architect of the atomic bomb. Journeys through the development of the bomb, from its beginnings through the aftermath of its use on Japan. Focuses on Oppenheimer's opposition to the continued development of nuclear weapons during the McCarthy era of the 1950s.

Video Cassette (1hr 28 min)
QC 774 O66 D39

The Day the Earth Shook.

WGBH Video (1996)

Compares the Northridge, California, earthquake of January 17, 1994, with the Kobe, Japan, earthquake of January 17, 1995. They were of the same magnitude, but casualties in Japan were much higher.

Video Cassette (60 min)
QE 534.2 D28

Deadly Enemies.

First Run/Icarus Films (2004)

"... documents the secret history of biological warfare. Using archival footage from the 1950s, filmmaker Susan Lambert demonstrates how science and politics colluded to play a game of one-upmanship"—Container.

1 videodisc (52 min.)
UG447.8 .D42 2004

Death by Design: Where Parallel Worlds Meet.

First Run (1995)

A guided tour into the world of cells, told through a collage of metaphors.

Video Cassette (1 hr. 15 min.)
QH 582.4 D42

Death Valley.

Story Behind the Scenes Audio (1991)

Discusses the history, geology, animal and plant life of Death Valley.

Cassette
F 868 D2 D26

Death Valley.

GeoPhoto Publishing Co. (1985)
Discusses the geology of Death Valley National Park in California and Nevada.

38 Slides
Guide
QE90.D35 D42 1985

The Deep-Fried World of Organic Chemistry.

Cerebellum Corporation
Video study aid for college organic chemistry courses.

Tape 1 – Overview, Review of Basic Chemistry, Hybridization States of Carbon, Alkanes (2 hrs. 20 min.)

Tape 2: Introduction to Organic Reactions, Alkenes, Electrophilic Addition Reactions (1 hr. 46 min.)

Tape 3: More Electrophilic Addition Reactions, Alkynes, Alkyne Addition Reactions (2 hrs.)

3 Video Cassettes
7 Cards
QD253 .D43 1997

Deformation of Crystalline Materials.

Penn State Audio Visual Services (1975)
Pt 1: A 50-ft cooper wire is deformed under different loads. The components of elastic, anelastic, and plastic deformation are plotted on a stress-strain diagram. Simultaneous presentation of the deformations are the stress-strain curves emphasizes their interpretation. (5 min)

Pt 2: Single crystals of zinc in different orientations are deformed in a tensile testing machine. An animated sequence of plastic deformation is related to the basal slip plane of a hexagonal closed-packed structure. A polycrystalline specimen is also deformed. (7 min)

2 Video Cassettes
QD 921 D44 vol 1-2

Desert Flash Flood.

GeoPhoto Publishing Co. (1976)
Discusses flash flooding in San Diego, California, especially in Ocotillo and surrounding environs in 1976. Shows the accelerated erosion and deposition caused by flash floods and effects of flash flooding on the human environment.

36 slides
Guide
GB1399.4.C2 D47 1976

Deserts.

GeoPhoto Publishing Co
Presents examples of erosional and depositional conditions in desert regions including arroyo cutting and water erosion, playas, pediments, alluvial fans, wind scour, and wind deposits.

36 Slides
Guide
GB614 .D47 1995

Determining Significant Figures.

Prentice-Hall Media (1972)
Teaches the basic rules for determining the number of significant figures in a numerical expression and how to use these rules for determining the correct number of digits in various arithmetic operations.

24 Slides
Cassette
Workbook
QA 141.15 D47

Devils Tower.

GeoPhoto Publishing Co., c1983
Discusses the geology of Devils Tower National Monument.

9 Slides
Guide
QE182.D4 D48 1983

Dirty Bomb.

WGBH Boston (2003)

Discusses "How easy is it to make a dirty bomb, and how does it differ from a conventional nuclear bomb? What would happen if terrorists were to explode a dirty bomb in the middle of London or Washington, DC? How dangerous is the fallout from a dirty bomb? What are the long-term effects and how well do we really understand them? And how can lives be saved if one explodes?"--Container

1 Video Cassette (60 min.)

HV6431 .D57 2003

Do Scientists Cheat?

Coronet Film & Video (1989)

Nova examines why scientific fraud is so hard to detect and details the numerous factors which influence fraud, including and increasing competition for grant money and tenured positions. Analyzes how scientists implement quality control and considers the adequacy of the scientific community's response to serious fraud.

Video Cassette (1 hr)

Q 172.5 F7 D63

Double Helix: Life Story.

Films for the Humanities & Science (1998)

Dramatization of the diligent research, creative analysis, and perseverance of James Watson and Francis Crick that led to the discovery the Double Helix (structure of DNA). With the help of their colleague, Maurice Wilkins, they also earned the 1962 Nobel Prize.

Video Cassette (1hr 48 min)

QP 624 L54

Earth Explorer.

WGBH/Boston (1995)

Profiles the career of geophysicist Marcia McNutt, tenured professor in earth sciences at M.I.T. Her research on the earth's geological plates centers on a critical juncture beneath Lake Mead, Nevada and the xenoliths of Tahiti.

Video Cassette (1 hr)

QC805.M32 E27

Earth in the Hot Seat.

A & E Television Networks, [2002]

Is pollution causing the Alaskan ground warming, glaciers melting and forests dying? "Alaska is definitely melting" Also studies being conducted in the highest mountains in the Tropics indicate glacier retreat "99 ft. a year" with glacier landscape changing from 5 to 2 glaciers in South America regions. Global warming could be the cause for a glacier in Bolivia, Perú or Antarctica to disappear completely in 50 years.

1 videodisc (ca. 50 min.)

QC981.8.G56 E27 2002

Earth on Edge.

Films for the Humanities & Sciences (2001)

Bill Moyers reports on the impact of human activity on the planet.

Video Cassette (2 hrs.)

QH541.E265 B54 2001

Earthquake Country.

Filmmakers Library (1989)

Gives an authoritative explanation of why earthquakes occur and how teams of scientists research the phenomenon. With archival footage and first-hand accounts, shows how the flaws in the earth's crust produce the strains that become earthquakes.

Video Cassette (52 min)

QE 534.2 E37

Earthquakes: Salton Trough Rift Faulting.

GeoPhoto Publishing Co. (1988)

Focuses on earthquakes occurring in 1979 on the Imperial Valley Fault and in 1983 on the Superstition Fault in the Salton Trough in southern California and northern Baja California.

36 slides

Guide

QE535.2.U6 E272 1988

18 Ways to Make a Baby.

WGBH Boston Video, c2001

In-depth look at the scientific breakthroughs in reproductive science, their impact on human lives, and the doctors and biologists on the leading edge.

Video Cassette (. 1 hr)

RG135 .A22 2001

[Einstein] A. Einstein: How I see the world.

PBS Home Video ; Atlanta, GA : Turner Home Entertainment, 1995

Chronicles how the world's most famous Nobel Prize winner, scientist Albert Einstein, became its most eloquent advocate for peace. News films show the public figure, home movies reveal the private man, and much of the film is told in Einstein's own words, which have been excerpted from his diaries, personal letters and writings.

Video Cassette (56 min.)
QC16.E5 A412 1995

Einstein.

WGBH (1979)

An insightful film portrait of the man whose ideas changed the way we see and manage our world. Explores the man and his mind with rare interviews and footage.

Video Cassette (1 hr)
QC 16 E5 E363

Einstein Revealed.

WGBH Boston Video (1996)

Gives a portrait of the physicist Albert Einstein as a passionate young man.

1 videocassette (111 min.)
QC16.E5 E516 1996

Einstein: The Man Behind the Genius.

Kultur (2000)

Explores Einstein's private life.

1 Video Cassette (60 min.)
QC16.E5 E364 2000

Einstein's Big Idea.

WGBH Boston Video (2005)

Einstein arrived at his 1905 discovery that the realms of matter and energy are linked. Reveals the roots of this breakthrough in the human stories of scientists Michael Faraday, Antoine Lavoisier, and Lise Meitner, whose innovative thinking helped lead to $E=mc^2$, and ultimately unleashed the power of the atom.

1 videodisc (approx. 112 min.)
QC73.8.C6 B632 2005

Einstein's Unfinished Symphony.

Films for the Humanities & Sciences (2005)

"Revolted by quantum theory, Einstein spent his final decades trying to create an all-encompassing mathematical model of the universe in which God indeed does not play dice. In this program, theoretical physicist Michio Kaku and experts from Cambridge, MIT, and elsewhere discuss Einstein's revolutionary time/space theories of 1905, the ascendancy of quantum mechanics and string theory, and Einstein's unwavering belief that the laws of nature—elegant and precise—must reveal a universe of divine predictability down to the last subatomic particle. A gripping dramatization of Einstein's last two days paints a vivid portrait of an idealistic scientist who never gave up seeking"—Container.

1 videodisc (50 min.)
QC16.E5 E52 2005

Einstein's Wife: The Life of Mileva Einstein-Maric.

PBS Video,(2003)

Einstein's first wife, a brilliant mathematician, collaborated with him on some of his famous works. This video uses long-hidden documents, love letters and biographies to piece together their partnership.

1 videodisc (60 min.)
QC16.E5 E527 2003

Electric Powerhouse.

Cambridge Educational (2005)

This program looks at the production, transportation, and consumption of electricity. Using the Hoover Dam as an example of efficient hydroelectric power generation, this DVD illustrates how transformers raise or lower voltage to manageable levels and how electricity is specifically channeled to illuminate buildings, power devices, and propel vehicles. It also illustrates the difference between alternating and direct current, and explains the differences between neon and filament bulbs.

1 videodisc (18 min.)
TK1001 .E44 2005

Energy Alternatives: Fusion.

Films for the Humanities (1988)
Examines the advantages and disadvantages for the concept of fusion and the nature of fusion research. Focuses on the Princeton TFTR fusions project and compares it to others.

Video Cassette (26 min)
QC 791.4 E53

Energy War.

First Run/Icarus Films (2007)
Profiles newly emergent 'superpowers' such as Iran and Venezuela. Thomas Friedman analyzes the political concept of 'petro authoritarianism' and Kenneth Deffeyes explains the 'Peak Oil' phenomenon, the point at which the earth's supply of oil begins its terminal decline. Concludes by investigating the search for alternatives to our dependency on oil, featuring interviews with economists, stock market traders, and new energy entrepreneurs, who discuss the pros and cons of such possible substitutes as biofuels, hydropower, nuclear and solar energy.

1 videodisc (78 min.)
HD9560.5 .E54 2007

The Environment: Scientific Spin Doctors.

Films for the Humanities & Sciences
Discusses the consequences of exploiting science to shape public policy. The issue used as an example is global warming.

Video Cassette (29 min.)
Q175 .E488 2000

Epidemic!

Films for the Humanities & Sciences
Examines the biological, ecological, and cultural factors influencing the causes, spread, and control of infectious diseases including the overuse of antibiotics.

Video Cassette (57 min.)
RA651 .E58 2000

Erratic Rocks and Cream City Bricks: Building Milwaukee from the Ground Down.

Blue Sky Associates (1992)
Explores the history of the geology of land in Wisconsin. The lecture concentrates on the effect of glaciers, continental drift, and bedrock activity.

Video Cassette (62 min)
QE 180 M53

The Estrogen Effect: Assault on the Male.

Films for the Humanities & Sciences (1998)
Examines possible recent environmental factors causing changes to the reproductive systems of male animals and humans as well.

Video Cassette (53 min.)
RC 889 E77

The Ethics of Cloning.

Films for the Humanities & Sciences (1997)
The technology of cloning has raised a host of moral, ethical, and religious questions, and this program examines all of them. Includes a panel discussion in which experts debate ethical issues.

Video Cassette (29 min)
QH 442.2 E74

Ethical Issues in Research and Science.

Sylvan Lake Associates (1993)
Self-instructional course about ethical issues in research and the administrative requirements to deal with misconduct in research and science. Also provides case studies for main ethical concerns for the conduct of research and provides examples of policies based on federal regulations and guidelines.

1 computer disk
BJ57 E74

The Eurotunnel.

Unapix Entertainment (1997)
Discusses the struggle to link England and France by a railroad tunnel beneath the English Channel.

1 Video Cassette (52 min.)
TF238.C4 E87 1998

The Evil Dust.

Films for the Humanities & Sciences
(2006)

Human enthusiasm for progress--particularly when shortsighted, misguided, or tainted by self-interest--can ricochet, marring the global environment and the lives of millions. "Looking back in the light of present knowledge, it is impossible not to feel that opportunities for discovery and prevention of asbestos disease were badly missed." So wrote the England's ex-Chief Medical Inspector of Factories, Thomas Legge, in 1934. Although England began to regulate asbestos use in the 1930s, in the US the industry only began to acknowledge the dangers in the late 1970s, when corporate documents uncovered in lawsuits proved that industry officials knew of and tried to conceal the dangers of the material.

1 videodisc (30 min.)
RC965.A7 E84 2006

Fact or Fiction?

ABC News (1995)

Discusses the truth about studies and statistics that shape people's thinking.

Video Cassette (13 min)
HN 90 M3 F22

The FBI.

Distributed by Warner Home Video,
(2003)

Enter the inner sanctum of today's FBI, with unprecedented access granted to National Geographic. Witness the Bureau's top-secret Strategic Initiative Operations Center at work. Explore the history of the FBI, from the days of J. Edgar Hoover till now.

1 videodisc (60 min.)
HV8144.F43 F285 2003

FBI's Crime Lab.

A & E Home Video (2003)

In April 2003, the new FBI Crime Lab was opened and dedicated to the memory of all crime victims. At 500,000 sq. ft. and equipped with the most modern equipment, it is considered one of the finest crime labs in the world. All the efforts are focused on using modern forensic science in order to solve crimes.

1 videodisc (ca. 50 min.)
HV8144.F43 F297 2006

Field Trip to the Keweenaw Rift: Lava Flows and Copper.

Michigan Technological University (1987)

Describes the geology, lava flows and copper deposits of the Keweenaw Rift on Lake Superior.

Video Cassette (41 min)
Field Guide (116 p)
QE 126 K4 F54

Finite Oceans.

Discovery Enterprises Group (1995)

Discusses how small concentrations of pollutants in the oceans threaten ecosystems at all levels. Also shows the effects of chemicals on the largest bodies of fresh water such as the Great Lakes.

Video Cassette (1 hr.)
GC1085 .F563

The Fire Below Us: Remembering Mount St. Helens.

Global Net Productions (1995)

Spectacular devastation footage combined with dramatic re-enactments shows you what it was like to live through the awesome fury of the May 18, 1980 eruption of Mount St. Helens. Features filmmaker Michael Lienau's personal story of survival.

Video Cassette (68 min)
QE 523 S23 F57

Flock of Dodos: The Evolution-Intelligent Design Circus.

Docurama Films (2007)

Tweaks egos and pokes fun at both sides in the evolution vs. intelligent design debate. From the shadowy, well-funded headquarters of the pro-intelligent design Discovery Institute in Seattle to the rarefied talk of scientists around a late-night poker table.

1 videodisc (ca. 85 min.)
BL263 .F56 2007

Flood!

WGBH Video (1996)

Chronicles the 1993 floods in the upper Mississippi River Valley, with examinations of the damages sustained in Illinois and Missouri.

Video Cassette (1 hr)
GB1399.4.M72 F56

Flooding in the Arid Urban Environment.

GeoPhoto Publishing Co. (1983)

Discusses floods in Tucson, Arizona, in October 1983, along the Santa Cruz River. Illustrates the often-catastrophic effects of land use practices that permit river encroachment.

37 slides

Guide

GB1399.4.A6 F56 1983

Florida Sinkholes.

GeoPhoto Publishing Co. (1981)

Discusses the geologic processes leading to the formation of a sinkhole.

36 Slides

Guide

QE600 .F56 1981

For All Practical Purposes.

Annenberg/CPB (1993)

Library has modules 6-10

6. **Overview** explains how to understand what data is and how it is collected, organized, and analyzed.

