Course of Study	Media Title /SegmentTitle	Brief Description	Strand or Unit link	Other resources (ie. quiz, hand- outs)	URL
SNC2P/2D	Changes in the Climate- Biomes: Land of the Inuit	Climate changes are affecting hunting, food availability, and the balance in Inuit culture. (2004)	Earth and Space Science- climate (D1.1)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?quidAssetId=a476f34 7-fada-41b9-bb71-93f99bee8ac8
SNC2P/2D	Simply Science: Weather Systems	Air currents e.g. convection current, Coriolis Effect; Water currents; other weather phenomena A meteorologist at a weather forecasting center explains how data is collected for weather forecasts, and how storm activity can be predicted. (1998)	Earth and Space Science- climate (D2.1)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?quidAssetId=4e687b6 d-2067-4aea-b7ab-8a10791745e6
SNC2P/2D	Energy Efficiency in the Home	How to control heat loss. The materials and gas used to construct thermal efficient windows are described. A hot water heater that doubles as a home furnace is vastly more efficient than a separate hot water heater and furnace combination. (1998)	Earth and Space Science- climate (D1.2)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?quidAssetId=EFD730 9B-2D5D-486B-96FE- 9713F77FDD06

SNC2P/2D	What is the Greenhouse Effect?	Global Warming: Action and Reaction(2004)	Earth and Space Science- climate (D2.2)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=BA7A93 1D-28D7-4F84-99A1- 316FC31C8382
SNC2P/2D	Testing the Greenhouse Effect	Sscientists decide to build a set of greenhouses to test whether such gases as carbon dioxide and methane really do cause global warming.(2008)	Earth and Space Science- climate (D2.2)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?quidAssetId=FB9820 F4-33F0-498B-95FE- 945C6275E82F
SNC2P/2D	Great Books: The Origin of Species (51:00)	Darwin's theory described	Evolution	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=AE5EF6 E3-2EF4-46C1-B1BD- 802ED3F9A84D
SNC2P/2D	Biomes: Wild Arctic	Explore the close relationship the creatures of the Arctic have with their fragile ecosystem.	Ecology, Earth Science, and Biology	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=B8ABD2 35-0A48-4994-AEB2- 327445AF426C

SNC2P/2D	Melting Glaciers in Alaska	A crew travels to Haines, Alaska, to study Davidson's Glacier. The glacier is melting at an alarming rate due to global warming and rising global temperatures. (2009)	Earth and Space Science- climate (D1.1)(D2.4)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=C05EAA 99-B5BB-4A06-8FB8- D6A60ECF6345
SNC2P/2D	Clouds and Patterns of the Weather	This dramatic video reviews how clouds are formed, illustrates different types of clouds, and explains what these different types indicate in terms of weather patterns.	Earth and Space Science- climate (D1.1)(D2.4)	Teacher`s Guide, quiz, blackline master (labs)	http://player.discoveryeducation.co m/index.cfm?guidAssetId=38C93A FF-16D4-415E-BF5E- E14FC1C2567
SNC2P/2D	Weather Smart: Thunderstorms	Through dynamic time-lapse videography, students learn about the process of convection and how it turns cumulus clouds into cumulonimbus clouds. Spectacular lightning images show the electrical power inside storms.	Earth and Space Science- climate (D1.1)(D2.4)	Teacher`s Guide, quiz, blackline master (labs)	http://player.discoveryeducation.co m/index.cfm?guidAssetId=57889E F0-8B43-4850-8A4A- 14A27B497E50

SNC2P/2D	Vision	How does eye work - Rods and cones carry out chemical reactions for sight. The eye tracks objects as a series of points. The optic nerve connects the retina to the brain. The brain perceives distance, speed, and three-dimensional objects. The brain can be sometimes be fooled, as in the case of an optical illusion. How does a camera captures images?(2004)	Physics: Light and Geometric Optics (E1.1)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=657E1B 75-980F-4C4F-B8ED- 63C4187591E0
SNC2P/2D	Eyeglasses (Article)	Corrective Eyeglasses, Protective Eyeglasses, Contact Lenses and Implanted Lenses, e Care Specialists	Physics: Light and Geometric Optics (E1.1)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=C7996A 1B-9280-48AF-B1A8- DD905933D3A4
SNC2P/2D	The Optical (Light) Microscope	The most common type of microscope is the optical microscope. This video shows and describes the parts of a compound optical microscope and explains how it works. (1989)	Physics: Light and Geometric Optics (E1.2)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=745C63 95-BC60-4D6C-BE19- B46FBFB32F31

