

Communication & Education Resources

Resources for youth highlighted in orange (elementary/ middle school age)

Climate Change 101

Videos

National Academy of Sciences

Climate Change: Lines of Evidence

- Ch. 1: What is Climate? (3min 37sec) <http://www.youtube.com/watch?v=qEPVyrSWfQE>
- Ch. 2: Is Earth Warming? (4min 37sec) <http://www.youtube.com/watch?feature=endscreen&v=-luVzcp39rs&NR=1>
- Ch. 3: Greenhouse Gases (2min 2sec) <http://www.youtube.com/watch?v=3JX-ioSmNW8&feature=endscreen&NR=1>
- Ch. 4: Increased Emissions (5min 20sec) <http://www.youtube.com/watch?v=nlu21CNd34Q&NR=1&feature=endscreen>
- Ch. 5: How Much Warming? (5min 5sec) http://www.youtube.com/watch?annotation_id=annotation_886142&feature=iv&src_vid=nlu21CNd34Q&v=hVvzVs1AKGY
- Ch. 6: Solar Influences (2min 46sec) http://www.youtube.com/watch?annotation_id=annotation_450335&feature=iv&src_vid=hVvzVs1AKGY&v=0V2HYZbFLn8
- Ch. 7: Natural Cycles (4min 53sec) http://www.youtube.com/watch?annotation_id=annotation_175958&feature=iv&src_vid=0V2HYZbFLn8&v=2_10jtPCjQw

United Nations

- Climate Change: The State of the Science (4min 04sec) https://youtu.be/_EWOrZQ3L-c
- The Climate Change Connection (2min 18sec) <https://www.youtube.com/v/uBOBN9QGueQ?autoplay=1&rel=0>

Environmental Protection Agency (EPA)

- **Climate Change Basics (2min 48sec)** <http://www3.epa.gov/climatechange/kids/index.html>

National Aeronautics and Space Administration (NASA)

- Animation of Temperature Data from 1880-2011 (0min 26sec) https://youtu.be/OtY8DpA_XNE

National Oceanic and Atmospheric Administration (NOAA)

- History of carbon dioxide from 800,000 years (1min 01sec) <https://youtu.be/SXHDwdd7Tf8>

Other Resources

- Climate vs. Weather (Trend and Variation) (1min 7sec) <https://youtu.be/e0vj-0imOLw>
- Climate Wisconsin: Stories from a State of Change <http://climatewisconsin.org/>
- **What is Climate Change? (2min 37sec)** <https://www.youtube.com/watch?v=ko6GNA58YOA>



Interactive Online Tools

California Energy Commission

- Cal-Adapt (explore climate projections for California)
<http://cal-adapt.org/>

Graphics

United Nations Environmental Programme (UNEP)

- GRID Graphics Library- Climate <http://www.grida.no/graphicslib/tag/climate>

Curriculums & Student Resources

Environmental Protection Agency (EPA)

- **Climate Change Kids (Middle)** <http://www3.epa.gov/climatechange/kids/index.html>

National Aeronautics and Space Administration (NASA)

- **Climate Kids (Elementary)** <http://climatekids.nasa.gov/>

National Estuarine Research Reserve System (NERRS)

- **Climate Extensions (Middle School)** <http://estuaries.noaa.gov/teachers/climate.aspx>

National Wildlife Federation (NWF)

- **Climate Classroom Kids (Elementary)** <http://climateclassroomkids.org/>
- **Climate Classroom (Middle- High School)** <http://climateclassroom.org/>

Prince William County Public Schools

- **Climate Change Live (K-12)** <http://climatechangelive.org/index.php?pid=180>

USDA Southwest Regional Climate Hub

- **Climate Change and the Water Cycle (Middle- High School)**
<http://swclimatehub.info/education/climate-change-and-water-cycle>

Coastal & Ocean (including Sea Level Rise)

Videos

United Nations

- Adaptation to Sea Level Rise (3min 18sec) <https://youtu.be/cgyVzeHTQtY>
- Blue Carbon (2min 08sec)
https://www.youtube.com/watch?feature=player_embedded&v=4fNW8spFS_o

Monterey Bay Aquarium

- **Change for the Oceans (1min 24sec)** <https://youtu.be/vt0riKQTJQ0>

National Aeronautics and Space Administration (NASA)

- **Climate Tales** <http://climatekids.nasa.gov/climate-tales/>
 - Episode 1: Will our heroes ever find their way home?
 - Episode 2: Can our heroes save the precious plankton?

Other Resources

- **Science Rap- Sea Level Rise & Coastal Flooding**
<https://www.youtube.com/watch?v=N7X6xRAYJus&index=6&list=PLvgILFwoRX2min-PEDNXfk25KULkKfy7S>

Interactive Online Tools

National Oceanic and Atmospheric Administration (NOAA)

- Sea Level Rise Viewer (resource for visualizing sea level rise)
<http://coast.noaa.gov/digitalcoast/tools/slr> (introduction)
<http://coast.noaa.gov/slr/> (SLR viewer)

Freshwater

Videos

Climate Education Partners: San Diego

- Water & Climate Change in San Diego (3min 11sec) <https://youtu.be/VYU2hRj8wjY>

Other Resources

- **Science Rap- Drought** <https://www.youtube.com/watch?v=zvdIhUAyaV4>

Radio

Southern California Public Radio

- Future of Water series <http://www.scpr.org/issues/future-of-water>

Heat

Videos

Climate Education Partners: San Diego

- Heat Waves & Energy Use in San Diego (2min 16sec) <https://youtu.be/22H-LnfnPQ>

Wildfires

Videos

Climate Education Partners: San Diego

- Wildfires & Drought in San Diego (2min 23sec) <https://youtu.be/pXNZZoyyYkYA>

Infographics

Union of Concerned Scientists

- Wildfire Infographic
http://www.ucsusa.org/global_warming/science_and_impacts/impacts/infographic-wildfires-climate-change.html#.V1bvGb6_b22

Wildlife

Videos

Ted Ed

- Evolutionary Adaptation to Climate Change https://youtu.be/ZCKRjP_DMII

Association of Zoos & Aquariums

- Climate Change & the Monarch Butterfly
<https://www.youtube.com/watch?v=R5MEFAW6fzw&feature=youtu.be>

Communication Guidance

Climate Interpreter

- <http://climateinterpreter.org/>

National Network of Ocean and Climate Change Interpreters (NNOCCI)

- <http://trnerr.org/climate-change-communications-training/>

Skeptical Science

- <http://www.skepticalscience.com/>