7. **Behind the Headlines** demonstrates the use of random sampling methods and randomized comparative experiments.

8. **Picture This** reveals changes and patterns that help define mean, median, quartile, and outlier with graphs, histograms, and box plots.

9. **Place your Bets** examines techniques of sampling distributions, normal curves, standard deviations, expected value, and the central limit theorem.

10. **Confident Conclusions** explains statistical inference and how it is based on calculations of probability.

3 Video Cassettes (30 min per module)

QA 276 F642

The Foreland Basin.

AAPB (1987)

The nature of foreland basins and their plate tectonic setting related to continental collision. Discusses tectonic uplift, stratigraphy, basin fill, and possible controls on sedimentation.

Video Cassette (28 min)

QE 571 F67

Forensics: Who Killed the Iceman?

Discovery Communications (2003)

"Discovered by hikers in the Italian Alps, the Iceman, also known as "Otzi," is 5,300 years old, the oldest frozen mummy ever found. Forensic experts and archaeologists investigating the cause of his death have uncovered new evidence that reveals a shocking conclusion. Scientists hope to use this information to reconstruct the last hours of the Iceman's life."—

1 videocassette (ca. 52 min.) + 1

guide (12 p)

GN778.22.I8 F67 2003

Fooling with Nature.

PBS Video

Examines new evidence in the controversy over the danger of manmade chemicals to human health and the environment.

Video Cassette (55 min)

TD196.C45 F66 1998

Fractals : The Colors of Infinity.

Films for the Humanities (1994)

Presents an explanation of the Mandelbrot set, what it means, its internal consistency, and the revolutions in thought resulting from its discovery.

Video Cassette (52 min.)

QA 614.86 F687

From Chechnya to Chernobyl.

Bullfrog Films (1997)

The tiny, little-known country of Belarus has suffered more than any other in the aftermath of the 1986 Chernobyl nuclear disaster. Thousands of villages and towns were abandoned or evacuated, and their populations resettled to safer areas.

Grünberg visited one of these villages where we meet the Tsipiaevs, a family of ethnic Russians who had recently left their native Chechnya. Like many, they have chosen to risk their health, and the health of their children's children, in exchange for a life without the constant fears of living in a war zone.

Video Cassette (45 min)

HN 530.7 A8 F76

From Rock to Sand to Muck: All the Dirt on Soils.

Blue Sky Associates (1996)

Norman Lasca discusses all aspects of soil: definition, functions, types, composition, properties and erosion. Also discusses soil conservation.

Video Cassette (63 min)

S591 .F76 1996

Futures.

PBS (1991)

Created to motivate students to learn science and mathematics.

Agriculture

Aircraft Design

Architecture & Structural Engineering

Fashion

Optics

Putting Man in Space

Sound Engineering

Water Engineering

6 Video Cassettes (15 min per

program)

6 Guides

QA 10.5 F882 pt 1-6

Galileo.

Kultur

Story of the Italian astronomer and mathematician who dared to challenge the accepted teachings of his day. Includes comment and interpretation by historians Les Prince and Joel Roderick.

Video Cassette (50 min.)

QB36.G2 G317 2001

Galileo: A Dialog on Science, Mathematics, History and Drama.

Mathematical Sciences Research Institute (1999)

A dialogue between the mathematician Robert Osserman, G.V. Coyne, S.J., Director of the Vatican Observatory, and Galileo performed by Michael Winters in an excerpt from the Life of Galileo, a new English version by playwright David Hare of the play by Bertolt Brecht.

1 Video Cassette (50 min.)

+ 1 sheet ([3] p.)

QB36.G2 G3173 1999

Galileo's Battle For The Heavens.

WGBH Boston Video (2002)

Dramatization of Galileo Galilei's life, including his scientific achievements and his defense of his controversial theory that the earth revolves around the sun. Also discusses how letters from his illegitimate daughter, Maria Celeste, a cloistered nun, have shed new light on Galileo's discoveries and his trial for heresy.

Video Cassette (114 min.)

QB36.G2 G64 2002

Genesis.

Direct Cinema Ltd (1987)

Explores the concept that the earth was once comprised of a single landmass. Examines the new data which has made the concept of continental drift widely accepted. Simulates the earth's history of constant change and reveals how the changes within the earth affect human history.

Video Cassette (32 min)

QE 511.4 G45

Genetic Discoveries.

Films for the Humanities & Sciences (2006)

"This program guides students through advances in biotechnology and genetic engineering that may lead to long-sought medical treatments and cures. Presenting the 19th-century development of aspirin as the first synthetic imitation of a naturally derived medicinal substance, the video demonstrates large-scale present-day experiments on fungi and plant material that make gene-based medical breakthroughs almost inevitable. The creation of smart plastics for surgical applications will further expand students' understanding of where medicine and nanotechnology meet"—Container.

1 videodisc (30 min.)

QH506 .G45 2006

Genetic Engineering: The Double-edged Sword.

Films for the Humanities (1998)

Examines the issues that face us as genetic engineering moves out of the research labs. Tries to distinguish between positive research and medical manipulation.

Video Cassette (29 min)

QH 442 G4543

Genetics.

Discovery Communications (2006)

"Only a century or so old, genetics is now a cornerstone of the life sciences. This program presents 13 vital contributions to the field: Gregor Mendel's rules of heredity; Thomas Hunt Morgan's detection of chromosomal gene location; George Beadle and Edward Tatum's "one gene, one enzyme" concept; Barbara McClintock's discovery of transposons; the acceptance of DNA as the basis of genetic information; James Watson and Francis Crick's double helix; Marshall Nirenberg's genetic code; the discoveries of RNA, restriction enzymes, RNA splicing, and RNA interference; Alec Jeffreys' DNA identification technique; and the Human Genome Project"—Container.

1videodisc (46 min.)

RB155 .G45 2006

Geologic Hazards.

GeoPhoto Pub. Co., c1989

Presents examples of geologic hazards found in the United States, including sinkholes and land subsidence, earthquakes, volcanism, human-caused problems, mass wasting, and running water.

36 Slides

Guide

GB5010 .G46 1989

Geology of the British Isles.

GeoPhoto Publishing Co. (1993)

Discusses the geology of the British Isles.

48 Slides

Guide

QE261 .G46

Geology of Yellowstone.

GeoPhoto Pub. Co., c1983

Discusses the geology of Yellowstone National Park.

25 Slides

Guide

QE182.Y4 G46 1983

Glacier.

GeoPhoto Pub. Co. (1983)

Presents examples of geologic aspects of Glacier National Park including the stratigraphy of the Belt Series, stromatolites and mudcracks, glacial geomorphology, modern glaciers, the Lewis Overthrust, and Chief Mountain.

25 Slides

Guide

QE134.G57 G52 1983

The Global Brain.

BM Noetics (1985)

Explores the theory that the earth is an integrated, self-regulating living organism and asks what function humanity might have for this planetary being. Presents an inspiring and optimistic vision of humanity's future.

Video Cassette (35 min)

QH 371 R782

Global Warming: The Rising Storm.

Ambrose Video Pub., 2007

"In the last half of the 20th century, scientists began understanding that industrialization and the effects of explosive population growth were affecting the fundamental structure and composition of earth's atmosphere. Man's ever-increasing thirst for energy, quenched by the burning of fossil fuels, has dramatically increased greenhouse gases in the lower atmosphere. This 2-disc set examines and explains this phenomenon, and looks into the future where other, more deadly impacts are predicted to follow. In the first decade of the 21st century, we find ourselves at the precipice of a dangerous, rising storm"—.

disc 1. Warnings from a warming planet

disc 2. Predictions for a warmer planet

2 videodiscs (114 min.)

QC981.8.G56 G5838 2007

Global Warming: Science and Solutions.

Ambrose Video Pub., c2006

Examines the science of global warming and presents viable solutions to the problem.

disc 1. The science of global warming

disc 2. Global warming : solutions

2 videodiscs (116 min.)

QC981.8.G56 G58199 2006

Global Warming: The Signs and the Science.

PBS Home Video (2005)

This documentary profiles people who are living with the grave consequences of a changing climate, as well as the individuals, communities and scientists inventing new approaches to safeguard our children's future. Filmed across the U.S., Asia and South America, this program offers viewers a variety of ways to make a difference in their own communities.

1 videodisc (60 min.)

QC981.8.G56 G563 2005

Global Warming: What's up With the Weather?

WGBH Boston Video (2007)

What does science know? -- Forensic climatology -- How the greenhouse effect works -- The role of CO2 -- Forecasting a century of change -- America's relationship with energy -- The politics of Global warming developing world and the Kyoto Protocol -- Energy alternatives -- The politics of Global warming.

1 videodisc (ca. 114 min.)

QC981.8.G56 G585 2007

A Global Warning?

A&E Television Networks 2007

"After 650 million years of climate change, is global warming simply a naturally occurring phenomenon, or the result of human activity? Arctic ice is melting, sea levels are rising and glaciers are shrinking at alarming rates. And the Earth is getting unmistakably warmer. But is this vast potentially catastrophic climate change the result of human behavior? Or is it simply the Earth's natural cycle of warming and cooling periods that have occurred since the planet formed? An in-depth study of the science behind this controversial hot-button issue. Scientists explore the skies to examine the warming effects of the sun and dig deep into the Earth to study continental movement and the volatile activity at the planet's core. Experts speculate on how natural events including volcanic eruptions and massive meteor impacts have affected temperatures and weather systems over the planet's 600-million-year history"—Container.

1 videodisc (ca. 94 min.)

QC981.8.G56 G587 2007

A Glorious Accident.

Films for the Humanities (1994)

Scientific thinkers talk about their thoughts and questions about man's place in the cosmic puzzle.

1. Oliver Sacks
 2. Rupert Sheldrake
 3. Daniel C Dennett
 4. Stephen Toulmin
 5. Freeman Dyson
 6. Stephen J Gould
 7. Clash of Minds (pt 1-2)
 - 8 Video Cassettes (90 min each)
- Q 171 G56

Grand Canyon Flood!

KUAT-TV (1997)

Describes the man-made flood of March 1996 that released water from the Glen Canyon Dam in order to recreate the natural floods that occurred before the dam was built in 1963.

1 Video Cassette (ca. 55 min.)

TC557.A62 G623 1997

Grand Canyon section, Colorado Plateau.

GeoPhoto Publishing Co. (1983)

Discusses the geology of the Grand Canyon and of other geologic features of the Grand Canyon section of the Colorado Plateau.

39 Slides

Guide

QE86.G73 G737 1982

Greek Fire: Science.

Mystic Fire (1990)

2600 years ago the first scientific question was asked. The more closely science looked at the world, the less sense it made. Quantum mechanics introduced a principle of uncertainty that has undermined ideas about the way the world works which has dominated science since Aristotle.

Video Cassette (52 min)

Q 127 G7 S45

The Greenhouse Effect.

Films for the Humanities (1990)

Analyzes the sun's gradual brightening and the relationship between sunlight and CO₂, explains why the atmosphere of Mars has too much and Venus too little CO₂ to sustain life, theorizes about the disappearance of dinosaurs, and explains the relationship between climatic change and continental drift.

Video Cassette (26 min)

QC 981.8 G56 G68

Great Sand Dunes, Colorado.

GeoPhoto Publishing Co. (1983)

Discusses the geology of the Great Sand Dunes National Park in the San Luis Valley of the Rocky Mountains in south central Colorado.

16 Slides

Guide

QE92.G7 G74 1983

Ground Water.

GeoPhoto Pub. Co

Presents the common and extraordinary movement of ground water including fracture flow, porous flow, cavernous flow, lost rivers, emerging waterfall rivers, sinkhole development, geysers, multicolored pools, mud pots and gaseous eruptions.

36 Slides

Guide

GB1197.7 .G76 1989

Half Life: A Parable Life for the Nuclear Age.

Direct Cinema (1986)

Bravo was the code name for America's first deliverable hydrogen bomb. Examines the facts leading up to the Bravo test, the role of the US government in Marshall Islands nuclear testing, and the long term consequences of Bravo for the island inhabitants.

Video Cassette (1 hr 26 min)

GF 852 M37 H35

Harvest of Fear.

PBS Vide (2001)

Frontline and Nova explore the intensifying debate over genetically-modified (GM) food crops. Interviewing scientists, farmers, biotech and food industry representatives, government regulators, and critics of biotechnology, this two-hour report presents both sides of the debate, exploring the risks and benefits, the hopes and fears, of this new technology

1 videodisc (120 min.)

TP248.65.F66 H375 2001

[Hawking] The Cambridge Lectures: Life Works Stephen Hawking.

Dove Books/Penguin USA (1996)

1st lecture: Ideas About the Universe

2nd lecture: The Expanding Universe

3rd lecture: Lecture: Black Holes

4th lecture: Black Holes Ain't So

Black

5th lecture: The Origin and Fate of the Universe

6th Lecture: The Direction of Time

7th lecture: The Theory of Everything

4 sound cassettes (240 min.)

QB 985 H38 (1-4)

Hazardous Materials Awareness: Response to Rail Incidents.

Argonne National Laboratory (1989)

Primary concern is cask design and development. Cask standards and certification, computer analysis and computer-aided design, and cask testing are discussed.

Video Cassette (30 min)
HE 199.5 D3

Hazardous Waste Management.

Center for Urban Policy Research (1987)

Hazardous waste management in the 1980s -- The political context of hazardous waste management -- Implementing non-sitting options: political realities -- Implementing non-sitting options: industry experience -- Implementing non-sitting options: the community perspective.

9 Cassettes
TD 811.5 C46

Hazards of Normal Faulting.

GeoPhoto Publishing Co. (1983)

Case study of a 7.1 magnitude earthquake in 1983 near Chilly Buttes in the Big Lost River Valley between Challis and Mackay, Idaho. Shows what may be expected when a similar earthquake occurs near a population center.

36 Slides
Guide
QE535.2.U6 H38 1983

A Head for Figures.

Canadian Broadcasting Corp (1995)

Illustrates how abstract mathematical ideas affect us in the real world. For example: should women have mammograms annually, can we predict the ups and downs of the stock market, is it safer to fly across the country or drive to the mall?

Video Cassette (48 min)
HA 29 H422

High Plateaus Section (Zion and Bryce), Colorado Plateau.

GeoPhoto Pub. Co. (1985)

Shows retreating cliffs and plateaus; the Hurricane Fault and upturned plateau strata; the stratigraphy; cross-bedding and canyon formation; waterfalls and hanging valleys; and Miocene volcanism.

Emphasizes the Zion and Bryce canyon areas. Uses aerial and ground-level photographs.

23 Slides
Guide
QE169 .H53 1985312681

Hole in the Sky: The Ozone Layer.

Films for the Humanities (1993)

Examines the alarming depletion of the Earth's ozone layer. The hole is larger and growing more rapidly than projected. Not only the poles and the northern hemisphere have reduced protection from the sun's ultraviolet rays, but a significant drop of 10% has already been recorded at the Equator.

Video Cassette (, 52 min.)
QC 881.2 O9 H64

Homo Sapiens : The Inventor of Dreams.

Films for the Humanities & Sciences (1999)

Profiles modern mankind's forerunners through the work of a group of noted scientists. Some of the topics covered include: prehistoric caves in southern France, some of the oldest-known human tombs in Israel, "fossil words", and the genealogy of Y-chromosomes.

Video Cassette (53 min.)
GN281 .H62 1999

Hopeful Monsters.

Films for the Humanities & Sciences (1998)

Explores how research into homeotic mutations in fruit flies led to the discovery of eight control genes, which appear in fruit flies and other species. These homeotic genes help explain the Cambrian explosion and provide a new approach to medicine. In the future, man may be able to regenerate tissue, replace organs and even control genotypes.

Video Cassette (50 min.)
QH447.8.H65 H66 1998

Horticulture.