SNC2P/2D	Exploring Light and Color- mirrors and lenses:light technologies	The electromagnetic spectrum, the sources of light, the properties of light, reflection, refraction, lenses, and how human and animal eyes work. Lasers and fiber optics are also discussed and demonstrated. (1993)	Physics: Light and Geometric Optics (E1.1)	Teacher`s Guide, quiz, blackline master (labs)	http://player.discoveryeducation.co m/index.cfm?guidAssetId=DA3000 F8-3BBC-4903-82FA- 8E66F872B2C7
SNC2P/2D	Light: Optics and Electricity	Principles such as refraction, reflection, and the behavior of light as it passes through lense; theory of electromagnetism; speed of light; developments in electricity and telecommunications that have transformed our lives. The refraction of light through convex and concave lenses is illustrated and discussed. (2006)	Physics: Light and Geometric Optics (E2.1)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=5F49FD EE-8045-442E-B0B4- C50B055C8A38
SNC2P/2D	Reflected Light and Mirrors	Images from flat mirrors are virtual images. Curved mirrors are either concave or convex. The boundaries between materials produce angles of incidence and refraction. Light striking the boundary of a substance at an angle greater than the critical angle is reflected. (1996)	Physics: Light and Geometric Optics (E2.1)(E3.6)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=E02B12 E5-175D-4563-9BAF- 68ACF3E01BA5

SNC2P/2D	Light, Lenses, and Lasers	Waves and their characteristic properties; light is the visible part of the electromagnetic spectrum consisting of a variety of waves from radio waves to cosmic rays; use of concave and convex lenses and the concepts of diffraction and polarization.(1996)	Physics: Light and Geometric Optics (E3.1)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=80B999 B4-DA22-452C-92F1- 9093871CCE14
SNC2P/2D	Rainhows	What a rainbow is and how it is formed.	Physics: Light and Geometric Optics (E3.8)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=FF91E5 76-C104-47A9-BFB8- B95E3B03A941
SNC2P/2D	Developments in Reproduction: Cross- species Cloning	The Power of Genes - Cloning (2004)	Biology: Tissues, Organs, and systems of living systems (B1.1)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?quidAssetId=7CFD47 CE-0455-43E3-98D2- 0D08ABA356D

SNC2P/2D	Microbiology - research on embryonic stem cells	Division of Cells —Examine the different processes involved in cell division and see how new research on embryonic stem cells may create changes in the future of medical science. Changing Food to Energy — Learn about mitochondria and see how your body converts food to useable energy. Controlling Systems: Hormones and Nerves — See how chemicals help your nervous system work and learn about naturally occurring hormones in the human body. Connected Systems: Biodiversity, Ecosystems, and Ecology — Explore the many connections between the humans, plants, and animals coexisting on planet Earth. (2006)	Biology: Tissues, Organs, and systems of living systems (B1.1)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?quidAssetId=4050BD A5-8093-4259-95A8- 02A8E6961BD
		An ultrasound uses high frequency			http://-leavedingeria
SNC2P/2D	Imaging Technology: Ultrasound	sound waves to create an image of the fetus. Ultrasound can be used to identify problems with pregnancy.(1997)	Biology: Tissues, Organs, and systems of living systems (B1.2)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=4ED36C 4D-1DB2-4325-BB4A- B1E3909BA033
SNC2P/2D	X-Rays and Cat Scans	A strange object was found embedded in Kennewick Man's pelvis. A cat scan revealed that it was an ancient stone spear point that was commonly used between 5000 and 9000 years ago.(2004)	Biology: Tissues, Organs, and systems of living systems (B1.2)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=A8D59B 19-64E1-4B0A-A289- 7BA6365C481E

