

Resource Archive

Chapter 5

Baby Hamster

1. *Hamster Facts: Diet, Habits & Types of Hamsters*. LiveScience. Available at www.livescience.com/27169-hamsters.html.
2. *National Geographic Magazines for Kids*. National Geographic. Available at www.nationalgeographic.com.

Wogs and Wasps

Time-Lapse Videos of Animals

1. From frog eggs to tadpoles (pollywogs): www.youtube.com/watch?v=B3d48VfQHbY.
2. From tadpoles (pollywogs) to frogs: www.youtube.com/watch?v=aTanXdFVEOw.
3. From caterpillar to butterfly: www.youtube.com/watch?v=J3w85HnC1HI;
www.youtube.com/watch?v=m2VLkMoC274.
4. From eggs to adult bees: www.youtube.com/watch?v=f6mJ7e5YmnE.

Baby, Baby Pear

1. Essential Science for Teachers: Life Science, is available at www.learner.org/channel/series179.html.

Chapter 6

Where's Percho?

1. *Double-Crested Cormorants in Michigan: A Review of History, Status, and Issues Related to Their Increased Population*. Michigan Department of Natural Resources, Report No. 2, 2005. Available at www.michigan.gov/documents/Cormorant_Report_136470_7.pdf.
2. *The Rise of the Double-crested Cormorant on the Great Lakes: Winning the War Against Contaminants*. Environment Canada, Great Lakes Fact Sheet, 1995. Available at <http://publications.gc.ca/collections/Collection/En40-222-2-1995E.pdf>.

3. *Michigan Cormorant NEPA*. [NEPA is the National Environmental Policy Act.] U.S. Fish and Wildlife Service, 2006. Available at www.fws.gov/Midwest/NEPA/MICormorantNEPA.

Lake Michigan—A Fragile Ecosystem

1. Michigan DNR fish population estimates. Latest report available at www.michigan.gov/documents/dnr/LakeMI-FisheryUpdate-Sept2015-v2_501195_7.pdf?source=govdelivery
2. “The Lake Michigan Fishery: Balancing the Future.” 2005. Available at www.michigan.gov/documents/LakeMichiganBriefingPaperSept05_135869_7.pdf.
3. “Paradise in Peril,” by Dan Egan. *Milwaukee-Wisconsin Journal Sentinel*, Dec. 12, 2004. Available at www.jsonline.com/news/wisconsin/98940344.html.
4. “Status of Salmonines in Lake Michigan, 1985–2007.” Available at www.in.gov/dnr/fishwild/files/fw-SWG_2008_Report_data1985to2007_To_the-LMC.pdf.

Bottom Dwellers

1. “Benthic Macroinvertebrates,” in Hoosier Riverwatch Volunteer Stream Monitoring Training Manual 2015. Indiana Department of Environmental Management, [2015]. Available at www.in.gov/idem/riverwatch/files/volunteer_monitoring_manual.pdf.
2. “Blood Midges.” Available at www.flyline.com/entomology/blood_midges.

Bogged Down

1. “Plant Succession.” 2015. Available at <http://users.rcn.com/jkimball.ma.ultranet/BiologyPages/S/Succession.html>.
2. “Peatlands, Bogs and Fens.” Minnesota Department of Natural Resources, 2016. Available at www.dnr.state.mn.us/snas/coniferous_peatlands.html.
3. “Volo Bog State Natural Area.” Illinois Department of Natural Resources, 2016. Available at www.dnr.illinois.gov/Parks/Pages/VoloBog.aspx.

The Purple Menace

1. “Purple Loosestrife in the Great Lakes Region.” Great Lakes Information Network, 2016. Available at www.great-lakes.net/envt/flora-fauna/invasive/loosestf.html.

2. “Purple Loosestrife” (see the sections on control), by Bernd Blossey. Cornell University Ecology and Management of Invasive Plants Program, 2002. Available at www.invasiveplants.net/plants/purpleloosestrife.htm.
3. “Purple Loosestrife.” Indiana Department of Natural Resources. Available at www.in.gov/dnr/entomolo/4529.htm.
4. “Purple Loosestrife in Michigan: Biology, Ecology, and Management.” Michigan Sea Grant College Program. Available at www.miseagrant.umich.edu/downloads/ais/fs-97-501_purple_loosestrife.pdf.
5. “Beetle Bash Purple Plant Invaders,” by Laura Walikainen. MichiganTech News/Media, 2003. Available at www.admin.mtu.edu/urel/news/media_relations/187.

Chapter 8

Mysterious Mass

1. Carbon TIME plant investigation video of plants producing oxygen in the light and carbon dioxide (CO₂) in the dark: <http://carbontime.bsccs.org>. Register and go to Activity 2.2 in the “Plants” unit.
2. Time lapse of acorn growing: www.youtube.com/watch?v=4BtKakP5xOk.

Why We Are Not What We Eat

1. Time-lapse video of a sprouting potato. Available at www.youtube.com/watch?v=EGx7rW_elok.
2. Carbon TIME “Growing Plants” video (http://envlit.educ.msu.edu/publicsite/html/CarbonTIME1415_unit_zip_files.html): This video, which is also used in the Mysterious Mass problem, shows what happens to mass and carbon dioxide (CO₂) when plants are in the light (doing more photosynthesis than cellular respiration) and when plants are in the dark (doing only cellular respiration). Plants also do cellular respiration when they are in the light, but because the rate of photosynthesis is greater than that of respiration, the net effect is intake of CO₂ in the light.
3. Biosynthesis pathways chart: Many of these charts are available online; one example is www.sigmaaldrich.com/technical-documents/articles/biology/interactive-metabolic-pathways-map.html. The point of the biosynthesis pathways chart is not for students to look at individual reactions but for them to get the idea that cells have multiple pathways for making the molecules they need from what’s available.