

## INTEGRATED SCIENCE, ELA, AND ELD IN GRADE SPAN 3–5 VIGNETTE 4.4: BIODIVERSITY IN CHANGING ENVIRONMENTS

- . 2013. *Would Blackberries Grow...?* Sacramento: Office of Education and the Environment. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link33>.
- Frost, Helen and Leonid Gore. 2008. *Monarch and Milkweed*. New York: Atheneum Books for Young Readers.
- Ingram, Braeden. 2014. "Balance Wildlife, Energy Needs." *Davis Enterprise* March 2, 2014: Sunday Forum. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link34>.
- Jiang, Emily. 2014. "Pesticides Can Do Great Harm." *Davis Enterprise* March 2, 2014: Sunday Forum. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link35>.
- Justice, Lisa. 2015. Nature Bowl at Explorit <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link36>

## References

- Andre, James M. 2011. "*Lupinus Arizonicus*." Posted at *CalPhotos*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link37>.
- Art G. 2007. "Cougar Closeup." Posted at *Wikimedia Commons*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link38>.
- Black, Newton Henry, and Harvey N. Davis. 1913. *Practical Physics*. New York: MacMillan. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link39>.
- California Education and the Environment Initiative. 2013. *Habitats Map*. Sacramento: Office of Education and the Environment. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link40>
- Calflora: Information on California Plants for Education, Research, and Conservation. 2015a. *Lupinus benthamii* Interactive Distribution Map. Berkeley, California: The Calflora Database. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link41>.
- . 2015b. *Lupinus arizonicus* Interactive Distribution Map. Berkeley, California: The Calflora Database. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link42>
- Cattoir, Andrew. 2011. "Desert Bighorn Sheep." Posted at *Flickr*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link43>.
- Centers for Disease Control and Prevention. 2015. "Stats of the State of California." <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link44>.
- Christie, Christopher L. 2002. "*Lupinus Benthamii*." Posted at *CalPhotos*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link45>.
- David-O. 2008. "Male Anna's Hummingbird." Posted at *Flickr*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link46>.
- Department of Geography, University of Oregon. 2000. Air temperature at 2 Meters: January <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link47>.
- Deutsch. 2012. "The Pleiades Star Cluster, Star, Star Clusters." Posted at *Pixabay*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link48>.
- Duran Ortiz, Mario Roberto. 2011. "Volvo C30 Electric WAS 2011 852." Posted at *Wikimedia Commons*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link49>

- Ecosphere Associates Inc. 2013. "Oval Ecosphere." Posted at *Wikipedia*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link50>.
- Egg Harbor Township STEM Committee. 2013. 3rd Grade Motion and Stability Unit. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link51>.
- Ellsworth, William L., Andrea L. Llenos, Arthur F. McGarr, Andrew J. Michael, Justin L. Rubinstein, Charles S. Mueller, Mark D. Petersen, and Eric Calais. 2015. "Increasing Seismicity in the U.S. Midcontinent: Implications for Earthquake Hazard." *The Leading Edge* 34 (6): 618–620, 622–622, 624–626.
- epSos.de. 2010. "Latino Children Play Swing." Posted at *Wikimedia Commons*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link52>.
- Haen, M.L. 2012. "Rabbit Looks Surprised by Monique Haen." Posted at *Wikimedia Commons*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link53>.
- Hagblom, Lisa. 2013. "Red Fox Furbearing Mammal." Posted at *Wikimedia Commons*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link54>.
- Hume, Greg. 2009. "Bubo Virginianus 06." Posted at *Wikimedia Commons*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link55>.
- Jarmoluk, Michal. 2014. "Newton's Cradle Balls Sphere Action." Posted at *Pixabay* <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link56>.
- Keeley, Page. 2012. "Formative Assessment Probes: Seeing the Light." *Science and Children* 49 (6): 28–31.
- Keeley, Page, Francis Eberle, and Lynn Farrin. 2005. *Uncovering Student Ideas in Science, Volume 1: 25 Formative Assessment Probes*. Arlington: National Science Teachers Association.
- Keeley, Page, and Rand Harrington. 2010. *Uncovering Student Ideas in Physical Science: 45 New Force and Motion Assessment Probes*. Arlington: National Science Teachers Association.
- Koistinen, Ville. 2007. "Vegetation." Posted at *Wikimedia Commons*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link57>.
- Lagunoff, Rachel, Pamela Spycher, Robert Linqanti, Cathy Carroll, and Kathy DiRianna. 2015. Integrating ELD Standards into K–12 Mathematics and Science Teaching and Learning: A Supplementary Resource for Educators. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link58>.
- Leaflet. 2004. "Green Mountain Wind Farm Fluvanna 2004." Posted at *Wikimedia Commons*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link59>.
- Lock, Vincent. 2008. "Holding the Eiffel Tower." Posted at *Flickr*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link60>.
- Mauney, Laura. 2013. The First Grade of Environmental Education. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link61>.
- Mesaros, Jan. 2014. "Lump Sugar, Sugar, Cubes, Sweet, Food, White." Posted at *Pixabay* <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link62>.
- Miller, Marli Bryant. 2008. "Aerial Photograph of the Hanaupah Canyon Alluvial Fan Complex, View from the East." From Machette, Michael N., Janet L. Slate, and Fred M. Phillips. 2008. "Terrestrial Cosmogenic-Nuclide Dating of Alluvial Fans in Death Valley, California." *USGS Professional Paper* 1755.
- Mintchipdesigns. 2009. "Child Girl Rain Puddle Raincoat." Posted at *Pixabay*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link63>.