Films for the Humanities (1995)

Shows how horticulture has changed our lives: variation and multiplication of plants, gardens, landscaping, the use of computer design, greenhouses, and miniature ecosystems.

Video Cassette (48 min)
SB 318 H67

Hot Enough for You?

Coronet (1989)

Was the searing summer of '88 a taste of things to come? Nova looks at the greenhouse effect: the distressing theory that human-produced gases are altering the atmosphere to create a hothouse climate. Scientists reveal the sources of greenhouse gases and point to a variety of ways to reverse this dangerous warming trend.

Video Cassette (1 hr)
QC 912.3 H67

How Change Happens: Breaking the "Teach as you were taught" Cycle in Science and Math.

Films for the Humanities & Sciences (2001)

Showcases innovative teaching techniques as performed by science and math professors at Hampshire College, the University of Massachusetts, and Springfield Technical Community College. In seminars and full-blown lectures, these instructors have succeeded in increasing their students' engagement with the subject matter by applying active learning, cooperative group work, and alternative test-taking techniques.

Video Cassette (25 min.)
Q181 .H86 2001

How Good is Soviet Science?

Coronet (1989)

Looks at the bureaucratic system that has impeded Soviet scientific and technological progress for decades. Begins with the Russian revolution and Lenin's proposal to train a new generation of scientists. Examines Stalin's cultural revolution and looks at the dominance of idealism over scientific truth. Finally, looks at the development of Soviet science during the contemporary period and explores the organization of Soviet science today.

Video Cassette (58 min)
Q 180 S68 H69

How Scientists Know about Human Evolution.

University of California

Explains evolutionary theory by showing how scientists study human fossils and use them to draw conclusions about biological and cultural evolution. Emphasizes the decision-making processes of scientists and leads viewers through the steps taken to interpret data and make conclusions about a fossil's place in human evolution.

Video Cassette (19 min)
GN 281 H64

How Scientists Know about Punctuated Equilibria.

University of California Extension Center for Media

Explores the development of a new theory that explains how evolution takes place and emphasizes that how quickly evolution happens is still debated. Disputes Darwin's idea of evolutionary gradualism. Describes how fossil evidence indicates that new species usually evolve quickly from ancestral ones.

Video Cassette (16 min)
QE 821.2 E85 H68

How the Earth Was Made.

A&E Television Networks (2007)

This documentary describes planet earth's four and a half billion year history, describing how we have come to know what we know about our planet. The findings of key researchers are explained, along with physical evidence of the huge forces which continue to shape our world.

1 videodisc (ca. 100 min.)
QE500.5 .H68 2007

How to Create a Junk Food.

Coronet (1988)

A behind-the-scenes look at the extensive research development, and enormous expenditures that go into better tasting, more salable fast foods. Explores such techniques as "chew" profiling, video scans, synthetic chemistry, and high-tech mass production.

Video Cassette (58 min)
HD 9219 A2 H68

Human Cloning: An Ethical Dilemma.

Pyramid Media (2001)

Research scientists, physicians, theologians and attorneys discuss the ethical and moral issues involved in the effort towards cloning human beings

1 Video Cassette (33 min.)

QH442.2 .H84 2001

The Human Mind: From Neurons to Knowledge.

Films for the Humanities & Sciences (2004)

This three-part series explores the science behind the workings of the human mind. Original BBCW broadcast title: The human mind--and how to make the most of it.

[pt. 1.] Get smart: learning to learn

[pt. 2.] Personality: all about me

[pt. 3.] Making friends: the science of social interaction

3 videodiscs (approx. 60 min. each)

QP360 .H87 2004 pts 1-3

Hurricane!

WGBH Educational Foundation (1989)

This program traces the path of Hurricane Gilbert, which struck the Caribbean and the Gulf of Mexico from Sept. 11 to 16, 1988. It also presents the work of research scientists at the Hurricane Research Division and officials at the National Hurricane Center (NHC) in Miami, Florida, who work to predict the path and intensity of a hurricane in time to warn coastal populations in its path. Also includes first-hand accounts of Hurricane Camille, the most devastating storm ever to strike the United States.

1 Video Cassette (58 min.)

QC945 .H86 1989

Hurricanes: Deadly Wind, Deadly Rain.

A&E Television Network (2006)

Documents some of the deadliest hurricanes to hit America prior to 1998. Also discusses the strides scientists have made in understanding and predicting these storms.

1 videodisc (ca. 50 min.)

QC945 .H893 2006

Hydrogen Hopes.

PBS Home Video (2005)

Alan Alda meets with hydrogen enthusiasts working toward a future when hydrogen can be made in unlimited quantities from renewable, non-polluting resources.

1 videodisc (ca. 30 min.)

TP359.H8 H885 2005

Hydrogen: Key to the Sustainable Energy Revolution.

The Video Project (1996)

An introduction to the major advancements in the use of hydrogen as a non-polluting, practical, inexhaustible, and renewable energy source.

Video Cassette (56 min)

TP 359 H8 E44

Hydrothermal Activity of Yellowstone.

GeoPhoto Publishing Co. (1981)

Discusses geothermal activity in Yellowstone National Park.

20 Slides

Guide

QE182.Y4 H83 1981

In the Path of a Killer Volcano.

WGBH Video (1993)

This program waits with a group of geologists as they monitor the signs from Mount Pinatubo and try to determine exactly when it will erupt. Showing previously unaired footage, it follows the days immediately preceding the June 1991 eruption, the eruption itself, and the aftermath. The program examines the methods volcanologists use to make their predictions, their accuracy, and the repercussions when predictions are wrong.

Video Cassette (60 min)

QE 523 P56 I52

Insect Clues.

Films for the Humanities & Sciences, (2004)

By analyzing the life cycle of maggots found in the body of Sandra Cwik, a forensic entomologist establishes the time of death and ties her murder to suspect Ronald Porter, who was convicted on the basis of this, along with other forensic and circumstantial evidence.

1 videodisc (24 min.)

HV8079.H6 C43 2004

Insects: The Little Things that Run the World.

Unapix Consumer Products (1995)

A comprehensive look at the life, habits and environments of the adaptive and complex life forms that make up over 80% of all animal life on Earth, insects.

Video Cassette (58 min)

QL 463 I743

Introduction to Fluid Inclusions.

Michigan Technological University (1983)

Illustrates the basic concepts of fluid inclusions using down-the-tube color TV photomicrography, lecture materials, and color diagrams.

Video Cassette (40 min)

QE 364.2 F47 I57

Inventing the Future with Robert Lucky.

PBS (1990)

Talks about the world of "virtual space", America's competition with Japan, how society's needs determine the direction of technology, and how computers and humans will learn to coexist.

Video Cassette (1 hr)

QA 76.9 H85 I5987

Ionizing Radiation.

Teaching Films Inc (198?)

1. Scientific Background (26 min)

QC 475 S38

2. Units Used in Radiation Protection (53 min) QC 795.42 U55

3. Principle Types of Hazard (18 min) QC 475 P75

4. Control of the External Radiation Hazard (21 min) TK 9152 P76

5. Measuring External Hazard (61 min) QC 786 M43

5 Video Cassettes

A Journey in the History of Water.

University of Bergen, Centre for Development Studies, c2001

Tells the dramatic story of how the struggle for fresh water has shaped human society to a remarkable extent, bringing the viewer to about 20 countries all over the world and showing in fascinating variety how people have coped with what is societies' lifeblood – water.

1 videodisc (180 min.)

TD345 .J68 2001

The Joy of Science.

Teaching Company, c2001

English novelist and scientist C. P.

Snow classed certain scientific ideas with the works of Shakespeare as things every educated person should know. The lectures in this series explore the fundamental discoveries and principles of the physical and biological sciences--physics, genetics, biology, astronomy, chemistry, meteorology, thermodynamics, and more--providing a comprehensive and integrated introduction to all of science. The Joy of Science, through enhancing an understanding of the physical world, offers a source of endless wonder and intellectual joy.

pt. 1. disc 1. Lecture one The nature of science ; lecture two The scientific method ; Lecture three The ordered universe ; Lecture four Celestial and terrestrial mechanics ; Lecture five Newton's laws of motion ; Lecture six Universal gravitation -- disc 2. Lecture seven The nature of energy ; Lecture eight The first law of thermodynamics ; Lecture nine The second law of thermodynamics ; Lecture ten Entropy ; Lecture eleven Magnetism and static electricity ; Lecture twelve Electricity.

pt. 2. disc 3. Lecture thirteen Electromagnetism ; Lecture fourteen The electromagnetic spectrum, pt. I ; Lecture fifteen The electromagnetic spectrum, pt. II ; Lecture sixteen Relativity ; Lecture seventeen Atoms ; Lecture eighteen The Bohr atom -- disc 4. Lecture nineteen The quantum world ; Lecture twenty The periodic table of the elements ; Lecture twenty one Introduction to chemistry ; Lecture twenty two The chemistry of carbon ; Lecture twenty three States of matter and changes of state ; Lecture twenty four Phase transformations and chemical reactions.

pt. 3. disc 5. Lecture twenty five Properties of materials ; Lecture twenty six Semiconductors and modern microelectronics ; Lecture twenty seven Isotopes and radioactivity ; Lecture twenty eight Nuclear fission and fusion reactions ; Lecture twenty nine Astronomy ; Lecture thirty The life cycle of stars -- disc 6. Lecture thirty one Edwin Hubble and the discovery of galaxies ; Lecture thirty two The big bang ; Lecture thirty three The ultimate structure of matter ; Lecture thirty four The nebular hypothesis ; Lecture thirty five The solar

The Joy of Science. (cont.)

system ; Lecture thirty six The Earth as a planet.

pt. 4. disc 7. Lecture thirty seven The dynamic earth ; Lecture thirty eight The plate-tectonics revolution ; Lecture thirty nine Earthquakes, volcanoes, & plate motions today ; Lecture forty Earth cycles: Water ; Lecture forty one The atmospheric cycle ; Lecture forty two The rock cycle -- disc 8. Lecture lecture forty three What is life? ; Lecture forty four Strategies of life ; Lecture forty five Life's molecular building blocks ; Lecture forty six Proteins ; Lecture forty seven Cells: The chemical factories of life ; Lecture forty eight Gregor Mendel, founder of genetics

pt. 5. disc 9. Lecture forty nine The discovery of DNA ; Lecture fifty The genetic code ; Lecture fifty one Reading the genetic code ; Lecture fifty two Genetic engineering ; Lecture fifty three Cancer and other genetic diseases ; Lecture fifty four The chemical evolution of life -- disc 10. Lecture fifty five Biological evolution: A unifying theme of biology ; Lecture fifty six The fact of evolution: the fossil record ; Lecture fifty seven Charles Darwin and the theory of natural selection ; Lecture fifty eight Ecosystems and the law of unintended

The Joy of Science cont.

consequences ; Lecture fifty nine The ozone hole, acid rain, and the greenhouse effect ; Lecture sixty Science: the endless frontier
10 videodiscs (1800 min.) + 1 course
guidebook 331pgs

Q171 .H39 2001 pt.1-5

Judgment Day: Intelligent Design on Trial.

WGBH Educational Foundation, 2008

"Captures the turmoil that tore apart the community of Dover, Pennsylvania, in a landmark battle over the teaching of evolution in public schools. In 2004, the Dover school board ordered science teachers to read a statement to their high school biology students about an alternative to Darwin's theory of evolution called intelligent design. This idea states that life is too complex to have evolved naturally and so must have been designed by an intelligent agent. The teachers refused to comply, and both parents and teachers filed a lawsuit in federal court accusing the school board of violating the constitutional separation of church and state"—Container
1 videodisc (ca. 112 min.)
QH366.2 .J83 2008

Kansas vs Darwin.

New Day Films, c2008

Explores the controversy over the teaching of evolution and intelligent design in Kansas public schools, using footage from the hearings before the Board of Education and interviews with people on both sides of the issue.

1 videodisc (82 min.)
KF4208.5.S34 K36 2008

Kilauea Eruption, 1983.

GeoPhoto Publishing Co

Shows the eruption of the caldera Kilauea in 1983 in Hawaii.
25 Slides
Guide
QE523.K5 K54 1991

Kilauea Iki, 1959.

GeoPhoto Publishing Co.

Shows the eruption of the caldera Kilauea Iki that is subsidiary to Kilauea from 1959-1960 in Hawaii.
6 Slides
Guide
QE523.K5 K542 1996

Killer Quake!

WGBH 91994)

On January 17, 1994, an unknown fault convulsed beneath Northridge as the most destructive earthquake in modern Los Angeles history devastated the city. NOVA takes viewers to the top of the Santa Susanna Mountains, in search of clues to where nature will strike next.

Video Cassette (1 hr)

QE 538.8 K54

Kilowatt Ours: A Plan to Re-energize America.

KilowattOurs.org, c2008

Documents the devastating consequences of the predominantly coal and nuclear powered economy in the southeastern United States. Solar panels, energy efficient lighting, and geothermal heating are a few of the solutions to reduce energy costs that are demonstrated by home owners and individuals representing businesses and government agencies.

1 videodisc (56 min.)

TD195.E4 K55 2008

Kingdom of the Seahorse.

WGBH Boston Video (1997)

Journeys with biologist Amanda Vincent into the complex and beautiful world of the seahorse, from an underwater enclave where their mating dance is recorded on camera for the first time to the apothecary shops of the Far East where seahorses are sold as a source of sexual prowess. In the Philippines, Vincent attempts to come up with a conservation plan that will support the seahorse fishermen and still protect the seahorse population.

Video Cassette (1 hr)

QL 638 S9 K55

Kinsey.

Paramount Home Entertainment (2005)

"Kinsey was a scientist whose repressed childhood, personal struggles and obsessive nature would propel him to conduct the first full-scale study of sexual behavior, and break through America's silence on human sexuality"—Container.

1 videodisc (90 min.)

HQ18.32.K56 K566 2005

Lassen.

GeoPhoto Pub. Co. (1985)

Views of volcanic activity in the area of Lassen Peak, California.

26 Slides

Guide

QE523.L37 L37 1985

The Last Epidemic.

Video Project (1981)

Conveys the consequences of one or more nuclear weapons on a civilian population. Describes damage to the environment and the planet.

Video Cassette (30 min)

RA 648.3 L37

The Last Neandertal [sic].

Films for the Humanities & Sciences (2007)

"Among scientists, Africa is the undisputed birthplace of humanity. But anthropologists are split into two camps over other questions. How many waves of Homo sapiens migrated out of Africa? Did other highly developed hominid species--such as Homo neanderthalensis--make the same journey? And to what extent did these populations mingle and compete with each other? This program featuring prominent voices in the ongoing debate, presents differing viewpoints about the age and development of the Neandertal--and about how the vanished species figures in the story of modern humanity's rise"—Container.

1 videodisc (52 min.)

GN285 .L37 2007

Lead for Life.

Films for the Humanities & Sciences (2006)

Presents the history of leaded gasoline and its impact on human health and intelligence.

1 videodisc (30 min.)

GE140 .L43 2006

Leadership and the New Science.

CRM Films (1993)

Explores a simpler way to manage complex organizations. Suggests a revolutionary new approach to breaking out of limited perspectives and seeing chaos as a natural force for creating order.

Video Cassette (25 min.)

Q158.5 L43

Learning Science Through Inquiry.

Annenberg/CPB (2000)

Eight one-hour workshops which study why inquiry is a powerful approach to teaching and learning science. Programs feature classroom case studies and discussions.

8 Videocassettes (ca. 480 min.)

1 guide (40, 108 p.)

LB1585 .L43 2000 workshop 1 – 8

LB1585 .L43 2000 guide

Learning that Works.

WGBH Boston Video (2000)

Looks at the connections between science taught in high school and its applications at work and in the community. Shows students working with teachers and mentors inside and outside school.

3 Video Cassettes (2 hrs)

Guide (95 p.)

Q181 .L43 2000

Legends of Easter Island.

