

SCIENCE VIDEOS

DVD's

The Eyes of Nye:	Antibiotics Cloning Genetic Diversity Genetically Modified Foods
Turbulences	52 min NFB 2005
Greatest Discoveries with Bill Nye	Biology Chemistry Evolution Genetics Physics
Properties of Elements:	Periodic Table Guide available at http://www.libraryvideo.com
Turning down the Heat: New energy revolution	49 min. NFB of Canada, 1999 : This film addresses the crisis of global warming and offers renewable energy and energy conservation as economically viable solutions to climate change.

VHS

Bioethics / Xenografts / Genes of Risk taking	25 min. 2002 : Discussions and questions raised on these three issues
Chemical Foundation of Life	30 min. Defines "matter" and distinguishes between an atom, molecule, element, and compound, and describes how protons, electrons and neutrons are arranged into atoms. Other: properties of water, concepts of organic and inorganic, four large "molecules of life".
Cracking the Code of Life	120 min. (NOVA) Experience the drama of discovering the wonders of our world—from the miracle of life, to the top of the world and the depths of space, from the power of wild weather, to the marvels of technology, and more.
Cream of the Clones/Array of Life/Raising the Steaks	24 min. 2002 (1) Cloning (2) Sequence the human genome and what is gene microarray analysis (3) Synthetic fish and mean: scientists manipulating fish genes.
Digestion : Blood Circulation	50 min. Disney Educational Production, 1995, Bill Nye
Electric Circuits	30 Min. Design and analysis of the currents flowing in series and parallel.

Electrical Current	25 min. Disney Educational Productions, 1995, Bill Nye
Endocrine System, The	16 min. Human Body Series. : Lucid animation and live photography
Energy	25 min. Disney Educational Productions, 1995, Bill Nye
DNA: Blueprint of Life	30 min. Relates how past experiments demonstrated that instructions for producing inheritable traits are encoded in DNA.
(The) Environment : Program I	25 min. 1997 : Farming without Chemicals, Poisons and Food, The Last Maple Tree, The Natural Step and Oasis
Food Chains	14 min. Follow a food chain from undersea kelp forests through primary and secondary consumers.
Forensics : Genes	50 min. Disney Educational Productions, 1998, Bill Nye
Freshwater	14 min. Shows the different types of organisms that live in both standing and running waters. It details the limiting factors such as temperature, light, current and concentration of oxygen that determine the kind of organisms that live in each of these communities.
Greenhouse Effect	20 min. Examine the world's changing climate, recognize the impact of the greenhouse effect, and see what steps are being taken to counter global warming with this informative program.
Light and Color	25 min. Disney Educational Productions, 1995, Bill Nye
Light and the Electromagnetic Spectrum	14 min. The relationship between light and other forms of electromagnetic radiation – cosmic rays, gamma rays, x-rays, ultraviolet and infrared rays, radio waves and light waves

Light Optics	25 min. Disney Educational Productions, 1995, Bill Nye (with Penn and Teller)
Macroevolution	30 min. 1996 : Lists what biologists accept as evidence to support the theory of evolution and explains how paleontology, comparative morphology, comparative biochemistry, and other techniques and observations are used to reconstruct the past. Identifies the principal organisms associated with the five geologic eras.
Meteorites, Asteroids and Comets	20 min. These small bodies wander throughout our solar system and contribute tons of material that bombards the Earth every day. Some may have altered the course of life on Earth.
Microbes and Human Diseases	30 min. 1999 : How microbes come into contact with humans, and the many factors leading to disease outbreaks around the globe, are examined here. Students learn about current efforts to track infectious disease and the considerations necessary to control disease worldwide.
Microbial Diversity	What is the relationship between bacteria, archaea and eukaryote branches of the tree of life, with their startling variety of organisms?
Microevolution	30 min. Outlines the major elements of the theory of evolution by natural selection, and identifies the ideas and observations that influenced Darwin as he developed the theory. Describes mutation, defines the term species
Molecular Architecture	30 min. University of Maryland and the Educational Film Center, 1989 : Shows how the shape of molecules governs their chemistry. Highlights: shapes of molecules, fats and oils, and optical isomers.
Molecules in Action	30 min. 1989 : Looks at molecules during chemical reactions and the role that catalysts play in the large-scale industrial synthesis.
Motion	15 min. 1995 : Describes what movement means and how everything, no matter how stationary in appearance, is actually moving. Illustrates and explores varieties of trajectory, as well as velocity. Examines the influence of mass and gravity on motion.

