

Humans and the Environment CLIMATE CHANGE Unit – approved Internet research sites:

ALL STUDENTS *MUST VISIT*

- 1) <http://www.chesapeakeedata.com/changingchesapeake/>
- 2) **ONE (1) of the CARBON CYCLE web pages, AND**
- 3) **AT LEAST TWO DIFFERENT CLIMATE CHANGE WEBSITES FOR THEIR RESEARCH.**

Carbon Cycle:

Carbon Cycle Animation (No longer available)

<http://www.epa.gov/climatechange/kids/basics/today/carbon-dioxide.html>

Carbon Dioxide (click on the ten word list next to the diagram)

http://www.kscience.co.uk/animations/carbon_cycle.htm

The Carbon Cycle

<https://www.youtube.com/watch?v=nzImo8kSXiU>

The carbon cycle (World Meteorological Organization - WMO)

https://www.youtube.com/watch?v=E8Y6L5TI_94

ES0106 Observe an animation showing evidence of the carbon cycle.

http://www.classzone.com/books/earth_science/terc/content/visualizations/es0106/es0106page01.cfm?chapter_no=visualization

Climate Change:

Climate Change (Read The Basics. Then, click on the links to *What is Climate Change, Greenhouse Gases, Impacts on Weather, Health Effects, Take Action.*

<https://kidsenvirohealth.nlm.nih.gov/topic/003/climate-change/>

Climate Kids: NASA's Eyes on the Earth

<http://climatekids.nasa.gov/>

EPA Climate Change Kids Site (No longer available)

<http://www.epa.gov/climatechange/kids/index.html>

Climate Change Site (No longer available)

<https://www3.epa.gov/climatechange/>

U.S. Geological Survey Water Science for Schools and Students <http://water.usgs.gov/edu/watercycle-kids.html>

Methane

Methane vs. Carbon Dioxide: A Greenhouse Gas Showdown

<http://www.onegreenplanet.org/animalsandnature/methane-vs-carbon-dioxide-a-greenhouse-gas-showdown/>

Natural Gas: Methane's contributions to global warming

<http://www.greenpeace.org/usa/global-warming/issues/natural-gas/>

Arctic Methane Emissions 'Certain to Trigger Warming'

<http://www.climatecentral.org/news/arctic-methane-emissions-certain-to-trigger-warming-17374>

Hydraulic Fracturing:

The Fracking Truth

https://www.youtube.com/watch?v=d4vJTpK_sxQ

Facts About Fracking

<http://www.livescience.com/34464-what-is-fracking.html>

Green Revolution

http://www.nsf.gov/news/special_reports/greenrevolution/

What is fracking and why is it controversial?

<http://www.bbc.com/news/uk-14432401>

Pipelines

Salem Twp, Westmoreland Twp PA pipeline explosion investigation / Executive Summary

<http://williamahuston.blogspot.com/>

Compressor Stations

Myersville Citizens for a Rural Community – Health Effects <http://mcrCmd.org/id22.html>

Liquid Natural Gas Terminals

Calvert Citizens for a Healthy Community – Top 5 Threats <http://www.calvertcitizens.org/top-threats.html>

Chesapeake Climate Action Network – <http://chesapeakeclimate.org/maryland/covepoint/>

Dominion Resources (Click on their Environmental link)

<https://www.dom.com/covepoint>

Sea Level Rise

Infographic: Sea level rise

http://climate.nasa.gov/climate_resources/125/

Global Sea Level Rise Map

<http://geology.com/sea-level-rise/>

Surging Seas: sea level rise analysis by Climate Central <http://sealevel.climatecentral.org/>

Sea Level Rise and Coastal Flooding Impacts

<https://coast.noaa.gov/slr/>

Renewable Energy

Energy Sources

<http://www.eia.gov/kids/energy.cfm?page=2>

Solar Energy

http://www.cleanlineenergy.com/sites/cleanline/media/resources/students/renewable/Solar_Energy_InfobookMiddle_School.pdf

Wind Energy

http://www.cleanlineenergy.com/sites/cleanline/media/resources/students/renewable/Wind_Energy_InfobookMiddle_School.pdf

Geothermal Energy

<http://www.alliantenergykids.com/energyandtheenvironment/renewableenergy/022401>

Hydropower

[https://www.schooltube.com/video/3816ffe2cccc49dabb99/How%20Hydropower%20Works%20\(Hydroelectricity\)](https://www.schooltube.com/video/3816ffe2cccc49dabb99/How%20Hydropower%20Works%20(Hydroelectricity))

Miscellaneous Resources

NASA Global Climate Change Resources (various links to graphics, video and animations)

<http://climate.nasa.gov/resources/graphics-and-multimedia/>

Resource Use

Natural Resource Distribution Maps (use maps on right hand side) <http://www.eia.gov/maps/>

SHALE PLAY Natural Gas Drilling in Pennsylvania <http://stateimpact.npr.org/pennsylvania/drilling/>

DRILL, BABY, DRILL MAP

<http://shalebubble.org/dbd-map/>

Other materials are available as separate Adobe Acrobat documents on our classroom website

<http://mrsmorin.weebly.com/6th-grade-science.html>