Coronet Films & Video (1989)

Nova investigates Easter Island's existing legends, artifacts, and other remains, including a thousand giant human-like monoliths in an attempt to explain the presence of the island's current culture.

Video Cassette (58 min)

F 3169 L44

Life After Oil.

Ambrose Video Publishing, c2007

This program illustrates ways we can solve our dependence on fossil fuels through the use of alternative energy sources including wind power, fuel cells, hydrogen fuel, ethanol, biomass and solar power.

1 videodisc (30 min.)

TJ808 .L54 2007

Life in Death Valley.

New York : Thirteen (2006)

Discusses how animals beat

the extreme heat in Death Valley, ultramarathoners who run through Death Valley each July, the geology of Death Valley, and how it is good for astronomy there because there is almost no light pollution. Also discusses the floods caused by an unusual amount of rain in 2005, the huge bloom of wild flowers that followed that wet winter, and the vast aquifer under Death Valley that supports endangered species such as the Devils Hole pupfish.

1 videodisc (ca. 60 min.)

QL116 .L53 2006

Lifelines.

Films for the Humanities & Sciences (1999)

Discusses three key scientists and their contributions to the understanding of evolutionary genetics: Darwin, Mendel and Miescher. The results of their work combine natural science, botany, and chemistry to form a comprehensive explanation of how species evolve.

Video Cassette (1/2 in, 30 min)

QH 375 L57

Light, Darkness and Colours.

First Run/Icarus Films (1998)

Using time-lapse cinematography, and duplicating Goethe's and Newton's experiments on camera, the film explores the natural laws and phenomena surrounding human visual perception.

Video Cassette (52 min.)

QP481 .L53 1998

Lightning!

WGBH Educational Foundation (1995)

Takes you on a high voltage trip into the most electrically charged weather in the world, culminating in a dazzling lightning show set to music that rivals the most extraordinary fireworks display

1 Videocassette (ca. 60 min.)

QC966 .L533 – Videocassette

Limitations of Flood Control Facilities.

GeoPhoto Publishing Co. (1986)

Discusses floods in northern California in 1986 along the Russian River in the Coast Ranges and along the Feather, Yuba, and American Rivers in the Sierra Nevada Mountains and the Great Valley, and also discusses limitations of flood control facilities.

36 slides

Guide

GB1399.4.C2 L54 1986

Linus Pauling" A Century of Science and Life.

Carolina Biological Supply Co (1987)

Dr Pauling discusses his early childhood and presents the people who most influenced his life. Covers his accomplishments and theories including his work on the chemical bond, the structure of protein, and the use of large doses of vitamin C.

Video Cassette (28 min)

QD 22 P35 L55

Little Creatures Who Run the World.

WGBH (1995)

Unselfishness is the rule. Everything ants do is for their colony's good. This film explores the world of ant colonies.

Video Cassette (60 min)

QL 568 F7 L583

The Living Weapon.

WGBH Educational Foundation (2007)

Soon after the United States entered World War II, President Roosevelt received information that Germany and Japan were developing biological weapons. In response, the U.S. and its allies rushed to develop their own germ warfare program.

1 videodisc (ca. 60 min.)

UG447.8 .L58 2007

Longitude

A&E Television Networks (2000)

Interweaves two stories: John Harrison's forty-year obsession with building his perfect timekeeper, known today as the chronometer; and naval officer Rupert Gould who, two hundred years later, stumbles across Harrison's forgotten chronometers and devotes himself to restoring Harrison's long-neglected mechanical masterpieces.

2 videodiscs (ca. 200 min.)

QB225 .L66 2000 pt.1 -2

Lost at Sea: The Search for Longitude.

WGBH Boston Video (1998)

"Before global positioning systems, modern map making -- even before America was America -- the concept of longitude was just a dream. Without its guidance, navigation in the 1700s was both unpredictable and deadly," until a country carpenter named John Harrison solved the mystery—Container.

1 videocassette (60 min.)

QB225 .L67 1998

Machine Dreams.

First Run Icarus Films (1998)

Looks at the irrational, emotional roots of man's relationship with technology, exploring the way machines embody our most fundamental fears and hopes,

Video Cassette (1 hr 27 min)

T 14.5 M3713

Made Over in America.

First Run/Icarus Films (2007)

"A thought-provoking picture of how the desire for a better self-image operates within consumer culture, and how this desire is fed by [the] media, the medical makeover industry and society at large" – Container.

1 videodisc (65 min.)

P96.I34 M33 2007

Magic materials.

Films for the Humanities & Sciences
(2006)

"Laboratory-created substances figure prominently into our lives. Examines synthetic materials research that is leading to breakthroughs in many creative and technical fields. Demonstrating the tremendous influence of silicone and super-strength polymers on a wide range of occupations--including architecture, sculpture, textile production, car design, cosmetics, precious metal mining, and recreation--the video uses high-tech laboratory footage and eye-catching animation to depict unprecedented product development"—Container.

1 videodisc (30 min.)
TP1088 .M34 2006

Man Immortal.

Films for the Humanities & Sciences
(1999)

Experts in the areas of fibroblast growth factor therapy, nutrition, genetics, aerobic metabolism, and cancer research discuss the implications of their findings on the aging process.

Video Cassette (53 min.)
QP 85 M36

The Man Who Loved Numbers.

Coronet Film & Video (1998)

Reviews Srinivasa Ramanujan's accomplishments in the field of mathematics and the current consequences of his work. Ramanujan left behind some of the most remarkable formulas and theorems in the history of pure mathematics. The origins of his mathematical insight remain a mystery.

Video Cassette (57 min)
QA 3 M3

Mass Wasting.

GeoPhoto Publishing Co.

Examines both slow and rapid mass wasting processes including soil creep, frost heave, polygonal ground, rock falls, rock slides, rock avalanches, talus slopes, mudflows, earth flows, slumps, landslides, lahars, river damming, snow avalanches, and impact craters.

36 Slides
Guide
QE598.2 .M37 1993

The Mathematical Mystery Tour.

Coronet Film & Video (1985)

Explores the world of pure mathematics and some of the classical problems that elude the solution or proof, even after several hundred years. Fermat's Last Theorem and The Goldbach Conjecture are discussed. Mathematicians explain that new theorems are continually reshaping mathematics. Difference of formalists and platonists is investigated. The impact of the computer is briefly explained.

Video Cassette (57 min)
QA 8.4 M37

Mathematically Motivated Designs.

Mathematical Association of America
(1994)

Lecture given by mathematician Howard Eves regarding designs with practical applications that have arisen from geometric drawings and mathematical puzzle-solving.

Video Cassette (61 min)
QA 95 M3678

Mathematics.

Films for the Humanities (1995)

Looks at some of the theories and their applications: The probability theory, Euclidean geometry, and the theory of chaos.

Video Cassette (23 min)
QA 8.4 M39

Mathematics and Nature.

Films for the Humanities (1995)

Explains a new science of natural forms that aims to understand the order of nature. Attempts to describe the order of nature mathematically have led to fractal geometry.

Video Cassette (23 min)
QA 614.86 M37

The Mathematics of Architecture Building by Numbers.

Films for the Humanities & Sciences
(1997)

Demonstrates the application of mathematics to architectural designs, from Palladio's harmoniously proportionate villas to the chaotic architecture of Parc de la Villette in Paris, designed by architect Bernard Tschumi.

Video Cassette (25 min)
NA 2750 M37

Mechanical Engineering Review Course: Fluids and Thermodynamics Series.

Professional Pub (1990)
15 Cassettes
Booklet (41 p)
TJ 159 L558

Mechanical Engineering Review Course: Mechanics and Design Series.

15 Cassettes
Booklet (41 p)
TJ 159 L56

The Mechanical Universe.

Annenberg/CPB (1985)

26 programs based on a course developed at Cal-Tech by Professor David Goodstein.

- 1 Introduction to the Mechanical Universe
- 2-4 The Law of Falling Bodies
Derivatives
Inertia
- 5-7 Vectors
Newton's Laws
Integration
- 8-10 The Apple and the Moon
Moving in Circles
The Fundamental Forces
- 11-13 Gravity - Electricity - Magnetism
The Millikan Experiment
Conservation of Energy
- 14-16 Potential Energy
Conservation of Momentum
Harmonic Motion
- 17-19 Resonance
Waves
Angular Momentum
- 20-22 Torques & Gyroscopes
Kepler's Three Laws
The Kepler Problem
- 23-25 Energy and Eccentricity
Navigation in Space
From Kepler to Einstein
- 26 Harmony of the Spheres
10 Video Cassettes (30 min per program)
QC 127.3 M42 no.1-26

The Mechanical Universe & Beyond.

PMI/Films Incorporated, c1986

- 27-28 The Mechanical Universe and Beyond
 - Static Electricity
 - 29-30 Electric Field
 - Potential and Capacitance
 - 31-32 Voltage, Energy and Force
 - Electric Battery
 - 33-34 Electric Circuits
 - Magnetism
 - 35-36 Magnetic Field
 - Vector Fields & Hydrodynamics
 - 37-38 Electromagnetic Induction
 - Alternating Current
 - 39-40 Maxwell's Equations
 - Optics
 - 41-42 Michelson-Morley Experiment
 - Lorentz Transformation
 - 43-44 Velocity and Time
 - 45-46 Temperature & Gas Laws
 - Engine of Nature
 - 47-48 Entropy
 - Low Temperatures
 - 49-50 The Atom
 - Particles and Waves
 - 51-52 From Atoms to Quarks
 - Quantum Mechanical Universe
- 13 Video Cassettes 1/2", 30 min per program; 2 programs per tape)
QC 127.3 M42 pt 27-52

Mere chemistry?

Film for the Humanities & Sciences
(2006)

"Students new to chemistry might think it's all about beakers and test tubes. You can use this title in the Molecular Universe series to show them what chemistry is really about -- the foundation of life, and the innovations that make life better. Outlining Earth's early development and the creation of the first organic substances, the DVD focuses on what humanity has been able to accomplish, and what challenges the future holds, in the field of chemistry. Resins, fibers, and plastics that have revolutionized human activity are showcased, especially in the world of sports, with its radically engineered lightweight equipment, and the stunning example of NASA's solar-powered Helios aircraft"—Container.

1 videodisc (30 min.)
QD37 .M47 2006

Metamorphic Rocks

GeoPhoto Pub. Co.

Presents aspects of metamorphism including contact metamorphism, relic bedding, mineralogy, and foliation of state, phyllite, schist, gneiss, and migmatite.

36 Slides
Guide
QE475.A2 M4746 1993

Micro-Parasites: Invisible Death.

Films for the Humanities & Sciences
(2004)

"Stronger and more mobile than ever, humankind's oldest enemies--lethal micro-parasites--may be threatening the survival of the human race. Some were believed to have been eradicated from the industrialized world, only to reappear in drug-resistant strains. Others, previously known only to remote regions of the planet, are turning up anywhere an infected traveler can fly to. Examines recent outbreaks of parasitic or parasite-borne illnesses, including SARS, West Nile virus, Ebola, tuberculosis, Lassa virus, and bubonic plague"—Container.

1 videodisc (50 min.)
RC119 .M53 2004

Mineral Microscopy.

MTU (1982)

4. Light in Anisotropic Crystals
 5. Uniaxial Crystals
 6. Uniaxial Interference Figures
 8. Biaxial Crystal Optics
 9. Biaxial Interference Figures
 10. Optic Orientation in Biaxial Minerals
- 6 Video Cassettes
QE 369 O6 M55 tapes 4-6, 8-10

Minerals and Rocks.

PBS Video (1985)

Discusses the importance of minerals and rocks in every day life.

Video Cassette (29 min)
QE 365 M55

Miracle planet

Ambrose Video Publishing, (2005)

"Miracle planet is a five-part series that recounts the ... story of Earth's mysterious evolution. Narrated by Christopher Plummer, it reveals the surprising role that sheer chance has played in the development of life. Over its more than 4-billion-year history, Earth has been home to repeated violent climactic changes, which have caused mass extinctions. And yet, life has survived. In fact, these same catastrophes that devastated life on earth also helped bring about its evolution from the simplest microbes to the complexity and diversity that is found on the planet today"—Container.

episode 1. The violent past

episode 2. Snowball earth

episode 3. New frontiers

episode 4. Extinction & rebirth

episode 5. Survival of the fittest

QE501 .M57 2005 1-5

The Missing Link.

WGBH Boston Video, c2002

Discusses the hunt for the missing link between fish and four-legged animals in the evolution of mammals.

Video Cassette (1 hr.)

QL708.5 .M57 2002

The Mississippi Delta: Model for Subsurface Exploration.

AAPG (1985)

Explains components of a modern river delta system. Animation sequences plus aerial photography show dramatic pieces of Mississippi delta landscape that have undergone rapid geologic change.

Video Cassette (32 min)

GB 596 M5 M58

The Missoula Flood.

GeoPhoto Publishing Co

Describes the geological formations in Montana, Idaho and Eastern Washington created by the Missoula Flood during the Great Ice Age.

36 Slides

Guide

GB1399.4.W2 M57 1990

Modern Marvels: The Space Shuttle.

A&E Television Networks (2004)

The development of the Shuttle began in the 1950's and was triumphantly launched in 1981. This program examines the successes and failures of the missions and looks at the next generation Space Shuttle, the futuristic X-33.

1 videodisc (ca. 50 min.)

TL795.5 .M63 2004

Modular Elliptic Curves and Fermat's Last Theorem.

American Mathematical Society (1993)

Ribet gives two lectures about his proof of the Taniyama Conjection, one of the crucial links to Fermat's last theorem.

These lectures describe the main ingredients in Wiles' results.

Video Cassette (2 hr 20 min)

QA 244 M63

Monitored Retrievable Storage of Nuclear Fuel.

Girard Video (1991)

Explains why monitored retrievable storage is needed, what it is, and how it will operate. Also discusses transportation of spent reactor fuels.

Video Cassette (15 min)

Booklet

TD 899 A8 M65

Monkey Trial.

PBS Home Video (2002)

Discusses the trial of biology teacher John Scopes, who was arrested for teaching evolution in defiance of Tennessee state law in 1925.

1 Video Cassette (90 min.)

KF224.S3 M65 2002

Mono Lake and Craters.

GeoPhoto Publishing Co. (1985)

Discusses the geology of Mono Lake and the Mono Craters in Mono Basin in California.

15 Slides

Guide

QE90.M66 M65 1985

Monsters of the Deep.

MPI Home Video (1996)

Visits the Florida residents who survived 1992's hurricane Andrew, the United States' costliest natural disaster; examines the causes of hurricanes; and delves into the phenomenon known as "El Niño," a current in the Pacific Ocean with far-reaching effects on weather.

Video Cassette (57 min)

QC944 .M65

More Engineering Disasters.

New Video Group (1998)

Video footage and photos capture many of these engineering disasters as they happened (or immediately after), and engineers detail the changes that these accidents have spurred

1 Video Cassette (57 min.)

TA495 .M67 1998

Mother Earth: A Chemical Laboratory.

Films for the Humanities & Sciences (2006)

"This program shows how research into the chemical makeup of geological and biological materials drives the innovation of energy systems, building methods, and transportation technology--and how these improvements can save lives and reduce stress on the environment. Hydrogen fuel cells, resin coatings for giant wind turbines, wax-plaster mixtures for energy-efficient home--the video features these and many other advances, suggesting a future in which humanity can both profit from and protect the Earth"—Container.

1 videodisc (29 min.)

QD37 .M67 2006

Mount Saint Helens Eruption.

GeoPhoto Publishing Co. (1980)

Shows damage caused by the May 18, 1980, eruption of Mount Saint Helens in the Cascade Range in Washington State.

72 slides

Guide

QE523.S23 M67 1980

Mysteries of Mankind.

National Geographic (1988)

Combining their expertise and skills, scientists use modern technology to search for the elusive early ancestors of modern humans.

Video Cassette (1 hr)

GN 281 M89

Mysteries Underground.