SNC2P/2D	Cells - blood, skin, cancer	cell membrane nucleus, which holds the cell's DNA; organelles that carry out the cell's specific task; reproduce by mitosis, or cell division: (2002)	Biology: Tissues, Organs, and systems of living systems (B2.3)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=F48C42 3F-F866-4169-A9E1- 12210C867DF4
SNC2P/2D	cell division	Genes are coiled in chromosomes in the cell's nucleus. Mitosis produces body cells. Meiosis produces cells involved in reproduction.(2002)	Biology: Tissues, Organs, and systems of living systems (B2.1)(B3.1)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=BF72CE A5-C2B1-4AB0-AE17- 1A6BC2B97621
SNC2P/2D	Human Body Systems: The Circulatory System	This video explains the circulatory system and describes, through the use of 3-D computer graphics the workings of the heart, blood, arteries, veins, and capillaries.(1997)	Biology: Tissues, Organs, and systems of living systems (B3.4))	Streaming Video	http://player.discoveryeducation.co m/index.cfm?quidAssetId=800CA6 76-82D2-4990-888A- DC098663721F
SNC2P/2D	Human Body Systems: The Respiratory System	Through the use of computer graphics and diagrams, this streaming video explains the respiratory system and all of its organs and parts.(1997)	Biology: Tissues, Organs, and systems of living systems (B3.4))	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=50EA33 0C-DFE3-4443-B142- 111DD7DB0764

SNC2P/2D	Chemistry - intro; crime solving;fuel cells; fire, smell	Properties of matter and how substances combine and react Chemistry is all around us and is a part of our lives everyday.(2002)	Chemistry: Chemical Reactions (C1.1)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=9D2AF5 57-176B-409C-AD24- FF6C26D26EFF
SNC2P/2D	Legacy of an Oil Spill - super tanker Exxon Valdez spill	Provides students with a scientific perspective on the long-term effects of the nation's worst oil spill on the wildlife and habitats of Prince William Sound.(2002)	Chemistry: Chemical Reactions (C2.1)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=632C6D 88-2685-41A8-8277- 506C9DFE36C4
	Chemical Reactions- balancing, types, reaction rates	Simple everyday chemical reactions; chemical equations; how to balance chemical equations via colorful animation. Synthesis, decomposition, and replacement reactions are described. The energy dynamics of chemical reactions is conveyed, while explaining endothermic and exothermic reactions. Students will investigate the influence that concentration, surface area, temperature, and catalysts have on an actual reaction.(1998)	Chemistry: Chemical Reactions (C2.1)(C2.2)(C2.3)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=12FC25 F0-9753-422B-9881- 78970B8DB4A6&

SNC2P/2D	Naming Compounds and Balancing Equations	The law of conservation of mass is used in balancing equations. IUPAC rules are used to name ionic and molecular compounds.(1998)	Chemistry: Chemical Reactions (C2.1)(C2.2)(C2.3)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=F54833 3B-949F-48AD-AFC2- 7A3C9D13FE4D
SNC2P/2D	The pH Scale	A definition of pH is given and pH is calculated. Students demonstrate the use of pH meters and examine the significance of pH in a variety of household products as well as at a swimming pool, and with a food scientist. (1998)	Chemistry: Chemical Reactions (C3.7)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=80AAA6 C4-F4E7-4EDA-85A2- 4704F1C65E06
SNC2P/2D	Elements of Chemistry: Acids, Bases, and Salts	Acids and bases are two different classes of compounds that are fundamental to the functioning of our world. When they combine, acids and bases produce salts. Students explore the chemistry of acids and bases and focus on the pH scale, an ingenious measurement of the amount of acidity and basicity of compounds. The program concludes by illustrating how the level of acids and bases contribute to processes as varied as acid rain and the functioning of the cells in our bodies. (2003)	Chemistry: Chemical Reactions (C3.7)	Streaming Video	http://player.discoveryeducation.co m/index.cfm?guidAssetId=F87F5C 05-EDC4-40EF-92E0- D62BC7EE66D6