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WEB



Science Videos for Adults

group of adult education science teachers and I have been reviewing science instruction videos for adult learners in a LINCS Science Community of Practice Micro-group. We have found several science video websites and many specific instructional videos that, although not specifically made for adult learners, are engaging and suitable for adults who need to learn science, for example, in preparing for a high school equivalency test. Equally important, we have learned about how to use science videos.

Just watching videos, regardless of their quality and engagement, does not necessarily increase knowledge. Even when students say they have learned a lot from watching a video, some research shows they have not. They watch passively, looking for confirmation of what they think they already know. A better way to make use of videos is to begin by asking students what they know, and then recording that on a flipchart or chalkboard, or, for the technology-inclined, using Coggle on an Electronic whiteboard.² Then, after showing the video, return to the flipchart, chalkboard or electronic whiteboard, and ask students what they would like to change, what they have learned or are not as sure about.

Here are some recommended science video collections, and for some of these, some recommended science categories or specific videos:

Reviewed by David J. Rosen

> Newsome Associates

Annenberg Science Videos

http://www.learner.org/resources/browse.html?d=6

- The Brain: Teaching Modules http://www.learner.org/resources/series142.html
- Earth Revealed http://www.learner.org/resources/series78.html
- The Mechanical Universe...and Beyond (Physics) http://www.learner.org/resources/series42.html
- Planet Earth http://www.learner.org/resources/series49.html
- The World of Chemistry http://www.learner.org/resources/series61.html

CK-12 Science

http://www.ck12.org

CK-12 Foundation is a non-profit that creates and aggregates high quality curated STEM content. The web site has sections for teachers and for students. It offers videos, audio files, images, text, quizzes and interactive learning objects

- Earth Science http://www.ck12.org/earth-science/
- Life Science http://www.ck12.org/life-science/
- Physical Science http://www.ck12.org/physical-science/
- Biology http://www.ck12.org/biology/
- **Chemistry** http://www.ck12.org/chemistry/
- Physics http://www.ck12.org/physics/

Curriki http://www.curriki.org

Davidson University Science Videos Collection

http://www.bio.davidson.edu/courses/movies.html

Education on Demand

http://edexcellence.net/wordpress/education-on-demand

Science Video categories

- Dinosaurs and other prehistoric animals
- Fish and other aquatic animals
- Insects
- Frogs and other amphibians
- Reptiles
- Birds
- Mammals
- Human evolution
- Earthquakes and volcanoes
- Outer space
- Systems of the human body

Gooru Learning http://www.goorulearning.org

Hewitt Drew-it! Physics series channel on YouTube

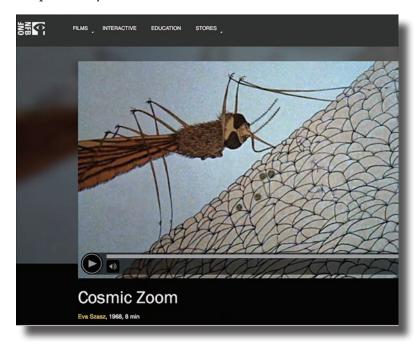
https://www.youtube.com/results?search_query=hewitt+drew+it+channel

How Stuff Works http://www.howstuffworks.com/ (Choose Health and/or Science)

Jefferson Lab Science Series http://education.jlab.org/scienceseries/archive.html Science Series Video Archives—79 science videos

Khan Academy Science Videos https://www.khanacademy.org/#library-section

National Film Board of Canada Sciences Films https://www.nfb.ca/ Search for "Science" and specifically for "Cosmic Zoom"



Nature (PBS Video) http://video.pbs.org/program/nature/

NEOK-12 http://www.neok12.com/

Good videos on enzymes, proteins, carbohydrates and digestion

Nova (PBS Video) http://video.pbs.org/program/nova/

OER Commons Video Resources in OER STEM Science User Group

https://www.oercommons.org/groups/oer-stem-science-user-group/47/

(Search for these videos and others)

- 1964 Alaska Earthquake
- Monarch Butterfly Migration
- Botany of Desire—Monoculture
- Physics—Introduction to Waves
- Health—How do cancer cells behave differently from healthy ones?
- Reactions in Chemistry
- Biology: Taxonomy and the tree of life
- Sex determination: more complicated than you thought
- How simple Ideas lead to Scientific Discoveries

Healthcare and Medicine (from OER Commons)

- Khan Academy Science Videos. Over 200 to choose from
- Viruses https://www.oercommons.org/courses/biology-viruses

Smithsonian Channel http://www.smithsonianchannel.com/sc/web/home

TV411 http://www.tv411.org/science

A collection of free, professional quality online "video magazine" articles on science for adult basic skills learners with the theme of cooking.



Untamed Science http://www.untamedscience.com/ Biodiversity and biology topics

Veritasium

http://www.youtube.com/user/1veritasium

http://www.pinterest.com/carlosportela/veritasium/

Nearly 175 videos, apparently uncategorized. Described in Wikipedia as follows: "Veritasium is an educational science channel on YouTube created by Derek Muller.... The videos range in style from interviews with experts such as Physics Nobel Laureate, 2011, Brian Schmidt,[1] to science experiments, dramatizations, songs, and interviews with the public to uncover misconceptions about science, a hallmark of the channel."

WatchKnowLearn.org http://www.watchknowlearn.org/Category.aspx?CategoryID=86 Science videos in these categories: Astronomy and Space, Earth Science, Chemistry, Environmental science, Life sciences, Physics, Scientific inquiry, Scientists and inventions, Underwater volcanoes, Science-Current events science documentaries

We Are New York http://www.nyc.gov/html/weareny/html/home/home.shtml Adult English language learning videos, some of which have health-related themes.

David J. Rosen is an education consultant in the areas of adult education, distance education, and technology.

¹LINCS is the U.S. Department of Education/OCTAE-sponsored Literacy Information and Communications System. Among its services are free public adult education discussion forums in sixteen topic areas. For more information, see http://www.lincs.ed.gov Also, a complete list of the science videos is available at http://tinyurl.com/pe5hb4a

²For more information about Coggle, a free mind-mapping app, see my Tech Tips for Teachers blog article at http://techtipsforteachers. weebly.com/blog/watch-a-video-and-make-a-mind-map-with-coggle