National Geographic Society (1992)

Chronicles the exploration of Lechuguilla Cave, located five miles from Carlsbad Cavern, NM, discovered in 1986, Lechuguilla is America's deepest cave.

Video Cassette (56 min)

GB 606 L42 M87

The Mysterious Human Heart.

Ambrose Video, c2007

Each of the three programs that make up "The mysterious human heart" focuses on a different aspect of what we thought we knew, what we know now, and what we're on the verge of learning about the heart. This material is presented through the real-life dramas of people who suddenly learn that a normal, functioning heart is not something that can be taken for granted. In episode 1, we examine the heart as a muscle - pumping more than 100,000 times a day, pushing approximately five quarts of blood on an endless path delivering oxygen to every cell in the human body. This hour tells the story of the normal heart thought the histories of three people with end-stage heart failure, where a pump may be a temporary remedy, but in the long term, a transplant is often a necessity. In episode 2, a look at the physiological electrical mechanism that keep a heart beating regularly and efficiently and what happens when this most essential rhythm of life goes awry. In episode 3, the focus is on atherosclerosis, the silent blockage of the coronary arteries, which can trigger devastating and sometimes fatal heart attacks.

3 videodiscs (180 min.)

QP112 .M97 2007

Mysterious Poison: The History of PCBs.

Films for the Humanities & Sciences
(2006)

Analyzes cases in which 20th-century progress resulted in consequences for the 21st-century.

1 videodisc (28 min.)

GE140 .L38 2006

Mystery of the Megaflood

WGBH Boston Video (2006)

With the help of animation, Nova takes viewers back to the Ice Age to reveal what happened when an enormous ice dam broke in present-day Montana, unleashing a titanic flood called the Missoula Flood that swept herds of woolly mammoth and everything else into oblivion and covered the Northwest with 1,000 feet-deep floodwaters called Lake Missoula.

1 videodisc (ca. 56 min.)

GB1399.4.W2 M87 2006

Mystery of the Senses.

WGBH Educational Foundation, (2007)

Discusses each of the five senses, hearing, smell, taste, touch and vision, through Diane Ackerman's perspective

[Pt. 1.] Hearing

[pt. 2.] Smell

[pt. 3.] Taste

[pt. 4.] Touch

[pt. 5.] Vision

5 videodiscs (55 min. each)

BF233 .M87 2007 1-5

Natural Connections.

Bullfrog Films (1999)

Uses interviews with scientists, photography, graphics, and original music to introduce the basic concepts of biodiversity, underline the importance of maintaining biodiversity, explore how nature and human nature are intertwined and how everyday decisions affect biodiversity. Takes a close-up look at salmon, rainforests, and marine ecosystems as examples.

1. Introduction to biodiversity (15 min.)

2. The significance of salmon (12 min.)

3. Keystone species (10 min.)

4. Forests, biodiversity and you
(10 min.)

5. Biodiversity vs. extinction (12 min.)

5 Video Cassettes (59 min total)

QH541.15.B56 N37 1999

Navajo and Datil Sections, Colorado Plateau.

GeoPhoto Publishing Co. (1987)

Discusses the geology of the Navajo and Datil sections of the Colorado Plateau.

36 Slides

Guide

QE79 .N38 1987

Neanderthals on Trial.

WGBH Boston Video (2002)

Were Neanderthals human like us, or were they sub-human brutes? Since the discovery of the first Neanderthal skeleton in 1856, scientists have battled over exactly how we're related to these prehistoric cave-dwellers. There's plenty of new evidence, including DNA analysis, but nothing seems to settle the case. Neanderthals on trial takes a look at the debate, showing how science works, and how investigators sometimes fool themselves into seeing what they want to see.

Video Cassette (1 hr)

GN285 .N46 2002

Nevada Water Recycling.

Water Education Foundation (2002)

Discusses the uses of recycled water, which is water recovered from wastewater, then highly treated to exact purification standards, in Nevada.

1 Video Cassette (18 min., 50 sec.)

TD429 .N48 2002

Nevada's Geothermal Resources.

Reno : Division of Earth Sciences (1986)

Video Cassette (27 min)

GB1199.7.N4 N48

[Newton] Sir Isaac Newton: The Gravity of Genius.

A&E Home Video; New Video Group

Explores the life of Sir Isaac Newton, who invented calculus, investigated motion, gravity, and light, and who was the father of modern science. Includes an examination of his writings and interviews with scholars and scientists.

Video Cassette (50 min.)

QC16.N7 S57 1996

Newton: A Tale of Two Isaacs.

Devine Entertainment (1999)

A dramatization of the life of physicist Sir Isaac Newton as told by a young boy named after him. Thus the tale of the two Isaacs is interwoven throughout the story.

Video Cassette (52 min.)

QC16.N7 N46 1999

Newton's Dark Secrets.

WGBH Boston Video (2005)

Newly discovered manuscripts reveal an Isaac Newton obsessed with religion, the occult, and alchemy.

1 videodisc (56 min.)

QC16.N7 N478 2005

The Next Big Thing.

Kikim Media (2001)

Why aren't we using fuel cells today? Looks at the history of other promising technologies to answer that question.

"Entrepreneur Firoz Rasul, who wants to make the fuel cell as central to our lives as the light bulb, is betting that he can learn from inventors of the past."--Container

1 videodisc (56 min.)

TK45. P662 2001

The 1902 Eruption of Mt Pelee.

Michigan Technological University

Explains the process of the volcanic eruption which occurred at Mt Pelee in the spring of 1902. Recreates the events which led to the deaths of the 28,000 residents of Saint Pierre, Martinique.

Video Cassette (1 hr 8 min)

QE 523 P3 N55

1989 San Andreas Earthquake.

GeoPhoto Pub. Co. (1989)

Discusses San Andreas Fault and damage caused by a 7.1 magnitude earthquake that occurred on October 17, 1989, with its epicenter at Loma Prieta near Santa Cruz, California.

37 Slides

Guide

QE535.2.U6 A2 1989

The Nuclear Comeback.

First Run/Icarus Films, c2007

In a world living in fear of climate change, the nuclear industry is proposing itself as a solution. This documentary goes on a worldwide tour of the industry, including the control room of the Chernobyl power plant. Includes interviews with governmental and industry proponents of nuclear power, as well as those working against it.

1 videodisc (58 min)

TK9152 .N83 2007

Nuclear Nightmare Next Door.

Films for the Humanities (1990)

Reports on the controversy surrounding the use and disposal of radioactive materials and the health effects on workers and nearby residents. Investigates the Savannah River plant and a nuclear bomb factory in Frenald, Ohio.

Video Cassette (52 min)

TK 1078 N78

Nuclear Testing Film Series.

UNLV (1992)

An overview of the operations at the Nevada Test Site, the global health and environmental impact of testing, the plight of atomic veterans and "down winder", and the debate surrounding a comprehensive test ban.

Video Cassette (1 hr 22 min)

U 264 N798 tape 1-2

Oceanography.

Films for the Humanities (1995)

Begins with a voyage into the world of phytoplankton. Discusses the tides. Looks at aquaculture.

Video Cassette (23 min)

GC 11.2 O218

On Becoming a Scientist.

Pyramid (1995)

The video provides a look at the work, lives, and motivations of three students and a lab manager who are pursuing careers in science. During the course of these interviews, the video helps dispel some of the misconceptions that many people have about science and scientists. Interspersed throughout the video are comments from already established scientists and people working in the scientific community about the reasons why scientists do what they do.

1 Video Cassette (19 min)

+ 1 teacher's guide (25 p.)

Q147 .O5 1995

The Origin of the Sonoran Desert.

KUAT Communications Group (1991)

Discusses the geological formations that formed the Sonoran Desert and shows the Sierra de Alamos, a small mountain range isolated from the Sierra Madre, filled with white rock spires - or "Los Frailes," (the friars). Also compares the Sonoran Desert and the deciduous tropical forest.

1 Video Cassette (28 min.)

QE86.S63 O75 1991

Origins: Fourteen Billion Years of Cosmic Evolution.

WGBH Boston Video (2004)

"Who would have predicted that a hot spot left over from the Big Bang would eventually lead to our galaxy, the solar system, the Earth, - and to us? Origins explores how the universe and our planet began amid chaos and eventually gave birth to the first stirrings of life"—Container.

disc 1 -- Earth is born -- How life began

disc 2 -- Where are the aliens? -- Back to the beginning
2 videodiscs (ca. 240 min.)
QB981 .O74 2004

Our Daily Bread.

First Run/Icarus Films (2005)

Welcome to the world of industrial food production and high-tech farming. Produced between October 2003 and October 2005 the film looks into the places where food is produced in European farms, greenhouses, processing plants and other places where crops and animals are cultivated and processed to become food for people. The images of food and animals treated as an industrial products are presented without comment.

1 videodisc (92 min.)

SF140.L58 O87 2005

Ozone Town Meeting.

PBS (1992)

Ozone layer and CFCs are the focus of this discussion. In June 1992, at the Quadrennial Ozone Symposium, an open forum for scientists and government policy makers, industrialists and the public reported on and questioned new discoveries on ozone.

Video Cassette (1 hr)

QC 881.2 O9 O86

Pacific Hot Spot Islands.

GeoPhoto Pub. Co. (1988)

Illustrates the evolutionary history of Pacific island hot spot volcanoes, using the Hawaiian Islands as an example.

39 Slides

Guide

QE524.2.U6 P32 1988

A Parasite Primer.

Films for the Humanities & Sciences (2004)

"Lethal parasites kill one human every ten seconds. Others prefer to keep people alive, for food and shelter. In this program patients discuss their encounters with botfly maggots, leeches, candiru fish, elephantiasis, tapeworms and cerebral tapeworm cysts, and a tiny water parasite that eats away at the interior of the eye. Experiments include one in which lice are scattered on a volunteer to see how they react and another in which a volunteer incubates a monstrous beef tapeworm in his digestive tract-and then expels it"—Container.

1 videodisc (50 min.)

RC119 .P337 2004

Parasites That Harm, Parasites That Help.

Films for the Humanities & Sciences
(2004)

"This program contrasts pernicious and benign parasites through four case studies: a flesh-eating organism that nearly causes the facial disfigurement of a young woman; a mysterious malaria attack contracted by an American man who has never traveled to an at-risk locale; a vacationing child who returns home with a boil on her neck containing a very large Tumbu fly maggot; and a woman who voluntarily takes worms into her body to relieve a painful intestinal condition. Research into using beneficial parasites to treat asthma and allergies such as hay fever is also presented"—Container

1 videodisc (50 min.)
RC119 .P344 2004

Paul Jacobs and the Nuclear Gang.

Distributed by the Cinema Guild (2005)

Reporter Paul Jacobs investigated the health effects of exposure to low-level radiation on soldiers and civilians who participated in atomic bomb tests in the Nevada desert.

1 videodisc (68 min.)
PN4874.J33 P28 2005

Petrified Forest.

GeoPhoto Publishing Co. (1982)

Discusses the geology of the Petrified Forest National Park in Arizona.

20 Slides
Guide
QE86.P4 G46 1982

Petrography of Iron Titanium Oxides.

Michigan Technological University (1983)

An informal lecture consisting of down-the-tube reflected light microscopic views of Fe-Ti oxides in volcanic rocks.

2 Video Cassettes (1 hr 10 min)
TN 693 T5 P47 tapes 1-2

Photosynthesis.

Classroom Productions (1995)

Explains how plants use photosynthesis to convert light to food and oxygen. Also explains the mechanics of respiration and the role and importance of photosynthesis in the food chain and in the production of oxygen.

Video Cassette (30 min)
QK 882 P53

Planet Earth.

Discovery Channel (2007)

"Journey from the highest peaks to the deepest oceans--pole to pole across the Earth. State of the art filming techniques and dramatic Cineflex aerial photography give you a glimpse of the natural world that will astound your eyes for hours"—Container.

disc 1. Pole to pole ; Mountains ;
Deep ocean
disc 2. Deserts ; Ice worlds
; Shallow seas
disc 3. Great plains ;
Jungles ; Fresh water
disc 4. Seasonal forests ;
Caves
disc 5. Planet Earth: the
future ; Saving the species ; Into the
wilderness ; Living together.
QL50 .P53 2007

Planet Earth.

Annenberg/CPB Collection (1986)

1. The Living Machine. Plate tectonics is explored with scientists on location. Visits the eruption of Kilauea volcano and the bottom of the Atlantic Ocean. QE 511.4 P47

2. The Blue Planet. Major new revelations about the sea are presented by scientists aboard the space shuttle and diving to the depths of the "middle ocean" to view rare life forms. GC 21.5 P53

3. The Climate Puzzle. Follow the clues that have helped scientists piece together and unfolding mystery -- what caused the ice ages, how Venus' greenhouse effect may have parallels on earth, and what Antarctica's eerie ice rivers demonstrate. QB 631 P53

4. Tales from Other Worlds. Visit the great failed star of Jupiter, probe the raging volcano of Io, and peer through acid rain clouds to see the surface of Venus. QB 501 P53

5. Gift from the Earth. By examining the earth's mineral and energy sources, scientists analyze how the theory of plate tectonics has revolutionized the search for earth's riches. QE 511.4 P472

6. The Solar Sea. Geologists investigate an 800 million-year-old rock record of sun activity in an ancient Australian lakebed. Photography of the aurora borealis contributes to an understanding of earth's relationship to the sun. QB 631 P532

7. Fate of the Earth. New theories about the biological consequences of a "nuclear winter" and an "ultra-violet spring" are revealed. QB 631 P533

7 Video Cassettes (1 hr ea)

Planet of Life.

Discovery Channel (1995)

1. The Birth of Earth; Ancient Oceans
2. When Dinosaurs Ruled; Creatures in the Sky
3. The Insect World; Apes to Man
4. Evolution's Next Step Follows the evolution of life on earth.

4 Video Cassettes (5 hr 50 min total)

QH 371 P62 vol 1-4

Plants in Peril.

Films for the Humanities & Sciences (1988)

Explains the need to preserve plants that might become a source of food and medicine, as well as wild plants whose genes must be preserved to insure the development of genetically diverse crop strains. Also describes efforts to save vanishing species.

Video Cassette (26 min)

QK 86 A1 P57

Plate Tectonics.

EME (1986)

Traces Wegener's ideas on continental drift to the discoveries of the mid-ocean ridges, trenches, sea-floor spreading, transform faults, and the global pattern of shifting tectonic plates.

Video Cassette (14 min)

QE 511.4 P568

Plate Tectonics: The Puzzle of the Continents.

Earth Science Video Library (1990)

Explores the scientific revolution that began with Alfred Wegener's hypothesis on Continental Drift and ends with today's theory of Global Plate Tectonics. Explains where crustal plates are found, why their interaction results in earthquakes and volcanoes, and how their perpetual movement is governed by forces deep within the earth.

Video Cassette (18 min)

QE 511.4 P583

A Predictable Catastrophe.

Films for the Humanities & Sciences
(2006)

Human enthusiasm for progress--particularly when shortsighted, misguided, or tainted by self-interest--can ricochet, marring the global environment and the lives of millions. The world's fourth largest lake in 1960, today the Aral Sea is one-fifth of its former size. In 1949, the Soviet government diverted its feeder rivers to make the entire region a large-scale independent cotton producer. This succeeded, but killed the Aral Sea--over 20 years, it has lost 640 cubic kilometers of water, 3.5 million people have seen their health, jobs, and living conditions literally go down the drain. The once thriving fishing and canning industry has evaporated, replaced by anemia, high infant and maternal mortality, and debilitating respiratory and intestinal ailments.

1 videodisc (30 min.)
GE140 .P72 2006

The Prevailing Westerlies, The Horse Latitudes, and The Doldrums; Global Air Circulation.

Blue Sky Associates (1992)

Using explorers as examples, Greenler explains world air circulation patterns.

Video Cassette (59 min)
QC 880.4 A8 P74

The Private Life of Plants.