Muscular System, The PSE 4U	12 min. Various types of muscle tissue, differences between voluntary, involuntary and cardiac muscles, differences in the chemistry and functions of fast-twitch and slow-twitch muscle fibers.
Nervous System, The	14 min. 1993 : Explores the nervous system, the biochemical communications network of the human body.
Origin of Modern Astronomy, The	23 min. Meet the people whose ideas contributed to our understanding of the infinite universe, scientist from the early Greek Pythagoras to modern-day Einstein.
Periodic Table, The	19 min. 2000 : An in-depth examination of the Periodic Table of Elements from both historical and forward looking perspectives:. Includes: Founders of the table, experiments, brief look at how certain elements are used in daily life.
Population Patterns and Technology: rising birthrate...	20 min. 1989 : Technologies in medicine, nutrition and hygiene have greatly increased the rate of population growth. Investigates how the increase in world population has produced pressure on material and energy resources.
Power of Metabolism	30 min. Includes: two laws of thermodynamics; reorganization of atoms; enzymes; properties of acids, bases and buffers; energy-requiring and energy-releasing; biochemical reactions.
Properties of Elements	23 min. (Teachers guide included)
Proteins: Building Blocks of Life	30 min. States the differences between DNA and RNA: structure, function, changes and experiments.
Reaction Rates and Equilibrium	20 min. 1983 : Certain fundamental factors influence the rates at which chemical reactions take place. Catalysts and their alternative reaction paths, and the role of equilibrium in the chemical industry are also included in the study of influential factors on chemical reactions.

Secrets of Life	60 min. A brief history of genetic science from Darwin's theory of evolution through the discovery of DNA, and the invention of gene splicing. Includes interviews and computer animation.
Skeletal System, The [2nd Edition	12 min. Detailed animation and x-ray motion pictures trace the structure of the skeleton from head to foot, examining the bones in each region of the body and their contribution to the body as a whole. Includes animation and scene of sports activities.
Static Electricity	25 min. Disney Educational Productions, 1995 : Bill Nye
Succession	16 min. What happens to a habitat when it is disturbed and its old community of plants and animals dies?
Superbugs / Patent Pending / Counting genes	25 min. 2002 (1.) We are under attack by bugs....Scientists are studying the genetics of bacteria and trying to find out how to stop the invasion. (2.) Does the patenting of genes protect intellectual property, or arrest vital disease research? (3.) Some say 30,000, some say 40, and others have said the human genome contains as many as 100,000 genes.
Wetlands	50 min. Disney Educational Productions, 1996 : Bill Nye
What is Electricity?	15 min. 1995 : Presents an overview of naturally occurring electricity found in nature and the role of matter and atoms in electrical charges.
Window to Creation, A	60 min. How did the universe begin? And how did it develop to its present form? Interviews with professors and scientists and NASA are included.
Biodemocracy: Making a difference	38 Min. National Film Board of Canada, 2003 : A compelling critique of the biotech industry and genetic engineering. How science is being done, lack of labeling, government funding and the lack of risk assessment. Featuring David Suzuki

	and Geneticist, Pat Venditti and others.
Clone Inc.	51 min 2001. National Film Board of Canada : Takes a critical look at current advocates of human cloning. Biologists, geneticists, a psychoanalyst, a philosopher and other experts discuss this moral dilemma and raise questions for a crucial debate.
Crapshoot	53 min. 2003, National Film Board of Canada : Filmed in Italy, India, Sweden, the United States and Canada this bold documentary questions whether the sewer is actually compounding or waste problems....Does our need to dispose of waste take precedence over public safety? What are the alternatives?
Genetic Takeover	52 min. National Film Board of Canada, 1999 : Casts a sober look at a potentially explosive situation. In response to consumer demands, many European and Asian countries have instituted mandatory labeling of genetically modified foods. North America, however, has been slow to react. In their relentless fight for profits, the industrial giants seem willing to ignore basic safety rules.
Something in the Air	25 min. National Film Board of Canada, 2001 : PEI has the highest rate of hospital admissions for asthma in Canada, and many never leave home without an inhaler. Hanging over the farmers' fields, reaching into every city and town, is an invisible cloud of dangerous poisons.