## Grades Three Through Five

- Misilla. 2014. "Regrow Lettuce in Days!" Posted at YouTube <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link64>.
- Montani, Greg. 2015. "Hawk Falcon Bird Feather Hunter." Posted at *Pixabay*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link65>.
- Mosdell, Sid. 2012. "Chrysalis to Butterfly (#3 of 5)." Posted at *Flickr*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link66>.
- National Geographic. 2014. Whales Team Up in Amazing Bubble-Net Hunt. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link67>.
- NGSS Lead States. 2013. 3–5 Combined Storyline. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link68>.
- Owen-Wahl, Robert. 2006. "Sea Green Drop Droplets Earth Emerald Green Grow." Posted at *Pixabay*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link69>.
- The Paleontology Portal. N.d. Fossil Gallery. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link70>.
- PhET Interactive Simulations, University of Colorado Boulder (PhET). N.d.a. Energy Forms and Changes: Energy Systems. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link71>.
- . N.d.b. Forces and Motion: Basics. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link72>.
- . N.d.c. States of Matter: Basics. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link73>.
- Reiff, Patricia H. and C.C. Law. 2003. *Earth Update*. CD-ROM. Houston: Rice Space Institute.
- Sibenaller, Jackie. 2013. Chemical Reactions: Investigating Exothermic and Endothermic Reactions. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link74>.
- Schweihofer, Stefan. 2014. "Five Elements Wood Fire Earth Metal Water Dawn." Posted at *Pixabay*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link75>.
- Teach Engineering. 2010. Hands-on Activity: Shake It Up! Engineering for Seismic Waves. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link76>.
- Todd, Jessica. 2004. Figure 1 at <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link77>.
- University of California Museum of Paleontology. N.d. Specimen. Search <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link78>.
- U.S. Fish and Wildlife Service. 2015. "Wetland in Spring." Posted at *Pixnio*, <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link79>.
- U.S. Geological Survey (USGS). 2016. Computer Simulations of Ground Shaking for Teachers. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link80>.
- . 2015a. Schoolyard Geology Lesson 2: Rock Stories. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link81>.
- . 2015b. Schoolyard Geology Lesson 3: GeoSleuth Schoolyard. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link82>.
- . N.d. Water Resources of the United States, Distribution of Earth's Water. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link83>.
- Weingarten, Matthew, Shemin Ge, Jonathan W. Godt, Barbara A. Bekins, and Justin L. Rubinstein. 2015. "High-Rate Injection is Associated with the Increase in U.S. Mid-Continent Seismicity." *Science* 348 (6241): 1336–1340.
- Wilensky, Uri. 1999. NetLogo. Center for Connected Learning and Computer-Based Modeling, Northwestern University, Evanston, IL. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link84>.
- . 1997. NetLogo Ants Model. Center for Connected Learning and Computer-Based Modeling, Northwestern University, Evanston, IL. <https://www.cde.ca.gov/ci/sc/cf/ch4.asp#link85>.