Turner Home Entertainment (1995)

Explores the world of the plant kingdom through time-lapse photography in world-wide locations.

1. Branching out
2. Putting down roots
3. The birds and the bees
4. Plant politics
5. Living together
6. It's a jungle out there

6 Video Cassettes (5 min each)
QK 50 P75 vol 1-6

Professional Ethics and Science.

Technology and Human Values (1999)

The video is designed to enhance professional ethics training for science students, it presents scenarios that illustrate common ethical dilemmas.

1 videodisc (15 min.)
Q175.35 .P76 1999

The Proof.

WGBH Boston Video (1997)

Describes mathematician Andrew-Wiles' quest to prove Fermat's Last Theorem and shows complex mathematical concepts with the help of computer animation.

Video Cassette (60 min)
QA 244 P76

Quiet Steel.

American Petroleum Institute (1990)

Discusses steep pipelines that carry petroleum, how they were constructed, easement agreements of the pipelines, and laws that affect the pipelines.

Video Cassette (17 min)
TN 879.5 Q53

Race for the Superbomb.

WGBH-TV

Discusses the development of the hydrogen bomb and the possibility of nuclear warfare.

Video Cassette (1 hr. 55min.)
UG1282.A8 R33 1999

Race to Catch a Buckyball.

WGBH (1995)

Describes the research which led to the discovery of a new form of pure carbon, C60.

Video Cassette (1 hr)
QD 181 C1 R32

The Race To the Moon.

A&E Television Networks (2004)

Join the History Channel for the ultimate 35th birthday celebration of one of the most extraordinary events of the 20th century, in this incomparable collector's commemoration of the moonwalk and the early days of the space race.

v. 1. Failure is not an option.

v. 2. Code name Project

Orion ; Modern marvels : Apollo 13 ; Modern marvels : the space shuttle.

2 videodiscs (232 min.)

TL799.M6 R33 2004 1-2

Radioactive Dating.

Coronet

Animation explains radioactive decay and half-life; while a combination of field and laboratory studies shows how carbon-14 and potassium-40 are used to date materials.

Video Cassette (13 min)

Discussion Guide

QC 798 D3 R27

Radioactive Waste Disposal: The 10,000 Year Test.

Films for the Humanities (1993)

American law demands that scientists prove that wherever the nation's lethal high-level nuclear waste is buried, it will be safe. Investigates current research in the middle of the Nevada desert where the nuclear dump is to be located. Scientists create computer simulations that take into consideration rocks, weather, ground water behavior, and human activity.

Video Cassette (50 min)

TD 898.118 R33

The Rainbow Mathematical Modeling and the Study of Light.

Films for the Humanities and Sciences (1997)

This program uses mathematical modeling to explain how light produces color in rainbows.

Video Cassette (25 min)

QC 976 R2 R33

Recipes for Disaster.

Icarus Films, c2008

A filmmaker and his family embark on a year-long "oil diet", aiming to reduce their consumption of petroleum-based products in hopes of minimizing their contribution to greenhouse gases.

1 videodisc (63 min.)

TD171.7 .R43 2008

Red Rock Canyon.

Story Behind the Scenery Audios (1991)

Discusses the geology, history, animal and plant life of Red Rock Canyon.

Cassette

F 847 C5 R43

Remote Sensing.

GPN (1991)

1. Spectrum: Emphasizes the history of remote sensing, reviewing the electromagnetic spectrum and the roles various bands play in response to basic RS questions. (24 min)

2. Technology: Expands on basic ideas reviewed in tape 1. Provides examples of conventional and infrared photography, digital imaging, Landsat, SPOT, and various weather satellites. (27 min)

3. Application: Focuses on the FIFE project. (29 min)

3 Video Cassettes

G 70.4 R453 vol 1-3

Research In the Desert.

KUAT-TV (1990)

A report on the diverse study projects being conducted in the Sonoran Desert, including packrat research (climatic change), plant research (creating new species), and urban habitats (renewable resources).

1 Video Cassette (30 min.)

QH104.5.S58 R47 1990

A Restoration Drama (Sulfur).

Films for the Humanities (1991)

St Servatius Basilica in Holland has been restored and redesigned several times. During the 20th century the interior began to decay. Shows the fascinating combination of steps necessary to solve the problem with calcium sulfate built up in the stone of the church, remove the sulfate and save the church.

Video Cassette (30 min)

QD 181 S1 R47

(Arch Media)

Richard Rodriguez & Sir John Houghton.

Films for the Humanities & Sciences (2006)

Richard Rodriguez speaks about spirituality, mortality, and growing up in a Catholic family and community that were often at odds with Protestant-dominated America. Sir John Houghton speaks as a scientist and evangelical Christian. He explains his belief that science and religion can both work towards improving the human condition.

1 videodisc (57 min.)

F870.M5 R53 2006

Ring of Truth.

PBS Video (1987)

Shows how science knows what it knows, moving from the time of Galileo to the modern era of quantum, mechanics and astrophysics. Phillip Morrison stresses the actual hands-on experiences of gathering and evaluating scientific evidence and invites viewers to participate actively.

1. Looking

2. Change

3. Mapping

4. Clues

5. Atoms

6. Doubt

6 Video Cassettes (1 hr each)

Q 175 R46 pt1-6

Robofly.

Pyramid Media (2001)

This documentary explores the science of robotic insects.

1 Video Cassette (26 min.)

TJ211 .R528 2001

The Rock Cycle.

Terra Productions (1990)

Explores the processes and products of our ever-changing earth. Explains how rocks evolve and transform from one type to another in a never-ending cycle.

Video Cassette (30 min)

Guide (28 p)

QE 432 R63

Rocks and Their Minerals.

Society for Visual Education (1970)

Contains photographs of sedimentary, igneous, and metamorphic rocks, and some of the minerals that make up those rocks.

20 slides

Guide

QE 431.2 R62

Rocky Mountain National Park.

GeoPhoto Pub. Co. (1986)

Presents photographs of the Park emphasizing the geologic forces which shaped the landscape, including Precambrian rock masses, Tertiary volcanism and erosion, Pleistocene glaciation, and present-day running water.

22 Slides

Guide

QE92.R6 R62 1986

Runaway Universe.

WGBH Boston Video (2000)

Discusses the mysterious force that is pushing the universe apart. Also discusses the size of the universe and what a supernova looks like.

Video Cassette (1 hr)

QB991.E94 R85 2000

Running Water.

GeoPhoto Pub. Co.

Shows physical characteristics of streams and rivers, flooding, erosion, waterfalls, and sedimentation.

37 Slides

Guide

QE431.6.W38 R85 1989

The Sacred Balance.

Bullfrog Films (2003)

"What is the role of human beings in the sacred balance of life? Since human beings first appeared on Earth, they have lived in a sacred relationship with the place they inhabit, the land they depend on ... [O]ur family is far larger than we realize. We're at home in the human community and in the biosphere, close relatives of every living thing. We are all creatures of the living Earth. The important thing ... is that if we can see and feel the web we're a part of, we can change the way we act towards it"— Container.

Disc. 1.

episode 1. Journey into new worlds / director, Michelle Metivier.

episode 2. The matrix of life / directors, Harvey Crossland ... [et al.]

disc 2.

episode 3. The fire of creation / director, Michelle Metivier.

episode 4. Coming home / directors, Barry Greenwald ... [et al.]

2 videodiscs (216 min.)

GF21 .S335 20039

Savage Skies.

MPI Home Video (1996)

1. Fire and Rain- Explores the deceptive disguises worn by rain and the effects it has on people around the globe. (55 min) QC925 F57

2. Monsters of the Deep - Examines the causes of hurricanes and delves into the phenomenon known as "El Nino", a current in the Pacific Ocean with far reaching effects on weather. (57 min) QC 944 M65

3. Riders on the Storm - Follows scientists, lightning photographers and "storm chasers" as they hunt for tornadoes and storms. (59 min) QC 955 R53

4. The Winter's Tale - Shows winter scenes in various locations, demonstrates how humans have come to adapt their lifestyles to the demands of winter. (58 min) QC 926.32 W55

4 Video Cassettes

Science and Ethics.

Films for the Humanities & Sciences (1995)

With the advancement of the scientific and technological age, there is a new level of ethical issues. This video deals with and discusses those issues. Two of the questions are "Is there a limit as to where science should tread?" and, "How can privacy be maintained in the face of computers that increasingly invade our lives?" Also discusses ethical issues having to do with biotechnology.

Video Cassette (23 min)

Q 175.35 S42

Science and Gender: Evelyn Fox Keller.

Films for the Humanities (1994)

Keller discusses how gender plays a significant role in the language that scientists use to describe their work.

Video Cassette (30 min each)

Guide

Q 130 E84

Science First Hand [: Models to Physical Science: Three Classrooms at Work.

WGBH Videos (1995)

Presents three public school teachers offering hands-on physical science experiences to students in real-life classrooms.

1. Structures

2. Tops and Yo-yos

3. Water Wheels

Video Cassette (30 min)

Q 181 S372 v 1-3

Science in Focus: Energy.

Annenberg/CP (2002)

Workshop for science teachers on understanding the concept of energy including distinguishing between the meaning of energy to the man on the street and its meaning to scientists, and energy's role in motion, machines, food, the human body, and the universe as a whole. Also discusses how energy can be converted from one form to another and transferred across time and space and the conservation of energy.

8 Videocassettes (ca. 480 min.)

1 guide (32 p.)

QC73.6 .S35 2002 no.1 – 8

The Science of Cloning.

Films for the Humanities (1997)
 Traces the history of genetic reproduction technology such as in vitro fertilization, parthenogenesis of cloning. Discusses cloning's implications for biology, medicine, and agriculture.
 Video Cassette (25 min)
 QH 442.2 S35

Science on File.

Facts on File (1996)
 Combines Human body on file, Animal anatomy on file, Life sciences on file, Earth sciences on file and Physical sciences on file. Includes more than 1,200 copyright-free images and 3,000 corresponding encyclopedia entries.
 Computer optical disc
 Q161.7 S35

Scientific Evidence For Life After Death?
(1998)

Charles T. Tart, who is a professor at the Institute of Transpersonal Psychology in Palo Alto, California, and was the University of Nevada, Las Vegas's first holder of the Bigelow Chair of Consciousness Studies, speaks about near-death experiences, scientific evidence for life after death, and transpersonal psychology. Includes question and answer session.
 1 Video Cassette (113 min.)
 BF1045.N4 S35 1998

The Scientific Method.

Cambridge Educational (2004)
 Examines the basic elements of the scientific method: defining and researching the problem, forming a hypothesis, gathering information through experimentation and observation, analyzing the data, forming a conclusion, and communicating the results.
 1 videodisc (ca. 23 min.)
 Q175.32.R45 S35 2004

Scientific Reasoning.

Cambridge Educational (1999)
 Explore the basic steps in scientific methodology; defining the problem and forming a hypothesis, experiments and observations, analyzing data, forming conclusions and communicating results.
 Video Cassette (25 min)
 Q175.32 R45 S35

Sea Cliff Retreat.

GeoPhoto Pub. Co. (1979)
 Shows the effects of wave action on the sea cliffs around San Diego, and the efforts made to control the damage.
 20 Slides
 Guide
 TC224.C2 S42 1979

Search for a Safe Cigarette.

WGBH Boston Video, c2001
 Discusses tobacco's role in U.S. history, cigarette marketing, how tobacco damages DNA, the impact of the Surgeon General's warning, and if science help create a safer cigarette.
 Video Cassette (1 hr)
 HD9149.C42 S43 2001

The Search For Heavy Elements.

Pyramid Film & Video (1994)
 Takes the viewer step by step through the element building process. Discusses the history of the discovery of heavy elements. Also discusses the latest thinking on scientific concepts such as the structure of atoms and their nuclei and how the periodic table works
 1 Video Cassette (24 min.)
 QC776 .S42 1994

The Secret Life of Machines.

Lucerne Media
 Engineer Tim Hunkin demonstrates that the secret is applied science. Traces the evolution of early inventions into today's modern machines. Explains what makes them function.

The Car TL 205 S42**The Central Heating System**
TH 7215 S42**The Internal Combustion Engine**
TJ 785 S42**The Quartz Watch** TS 542 S42**The Radio Set** TK 6547 S42**The Refrigerator** TP 496 S42**The Sewing Machine** TJ 1507 S42**The Telephone** TK 6015 S42**The Television Set** TK 6637 S42**The Vacuum Cleaner**

TH 7695 V2 S42

The Videorecorder TK 9961 S42**The Washing Machine** TT 997 S42

12 Video Cassettes (30 min ea)

The Secret Life of the Brain.

PBS Home Video (2002)

This series explores the startling new map of the brain that has emerged from the past decade of neuroscience and shares a revelatory view of this most complicated organ, which now contradicts much of what we previously believed.

- 1- The baby's brain: wider than the sky
- 2- The child's brain: syllable from sound
- 3- The teenage brain: a world of their own
- 4- The adult brain: to think by feeling
- 5- The aging brain: through many lives

5 Video Cassettes (5 hrs)
QP376 .S417 2002

The Secret Life of the Office.

Lucerne Media

Engineer Tim Hunkin demonstrates that the secret is applied science. Traces the evolution of early inventions into today's modern machines. Explains what makes them function.

The Electric Light TK 4175 S42

The Elevator TJ 1370 S42

The Fax Machine TK 6710 S42

The Office HF 5547 S42

The Photocopier HF 5541 C8 S42

The Word Processor

HF 5548.115 S42

6 Video Cassettes (30 min ea)

The Secret of Life.

PBS (1993)

1. The Immortal Thread introduces viewers to the chemistry of the DNA molecule.

2. Accidents of Creation explores the variety of life rooted in the accumulation of tiny errors in DNA.

3. Birth, Sex, and Death asks the questions: If every cell in an organism has the same genes, why are some cells different?

4. Conquering Cancer probes the new understanding of the molecular machinery that causes cells to turn cancerous.

5. The Mouse that Laid the Golden Egg covers the controversial trend of genetically engineering life forms for human benefit.

6. Cell Wars looks at a search-and-destroy mechanism, the immune system that can defeat almost any invader.

7. Children by Design ventures into the new world of gene therapy, covering the human stories behind new experiments to tinker with the body's most basic instructions.

8. Who Are You? looks at identical twins, nature's experiment in human clones. Offers insight into the inheritability of character, intelligence, and other traits.

4 Video Cassettes (1 hr each)

QH 506 S43 tapes 1-4

Secret of Photo 51.

Boston Video (2003)

"On April 25, 1953, James Watson and Francis Crick published their groundbreaking discovery of the double helix structure of DNA, the molecule essential for passing on our genes and the secret of life. But their crucial breakthrough depended on the pioneering work of another biologist, Rosalind Franklin. She would never know that Watson and Crick had seen a crucial piece of her data without her permission. This was an X-ray image, Photo 51, that proved to be a vital clue in their decoding of the double helix."--Container. Contains interviews, historical photographs and reenactments

1 Video Cassette (60 min.)

QH506.F72 S43 2003

Secrets of Easter Island.

Coronet Film & Video (1989)

Nova probes the theories on the origin of its people, and questions why none of the island's 2,000 present inhabitants know how, why, or by whom the giant stone statues were created.

Video Cassette (58 min)

F 3169 S43

Secrets of the Mummy.

TLC (1994)

See summary in Archaeology section.

Video Cassette (58 min)

DT 87.5 S42

Sedimentary rocks.

GeoPhoto Pub. Co., c1989

Presents examples from various U.S. locations of marine and nonmarine sedimentary terrains and modern day depositional environments. Pictures organic, inorganic oxidized and reduced marine rocks, and marine fossils; coal deposits and dinosaur tracks and remains; aeolian loess and sand dune deposits; playas, saline and pluvial lake deposits and fluvial deposits.

