

## Ocean Acidification Instructional & Supplemental Materials

### Video Links

[The Other Carbon Dioxide Problem](#) (NOAA) 3:57 min. (shown in class on Monday, May 8<sup>th</sup>)

[Acidifying Waters Corrode Northwest Shellfish](#) (NOAA) 6:07 min.

[Tracking an Ocean of Carbon](#) (NOAAPMEL) 4:01 min.

[Excerpt from documentary A Sea Change](#) (NOAAPMEL) 1:50 min.

[Ocean Acidification](#) (Alliance for Climate Education) 3::02 min. \*from our anchor text

[TED Talk: Rob Dunbar: The Threat of Ocean Acidification](#) (2010) 18:45 min.

[What is Ocean Acidification: A Cartoon Crash Course](#) (PEW) 2:05 min.

[Ocean Acidification at Point Reyes National Seashore](#) (National Park Service Climate Change Response) 7:45 min.

[Ocean Acidification with Dr. Francisco Chavez](#) (History Channel) 3:45 min.

[NOAA Ocean Acidification Demonstration](#) (NOAA) 13:50 min.

[Ocean Acidification](#) (California Academy of Sciences) 4:04 min.

[The Future of Our Ocean Is In Our Hands](#) (PSA) - Environmental Defense Center/National Marine Sanctuary Foundation 00:29 sec.

[A List of YouTube links for videos on Ocean Acidification](#)

### News & Articles

[A Rising Tide of Acid Off California](#) (2012)

[Ocean Acid Trip: The Hidden Harm of Climate Change](#) (2013)

[Ocean Acidification: A Risky Shell Game](#) (2009)

[The Acid Sea](#) (National Geographic (2011)

### Misc. Resources (Brochures, FAQs, Reports, etc.)

[Ocean Acidification Fact Sheet](#) (NOAA)

[Ocean Acidification Fast Facts](#) (European Project on Ocean Acidification - EPOCA)

[Ocean Acidification: A Summary for Policymakers From the Second Symposium on the Ocean in a High-CO2 World](#)

[Ocean Acidification: A Summary for Policymakers From the Third Symposium on the Ocean in a High-CO2 World \(2013\)](#) (has some good charts/graphs)

[Impacts of Ocean Acidification on Coral Reefs and Other Marine Calcifiers](#) (PDF)

[Ocean, Carbon & Biochemistry Whitepaper on Ocean Acidification](#) (PDF)

[Federal Ocean Acidification Research Council Report on Ocean Acidification](#) (NOAA)

[World Wildlife Federation magazine The Circle special issue on Ocean Acidification](#) (PDF)

[Ocean Acidification Educational Tools - Visualizations](#) (NOAA) - includes an animation of computer recreation of surface ocean pH from 1895 to present with a forecast until 2100.

[Frequently Asked Questions about Ocean Acidification](#) (BIOACID)

[A Primer on pH](#) (NOAAPMEL)

[OA Research](#) - We seek to understand how OA affects the chemistry of the oceans and its marine ecosystems (NOAAPMEL)

[Ocean Acidification Education Project](#) (Puget Sound)

[The Keeling Curve](#) - a daily record of atmospheric carbon dioxide from Scripps Institution of Oceanography at UC San Diego, recorded from Mauna Loa Observatory

[Ocean Acidification](#) (explained as a comic) - scroll to bottom

### **Ocean Acidification Websites**

[Intragency Working Group on Ocean Acidification](#)

[Ocean, Carbon & Biochemistry Ocean Acidification](#) (OCB)

[Ocean Acidification Blog](#) by Ocean Acidification International Coordination Centre (OA-ICC)

[California Current Acidification Network](#) (C-CAN)

[NOAA National Marine Sanctuaries Ocean Acidification and CO2 Monitoring](#)

[NOAA Coral Reef Information System](#) (CoRIS)

[NOAA Coral Reef Watch](#)

[U.S. Geological Survey Ocean Acidification Website](#) (USGS)

[Environmental Protection Agency Ocean Acidification website](#) (EPA)

[Integrated Marine Biology and Ecosystem Research Ocean Acidification website](#) (IMBER)

[Biological Impacts of Ocean Acidification website](#) (BIOACID)

[Washington State Blue Ribbon Panel on Ocean Acidification: Ocean Acidification From Knowledge to Action](#)

### **Multimedia (Simulations)**

[Ocean Acidification simulation](#) (NOAA + climate.gov)

[Sea Change: The Pacific's Perilous Turn](#) (interactive website)

[Ocean Acidification Around the World](#) (interactive story map) (NOAA)

[Graphing Ocean Acidification](#) (Climate Literacy & Energy Awareness Network CLEAN)

### **Other**

[Sign the Pledge](#) (for students to sign committing to this initiative)

*"I pledge my name in support of protecting our ocean. I pledge to educate others about ocean acidification. I pledge to get involved in helping to reduce CO2 emissions and transition to clean energy sources. By uniting my voice with others, we have the power to change the world."*