Slides

QE471 .S393 1989

Selected Lectures in Mathematics.**Modular Elliptic Curves and Fermat's Last Theorem.**

American Mathematical Society (1993)

Ribet gives two lectures about his proof of the Taniyama Conjecture, one of the crucial links to Fermat's last theorem. In 1993, Andrew Wiles announced his proof of this theorem. These lectures describe the main ingredients in Wiles's results.

Video Cassette

QA 244 M63

The Shape of Life.

SlingShot (2002)

Discusses evolution and shows eight biological designs that are the underpinnings of nearly all animal life.

[pt.1]

episode 1. Origins.

episode 2. Life on the move

[pt.2.]

episode 3. First hunter.

episode 4. Explosion of life

[pt.3.]

episode 5. Conquerors.

episode 6. Survival game

[pt.4.]

episode 7. Ultimate animal.

episode 8. Bones, brawn & brains

4 videodiscs (106 min. each)

QH367.5 .S54 2002 pts.1-4

Shaping the Future.

Films for the Humanities & Sciences (2006)

Demonstrates the importance of chemistry and nanotechnology and their applications in medicine, sports, and the arts.

1 videodisc (30 min.)

TP248.2 .S43 2006

Sharkwater.

Warner Home Video, c2008

Driven by a passion fed from a life-long fascination with sharks, filmmaker Rob Stewart debunks historical stereotypes and media depictions of sharks as bloodthirsty monsters and reveals the reality of sharks as pillars in the evolution of the seas.

1 videodisc (90 min.)

QL638.9 .S565 2008

Shasta Debris Avalanche.

GeoPhoto Pub. Co. (1985)

Shows world's largest Quaternary debris avalanche that roared down the northwestern slope of the Cascade stratovolcano Mount Shasta in northern California between 300,000 and 360,000 years ago.

7 Slides

Guide

QE599.U6 S53 1985

Sight.

BBC Worldwide Americas

An exploration of the world through different eyes, revealing there is more to sight than that which meets the human eye.

Video Cassette (35 min.)

QP475.5 .S54 1997

Sila Alangotok: Inuit Observations on Climate Change = Observations des Inuit sur le Changement Climatique.

International Institute for Sustainable Development, [2000?]

Observations by the Inuvialuit of Sachs Harbour support what has long been predicted--that climate change would be felt first in the Polar Regions. This community's way of life is at risk, an urgent warning of the negative impacts of climate change predicted to occur elsewhere in the world. This video documents the impacts of climate change from an Inuvialuit perspective. On Banks Island in Canada's High Arctic, the residents of Sachs Harbour have witnessed dramatic changes to their landscape and their way of life. Exotic insects, fish and birds have arrived; the sea ice is thinner and farther from the community, carrying with it the seals upon which the people depend for food; the permafrost is melting, causing the foundations of the community's buildings to shift and an inland lake to drain into the ocean. In the fall, storms have become frequent and severe, making boating difficult. Thunder and lightning have been seen for the first time.

1 videodisc (42 min.)

QC985.5.N72 B357 2000

Silence of the Bees.

Educational Broadcasting Corp. (2007)

"Honeybees first appeared on earth around 80 million years ago, and from the beginning have played a key role in our survival. Most fruit trees and vegetable species are entirely dependent on bees to produce, and there is no commercially viable artificial replacement for natural pollination. In the past year up to 80% of the honeybees in the US have vanished. The massive die-offs, first reported in November of 2006, are now the subject of emergency research around the globe as the devastation spreads and scientists race to discover the cause of this ecological disaster. Could it be a disease? Or is it caused by cellphones, pesticides, mites, fungi, or the stress that comes from increasingly industrialized beekeeping operations? Whatever is happening, we must solve the mystery soon, and correct the problem, or face consequences we hardly dare imagine"--

Container

1 videodisc (ca. 60 min.)

QL568.A6 S55 2007

The Sinister Hand.

Films for the Humanities and Sciences (1999)

Academic and medical experts explore cultural, physiological, hormonal, and genetic theories of handedness. The connection between hand dominance and language control is also examined, as has the association of left-handedness with enhanced spatial perception and emotional expression.

Video Cassette (28 min)

QP 385.5 S55

Six Billion and Beyond.

Berkeley Media, 1999

Explores the issues of population growth and the issues surrounding it: reproductive health, overpopulation, and the environment in six nations: Mexico, Kenya, India, China, Italy, and the United States

1 videodisc (56 min.)

1 guide (1 sheet)

HB871 .S59 1999

Sleuthing the Arctic for a Missing Glacier.

Blue Sky Associates (1993)
 Series: The Science Bag
 Discusses what glaciers are, theories of Arctic glaciation, glacial processes and the scientific method.
 Video cassette (68 min)
 GB2403.2 .S54

Smithsonian World. Web of Life.

PBS Video (1989)
 Scientists, historians, social analysts, and a philosopher/poet consider the origins, myths, and potential of mankind's attempts to control the genetic basis of life.
 Video Cassette (58 min)
 QH 442 S64

Solar Blast.

National Geographic Television in cooperation with PBS
 Solar blast refers to the sun's sphere of superheated gas powered by nuclear fusion and erupting into storms. We need to understand and predict this phenomenon because of potential disruptions on earth. High altitude ice cores are one means of studying the history of earth's climate and environment. Chemistry of this ice reveals a connection between eleven year sun cycles and earth climate. At present solar researchers can give only an hour warning before a solar blast strikes earth.
 Video Cassette (57 min.)
 QC883.2.S6 S58 2000

South Dakota Badlands.

GeoPhoto Publishing Co., c1983
 Discusses the geology of the South Dakota Badlands.
 20 Slides
 Guide
 QE164.B3 S68 1983

Southern California Mass Wasting.

GeoPhoto Publishing Co. (1978)
 Discusses the landslide activity associated with the 1977-78 rains in coastal areas of southern California where areas with clay rich layers between rock layers had been disturbed by grading operations.
 36 Slides
 Guide
 QE599.U6 S68 1978275073

Space, Time, Einstein, and Spacetime.

Blue Sky Associates, 1992
 John Friedman discusses early assumptions about the world, and explains how scientific inquiry has proven them false.
 Video Cassette (53 min)
 CB151 .S63 1992

Spiral Shapes and Mathematical Models.

Films for the Humanities & Sciences (1995)
 This program illustrates how spirals can be mathematically modeled by examining their fundamental features. Both two- and three-dimensional spirals are examined. Features considered include angle, radius, pitch, rotation, and circle and wave patterns. Computer animation and mathematical formulas illustrate how shapes can be altered by manipulating their features.
 Video Cassette (25 min)
 QA 567 S65

Splendid Stones.

National Geographic Society (1991)
 Discusses precious stones, especially diamonds, how they are formed, used, their fascination, and intrinsic and esthetic value.
 Video Cassette (1 hr)
 QE 392 S67

Sputnik Declassified.

WGBH Boston Video, c2008
 On October 4, 1957, the space age dawned with the red hue of the Communist flag when the Soviet Union launched the first artificial satellite. Sputnik stunned the world and spurred the U.S. into massive spending on science education and innovation. Fierce political and personal rivalries collided over how and when the U.S. should enter space. President Eisenhower wanted a satellite to spy on the Russians but feared their response to an overtly military program. That led him to sideline the plans of Wernher von Braun, the leader of the U.S. Army's pioneering rocket team.
 1 videodisc (ca. 56 min.)
 TL796.5.R8 S68 2008

A Stampede of Zebras.

Duke University (1996)
 Dramatized case study of the alteration of research data.
 1 videocassette (40 min.)
 Q180.55.M67 S73 1996

The State of the Ocean's Animals.

Screenscope (2007)
 Investigates why so many of our ocean's animals are disappearing. Case studies focus on global issues including climate change, sea-level rise, over-fishing and habitat destruction. Areas of focus include: Antarctica and the emperor penguin; Melbourne Beach, Florida and sea turtles; Klamath River, Oregon and salmon; Monterey Bay, California and sea otters.
 1 videodisc (57 min.)
 QH541.5.S3 S63 2007

Stephen Toulmin. A Glorious Accident.

Films for the Humanities (1994)
 An interview with Stephen Toulmin, Science Historian. Writer of Wittgenstein's Vienna.
 Video Cassette (1 hr)
 Q 171 G56 no. 4

The Strange New Science of Chaos.

Coronet Films & Video (1989)
 A group of scientists believes that random happenings can be described by laws just as the movements of planets are. The new order beneath the disorder is known as chaos theory, one of the fastest growing fields in science. Chaos theory shows that Newtonian determinism and unpredictability can exist at the same time.
 Video Cassette (1 hr)
 Q 172.5 C45 S87

Stratigraphic Traps: The Tidal Flat Model.

AAPG (1981)
 Shows tidal flat depositional processes in the field and explains their implications by comparing them with rock samples from ancient tidal flats.
 Video Cassette (13 min)
 QE 651 S77

Stress: Portrait of a Killer .

National Geographic 2008
 A Stanford University neurobiologist has been advancing our understanding of stress - how it impacts our bodies and how our social standing can make us more or less susceptible. Research reveals that the impact of stress can be found deep within us, shrinking our brains, adding fat to our bellies, even unraveling our chromosomes. Yet understanding how stress works can help us figure out a ways to combat it and how to live a life free of the tyranny of this contemporary plague.
 1 videodisc (52 min.)
 RC455.4.S87 S778 2008

Structure of the Bighorn Mountains.

GeoPhoto Publishing Co. (1983)
 Discusses the geology of the Bighorn Mountains in Wyoming.
 8 Slides
 Guide
 QE182.B53 S77 1983

Suicide Mission to Chernobyl.

Films for the Humanities (1991)
 Accompanies Soviet scientists on a deadly mission inside the massive structure that entombs the Chernobyl nuclear reactor. Though the scientists regard their assignment as a victory, team members were inevitable and repeatedly exposed to high levels of radiation.
 Video Cassette (1 hr)
 TK 1362 S65 S85

Survey of the Colorado Plateau.

GeoPhoto Publishing Co. (1990)
 Discusses the six stages of the geologic history of the Colorado Plateau.
 36 Slides
 Guide
 QE79 .S87 1990

[AIDS] Surviving AIDS.

WGBH Boston Video (1999)
 (Producer) Bob Massie has survived with AIDS since 1978 without the help of drugs. What immunologists, physicians, molecular biologists and courageous patients are learning will help achieve the ultimate goal: every AIDS patient a long-term survivor.
 Video Cassette (1 hr.)
 RA643.5 .S87 1999

Symmetry in Art, Nature and Molecules.

Blue Sky Associates (1990)

A lecture-demonstration illustrating various aspects of symmetry in art, nature, music and molecules.

Video Cassette (50 min)

Q 172.5 S95 S85

Taking Nature as a Model.

Films for the Humanities & Sciences (2006)

"This program shows how naturally occurring chemical compounds inspire scientists to push the boundaries of communication and production technology. Entering the insect world, the video explains how bees, butterflies, and other creatures have developed sophisticated methods of communicating and detecting sensory information, and how alternative versions of these systems have been created in laboratories. The chemical makeup of printer's ink and tire rubber--as well as the manufacturing of computer chips--are also shown to be heavily influenced by our understanding of natural substances"—Container.

1 videodisc (29 min.)

QD37 .T35 2006

Tales from the Hive.

WGBH Boston Video (2000)

Specially developed macro camera lenses are used to portray a year in the life of a working bee colony. Exposes the secret world of a bee colony, including life-or-death battles, attacks on the hive and the meaning of a scout bee's dance.

Video Cassette (1 hr.)

QL565 .T34 2000

Tesla: Master of Lightning.

PBS Home Video

This contemporary of Thomas Edison and Guglielmo Marconi is seldom credited with his inventions. Yet, we benefit from the technology he invented, developed, or imagined as we make use of electricity, remote control devices, neon and florescent lighting, and radio transmission.

Video Cassette (90 min)

TK140.T4 T47 2000

[Tesla] Nikola Tesla : The Genius who lit the World.

Tesla Memorial Society (1995)

Discusses some of Tesla's major achievements in the fields of electrical engineering, radio, and robotics.

Video Cassette (43 min)

TK 140T4 N55

Teton Horst and Jackson Hole Graben.

GeoPhoto Publishing Co. (1979)

Discusses the Teton Horst and the Jackson Hole Graben fault block systems and the geology of the Teton Range.

20 Slides

Guide

QE606.5.U6 T47 1979

The Third Dimension.

Films for the Humanities & Sciences (1995)

The graphing of linear equations with three variables provides an introduction to the third dimension and the z-axis. Ways of plotting ordered triples are explored and developed, and lead to the sketching of planes in three dimensional space. A system of three equations with three variables is solved and graphed in three dimensions. Examples of how three planes can intersect are explored.

Video Cassette (10 min)

QA 372 T45

Thistle Landslide.

GeoPhoto Pub. Co. (1988)

Illustrates the landslide near Thistle, Utah, in the Wasatch Mountains in 1983, its effects and efforts to manage the damage.

37 slides

Guide

QE599.U6 T35 1988

Too Hot Not to Handle.

Home Box Office, c2006

"Over the past 100 years, the mass consumption of fossil fuel, especially in America, has contributed to a dangerous global warming that is now beginning to adversely impact our lives and promises to do far greater damage if we continue to ignore its warning signs. This cautionary documentary offers a guide to the impacts of global warming on the U.S. and gives measures that can be taken to reverse this trend"—Container.

1 videodisc (ca. 54 min.)

QC981.8.G56 T66 2006

Too Hot to Handle?

Films for the Humanities & Sciences (1998)

Acceptable Risks? Shows the occurrence of statistical anomalous leukemia cluster; governmental testing of marine organisms and how they absorb radiation; charts the kinds and amount of natural and man-made radiation, suggests there is no easy solution to balancing our fears of nuclear power and our need for it. (16 min) TD 812 A22

Cores and Effects explains how first and second generation plants work; what physical and environmental problems arise; how and why accidents occur; how Three Mile Island killed the illusion of absolute safety in nuclear power. (23 min) TK 812 A22

The Nature of Radioactivity examines the 40 plus years between Hiroshima and Chernobyl. Explains the four kinds of radiation, how they work, where they appear in nature, and why radon gas poses such danger. (20 min) QC 795 N37

Radiation: Boon or Bane? Shows the work of Ernest Rutherford, explains Einstein's critical $E=mc^2$ equation, the chain reaction in fission, and relates the history of the Manhattan Project. (17 min) QC 795 R33

4 Video Cassettes

Tornado!

WGBH (1985)

Follows a chase team of scientists as they pursue nature's most destructive and elusive weather phenomenon.

Video Cassette (60 min)

QC955 .T66

Transistorized!

PBS Home Video : KCTA National Productions

Tells the story of the history of the transistor and the scientists who discovered it.

Video Cassette (60 min)

Teacher's Guide (13 p.)

TK7872.T73 T73 1999

Transportation Advances. 1.

Chip Taylor Communications (2001)

Presents advances in transportation such as a portable airplane that carries two people and fits in a standard garage, a moving map display for pilots based on the Global Positioning System, a jet that is the smallest 4-seater aircraft in the world, a model aircraft that requires no experience to control it, and advances in fire-resistant materials to be used in planes, trains, and cars.

Video Cassette (24 min.)

TL545 .T73 2001

Transportation of Nuclear Materials.

Films for the Humanities (1998)

Beginning with a tip about an accident aboard a freighter that was carrying nuclear materials, this program documents a vast web of international nuclear shipments, deliberately mislabeled and knowingly covered up by government agencies in France and the US.

Video Cassette (40 min)

TD 898 T68

Transportation of Radioactive and Other Hazardous Materials. Safety, Our Prime Concern.

Argonne National Laboratory (1989)

Discusses the regulation of transportation of hazardous materials, the training of the transporters and emergency personnel, and how emergencies involving hazardous substances are handled.

Video Cassette (18 min)

HE 199.5 D3 T73

Treasures of the Great Barrier Reef.

WGBH Video (1995)

Explores the brilliant colors and extraordinary creatures of the Great Barrier Reef off Australia.

Video Cassette (60 min)

QH 95.55 G7 T73

The Trials of Life.

Turner Home Entertainment (1991)

This series utilizes advanced technology to reveal new discoveries of how animals meet the test of survival.

1. Arriving
2. Growing up
3. Finding food
4. Hunting and escaping
5. Finding the way
6. Homemaking
7. Living together
8. Fighting
9. Friends and rivals
10. Talking to strangers
11. Courting
12. Continuing the line

12 Video Cassettes (50 min ea)

QL 751 T75 vol. 1-12

Trinity and Beyond: The Atomic Bomb Movie.

Goldhil Video (1997)

A documentary film which chronicles the top secret, strange and visually compelling history and motivation for design, production and testing of atomic and hydrogen bombs by the United States.

Video Cassette (95 min)

QC 773.3 U5 T75

Tsunami: The Wave that Shook the World.

WGBH (2005)

On 12/26/04, a series of tidal waves killed thousands and devastated communities around the Indian Ocean. With around 100 tsunamis striking the world's coastlines each decade, NOVA investigates what made the recent event so powerful and catastrophic.

1 videodisc (ca. 60 min.)

GC222.I53 T78 2005

Turning Down the Heat.

Bullfrog Films, (c2000)

Profiles innovative and successful projects of the new energy revolution, showcasing alternative sources of power, which includes solar energy in Holland, Japan and California, biogas in Denmark and Vietnam, wind energy in Holland and India, and hydrogen fuel cells and ground source heat in Vancouver.

Video Cassette (50 min.)

TJ808 .T87 2000

Turning Points in the Physical Sciences.

Ambrose Video Pub. (2005)

A journey of discovery from ancient through classical science to the world of modern physics, relativity, chaos theory and quantum mechanics.

See online catalog for contents.

5 videodiscs (135 min.)

Q158.5 .T87 2005 1-5

The Tyrannosaurus Rex Guide.

Discovery Video (1996)

The latest scientific evidence and controversies reveal the world from T-Rex's point of view.

Video Cassette (50 min)

QE 862 S3 T87

The Ultimate Journey.

WGBH Video, c1996

Lennart Nilsson's microphotography takes a look at the developing human embryo, comparing it to embryos of other species and revealing its shared ancestry.

Video Cassette (57 min)

QM 601 U445

Understanding El Nino.

Films for the Humanities & Sciences (1998)

Presents information on the history and the negative and positive worldwide effects of El Nino.

Video Cassette (35 min)

GC 296.8 E4 U53

Understanding : Time.

Discovery Channel Education (2001)

Teaches the history of time and the math and science of it. Also discusses time travel and Einstein's theory of relativity.

1 Video Cassette (ca. 27 min.)

QB209 .U53 2001

Understanding Volcanic Hazards.

IAVCEI (1995)

Features images of erupting volcanoes and show how volcanic activity can affect people, their property, and the land on which they live. Focuses on ash falls, hot ash flows, mudflows, volcanic landslides, volcanic tsunamis, lava flows and volcanic gases.

Video Cassette (25 min)

QE 522 U53

Uinta Basin Section, Colorado Plateau.

GeoPhoto Publishing Co. (1989)

Discusses the geology of the Uinta Basin, which is both a structural and topographic basin in Utah and Colorado.

20 Slides

Guide

QE170.U4 U35 1989392994

The Universe. The Complete Season One.

A&E Television Networks (2007)

Part 1: Tour the surface of Earth's life-giving star. Mars may be the future of humanity - uses data collected from probes and robotic rovers. Scars on the planet's surface and in its fossil record illustrate the threat posed by meteorites, comets, and asteroids that routinely collide with Earth. Two and a half times the size of all the other planets in the solar system combined, and half a billion miles from Earth, Jupiter is a colossal riddle

Part 2: Our closest celestial neighbor, the moon is the only cosmic body on which human beings have ever set foot. Learn how the place we call home formed in one of the most volatile regions of the Milky Way. Circling around the Sun in speedy orbits, Mercury and Venus are rocky, dense, and intensely hot.

Part 3: Famous for its striking ring formations, Saturn is perhaps the most beautiful planet in the solar system. The Milky Way is only one of the over 100 billion galaxies thought to exist, and each is composed of as many as a trillion stars. The birth of a star is a spectacular event, as gravity brings together massive molecular clouds over millions of years to create these enormous galactic furnaces. The gargantuan planets Jupiter, Saturn, Uranus, and Neptune circle the edge of the Solar System.

Part 4: Gazing up from Earth, the Universe looks like a peaceful place where placid stars pass across the night sky. Could there be other intelligent life outside our solar system, with the space suggests that the conditions for the life may not be unique to Earth. Over 13 billion years ago, from a point smaller than the size of a single atom the universe was born, and it continues to expand with every passing second.

4 videodiscs (ca. 705 min.)

QB981 .U555 2007 1-4

The Universe Within.

WGBH Educational Foundation (1995)
Using microphotography to explore the hidden world inside the human body, this program covers three incredible team efforts: the coordination of muscles, bones, heart and circulatory system that makes Mike Powell the world's greatest long jumper; the digestive dynamo that turns a simple sandwich eaten by five-time Olympic gold medalist Bonnie Blair into raw energy for a blistering sprint down the ice; and the ultimate event--the development of a new human life inside track star Karen Hatchett.
Video Cassette (60 min)
QP 38 U55

The Unknown World.

WGBH Video (1996)
Lennart Nilsson's micro-photography introduces the viewer to the world of microscopic insects and microorganisms that live on and in our bodies and our homes.
Video Cassette (57 min)
QR 171 A1 U55

Unlocking Language.

Films for the Humanities & Sciences (1999)
A diverse group of experts--an evolutionary linguist, a neurologist, a geneticist, a neuropsychologist, a developmental cognitive neuroscientist, and an Oxford professor of communication--discuss the birth, development, and transmission of the mysterious phenomenon called language.
Video Cassette (29 min)
P 116 U55

Unlocking Language.

Films for the Humanities & Sciences, [2005]
"A diverse group of experts--an evolutionary linguist, a neurologist, a geneticist, a neuropsychologist, a developmental cognitive neuroscientist, and an Oxford professor of communication--discuss the birth, development, and transmission of language. Topics explored include language as an innately guided behavior in unborn babies, infants, and toddlers; the parts of the brain involved in language; the relationship between genes and language disorders; and the isolation of the Speech 1 gene"—Container.
1 videodisc (29 min.)
P116 .U55 2005

The Virus that Cures.

Films for the Humanities & Sciences (1998)
Presents the crisis facing modern medicine, as bacteria develop resistant strains to antibiotics that are commonly prescribed to fight disease and infection. The solution could lie in the Republic of Georgia, where a pre-antibiotic approach to infection is being researched, based on developing sewage viruses.
Video Cassette (50 min)
QR 342 V57

Viruses.

Unapix Consumer Products (1996)
Gallo's work with viruses fueled his interest in AIDS and led to his co-discovery of the HIV virus in 1984.
Video Cassette (44 min)
QR 360 V58

Vocational Technology & Safety Advances.

Chip Taylor Communications (2001)
News items about technological advances involving suits for protection against hazardous conditions, forklifts, printing presses, restraints in nursing homes, robots, and soil stabilization.
1 Video Cassette (28 min.)
T173.8 .A38 2001

Voices from the Past: Art and Science.

Mystic Fire Video [1990]

Series: Greek Fire

"Science": The Greeks asked the first scientific questions: is there a rational basis, an underlying simplicity to the world?

Quantum mechanics can look back to Pythagoras, who thought the hidden order revealed in the beauty of numbers; yet though quantum mechanics can predict much about the world, through the uncertainty principle it has also undermined ideas about the world that have dominated science since Aristotle.

Video Cassette (52 min)

Q127.G7 S45

Volcanic Rock Textures.

Michigan Technological University (1985)

Discusses characterization of pyroclastic and flow textures of unaltered volcanic rocks.

1. Flow Textures
2. Flow Textures 2
3. Flow Textures 3
4. Pyroclastic Rocks
5. Pyroclastic Rocks 2

5 Video Cassettes (3 hrs total)

QE 461 V63 tapes 1-5

Volcanism.

GeoPhoto Pub. Co (1989)

Presents examples of volcanic activity including shield volcanoes of the Hawaiian type, composite volcanoes of the Cascade type, cinder cones, miscellaneous cones, plug domes, intrusion, lava flows, pyroclastic debris, and lahars.

Slides

QE522 .V885 1989

Volcanoes of the Deep.

WGBH Boston Video (1999)

Discusses how sea life thrives on the ocean floor on superheated volcanic chimneys and shows a mission to use a submersible to bring volcanic chimneys to the surface.

Video Cassette (1 hr.)

GC87.6.V64 V64 1999

The Water Rules: A History of Water in the Las Vegas Valley.

KLVX Communications Group (1996)

Discusses the importance of water in the history of the Las Vegas Valley, history of water use there, the natural water cycle and the water use cycle.

Video Cassette (57 min)

Guide (40 p.)

GB705.N3 W37

Water, Water Everywhere and Sometime Ice and Steam.

Blue Sky Associates (1990)

Demonstrates the physical properties of water including the three phases of water: solid, liquid and vapor. Explains why the structure of the molecule causes ice to be less dense than liquid water. Tells how Fahrenheit devised his temperature scale.

Video Cassette (56 min)

QD 169 W3W37

The Way of Science.

Films for the Humanities (1995)

Explores the way of science at the end of this century, and the direction it is taking in helping us to know ourselves and to approach the big questions with new information and insight.

Video Cassette (57 min)

GN 281 H8487 vol. 4

The Way We Eat: What Food Means.

Learning Seed (2001)

Explores what role food plays in our lives. Discusses food as fuel, convenience, medicine, and social bond. Also looks at food and moods, food alienation, and future food.

Video Cassette (19 min.)

Guide (16 p.)

TX355 .W38 2001

Weather Extreme. Tornado.

Artisan Home Entertainment (2001)

Discusses the potential impact of really bad tornados on crowded metropolitan areas. Includes footage from past disastrous storms, eyewitness accounts, and computer animation

1 Video Cassette (55 min.)

QC955 .W42 2001

Weathering, Erosion and Soils.

GeoPhoto Pub. Co. (1989)

Depicts mechanical and chemical weathering in arid and humid environments and illustrates the effects of climate and rock type on soil and landform development.

36 slides + 1 guide (3 leaves)

QE570 .W42 1989

What's All This About Gallium Arsenide?

University Video Communications (1988)

Seymour Cray's lecture was the keynote address at the Supercomputing '88 conference held in Orlando, Florida, on November 15, 1988. He discussed the history of supercomputing and the evolution of the supercomputer industry including the history of his company, Cray Research, Inc., reviewed the development of the Cray-1 and Cray-2 and discussed the new role of gallium arsenide in the upcoming Cray-3 and Cray-4.

Video Cassette (70 min)

QC 611.8 G3 C73

What's In Our Air?

The Video Project (199-?)

Neighborhood groups are organizing to protect their children and themselves from toxics poisoning their air. This video shows how groups of citizens have succeeded in shutting down causes of air pollution.

1 Video Cassette (20 min.) + 1 sheet

TD883.2 .W43 1990

What's the Deal With Yucca Mountain?

State of Nevada Nuclear Waste Office

Discusses concerns that Nevada has with Yucca Mountain being used as a nuclear waste repository and with the transportation of nuclear waste through the state.

Video Cassette (16 min.)

2 Booklets

TD 898.12 N3 W32 1994

When the Levees Broke: A Requiem in Four Acts.

HBO Home Box Office (2006)

The world watched in horror as Hurricane Katrina hit New Orleans on August 29, 2005. Many were shocked, not only by the scale of the disaster, but the slow, inept and disorganized response of the emergency and recovery efforts. Structured into four acts, each dealing with a different aspect of the events that preceded and followed Katrina's catastrophic passage through New Orleans. Tells the heartbreaking personal stories of those who endured this harrowing ordeal and survived to tell the tale.

disc 1.

Act I (65 min.) ;

Act II (62 min.)

disc 2.

Act III (58 min.) ; Act IV

(70 min.)

disc 3. Next movement

Act V (105 min.) ; Water is

rising (8 min.)

3 videodiscs (ca. 256 min.)

HV636 2005.L8 W43 2006

When We Left Earth: The NASA Missions.

Discovery Communications, [2008]

Chronicles NASA's history, including the Mercury program, moon landings, and the first untethered space walk.

3 videodiscs (ca. 258 min.)

TL789.8.U5 W44 2008

White Light, Black Rain.

HBO Video (2007)

In August 1945, the world was transformed in the blink of an eye when American forces dropped atomic bombs on Hiroshima and then Nagasaki. The destruction was unprecedented and the bombings precipitated the end of World War II. Contains archival footage and stunning photography. Interviews are from both Japanese survivors and the Americans who believed that their involvement would help end a brutal conflict.

1 videodisc (86 min.)

D767.25.H6 W454 2007

Who Found the Missing Link? (Uranium)

Films for the Humanities (1991)

Tells the story of Lise Meitner and the work that led to the splitting of the atom, among a cast that included Max Planck, Leo Szilard, Albert Einstein and Otto Hahn who took credit for Meitner's work. The program traces the paths that led to controlled nuclear fission, and proves that great scientists are smart, but not necessarily honorable.

Video Cassette (26 min)
QC 790 W46

[Wilson] Edward O. Wilson: Reflections on a Life in Science.

Harvard University Press

Offers insight into the scientific process. Compares scientists to mythmakers and examines the role of imagination in scientific inquiry.

Video Cassette (65 min)
QH 31 W585 E39

Winds of Change.

Films for the Humanities & Sciences (1998)

See how 7 million years ago, as a result of India colliding with the Asian land mass, Africa became drier, and our ancestors were driven out of the forests onto the savanna. In Asia, this collision resulted in monsoon rains that became linked to the tides in the western Pacific. This comprehensive explanation details how any oscillation in this pattern can result in typhoons and crop failures from California to Kenya.

Video Cassette (50 min)
QE 511.4 W55

The World After Nuclear War.

Turner Broadcasting and The Center on the Consequences of Nuclear War

Main focus is on the Moscow Link, the exchange between scientists at the USSR Academy of Sciences and scientists at the Conference on the World After Nuclear War via satellite television.

Video Cassette (57 min)
U 263 W67

The World of Buckminster Fuller.

Mystic Fire Video (1971)

Shows the man, his motives, his ideas and inventions, and his belief that the utopia he envisioned is now within reach on our little spaceship called Earth.

Video Cassette (1 hr 25 min)
TA 140 F9 W67

The World of Chemistry..

Annenberg/CPB (1990)

1. The World of Chemistry
 2. Color
QD 31.2 W67
 3. Measurement: The Foundation of Chemistry
 4. Modeling the Unseen
QD 75.4 M4 W67
 5. A Matter of State
 6. The Atom
QC 173.3 W67
 7. The Periodic Table
 8. Chemical Bonds
QD 467 W67
 9. Molecular Architecture
 10. Signals from Within
QD 461 W77
 11. The Mole
 12. Water
QD 461 W772
 13. The Driving Forces
 14. Molecules in Action
QD 501 W67
 15. The Busy Electron
 16. The Proton in Chemistry
QD 502 W67
 17. The Precious Envelop
 18. The Chemistry of the Earth
QC 879.6 W67
 19. Metals
 20. On the Surface
TN 665 W67
 21. Carbon
 22. The Age of Polymers
QD 251.2 W67
- Annenberg/CPB (1990)
23. Protein: Structure and Function
 24. The Genetic Code
QD 431 W67
 25. Chemistry and the Environment
 26. Futures
TD 196 C45 W67
- 13 Video Cassettes (30 min ea program)

Wrestling the Mississippi.

Ambrose Video Publishing (1999)

Discusses floods on the Mississippi, the history of the river, how it has affected the people who live on its banks, and efforts to control it and keep it navigable.

Video Cassette (55 min)

GB1399.4.M72 W74 1999