Websites

2nd Grade - Ecosystem Interactions & Biological Evolution

4-H Virtual Farm: Poultry
https://www.sites.ext.vt.edu/virtualfarm/main.html
K;1st;2nd;3rd;4th;5th;6th;7th;8th
Website Type: Student Background;Student Online Activities;Teacher Background
Check out the "virtual chick hatch" at this 4H farming website for nice images and facts about chicken life cycles. Link back to main site for more farming info.

A House for Hermit Crab
http://www.eric-carle.com/bb-crab.html
K;1st;2nd
Website Type: Teacher Background
A list of lesson ideas to follow-up Eric Carle's A HOUSE FOR HERMIT CRAB

A replica of the complete John James Audubon's Birds of America
http://www.abirdshome.com/Audubon/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Teacher Background
A replica of the complete John James Audubon's Birds of America (1840-1844) Includes the full text, color plates, figures and bird calls

AfterSchool KidzScience
http://www.lawrencehallofscience.org/kidsite/collections-2/afterschool-kidzscience/
K;1st;2nd;3rd;4th;5th
Website Type: Teacher Activities;Teacher Background;Teacher Videos
This webpage offers a range of science kits designed for afterschool programs. These could certainly be used in the general classroom as well. At the bottom of the page is a series of videos on teaching strategies and how to use the kits. Valuable whether you are using the kits or not.

Alameda Master Gardener's School Garden Resources
http://acmg.ucdavis.edu/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Teacher Background
This site has lots of gardening resources including some specific pages on how to start and school garden and what you can do in it with your students.

American Arachnology Association
http://www.americanarachnology.org/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Teacher Background
Professional Association for the study of spiders. Has links for a North American Spider Identification Manual

7/2/2019 Websites are an excellent place for finding activity ideas.
Animal Camouflage at pppst.com
http://animals.pppst.com/camouflage.html
2nd;3rd;4th;5th
Website Type: Student Background; Student Online Activities; Teacher Activities; Teacher Background
Free power point presentation and other resources on camouflage

Animals, Adaptation and the Galapagos Islands
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background; Student Online Activities; Teacher Activities; Teacher Background
Narrated background and online activities about evolution and animal adaptations.

Apples & More
http://www.urbanext.uiuc.edu/apples/edu-introduction.html
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Online Activities; Teacher Activities; Teacher Background
A variety of educational activities and projects about apples, including lessons for social studies, science, math, writing

Aquarium Care Blog
http://www.aquariumcareblog.com/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background; Teacher Background
This site has good basic information on setting up an aquarium and the daily, weekly and monthly maintenance needed.

Aquarium Set up for Beginners
http://www.fishlore.com/Beginners.htm
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background; Teacher Background
Commercial site that has some basic guides to setting up aquariums and much, much more.

Arctic Animals of Alaska
http://score.rims.k12.ca.us/activity/alaska/
K;1st;2nd;3rd;4th;5th
Website Type: Student Background; Teacher Activities; Teacher Background
This is a short unit on Arctic Animals of Alaska. Has links to related websites to support the different lessons inbedded in the webpage.

Ask A Biologist - Arizona State University
http://askabiologist.asu.edu/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK
Website Type: Student Background; Student Online Activities; Teacher Activities; Teacher Background; Worksheets; Teacher Background
Ask A Biologist began in 1997 in the School of Life Sciences. The site continues to be developed, and maintained by a dedicated group of volunteers. It is designed as an educational resource for students preK-12, and their teachers and parents. Ask A Biologist is visited by over 9,000 people every day and has answered more than 30,000 questions.
Bat Conservation International
http://www.batcon.org/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK
Website Type:  Student Background;Teacher Activities;Teacher Background
Photos, descriptions, $40 Bat Trunk Rental for teachers. You can also look at PDF versions of their magazine. Lots of information about bats

BatsLive: A Distance Learning Adventure
http://batslive.pwnet.org/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK
Website Type:  Teacher Activities;Teacher Background;Student Videos;Worksheets;Teacher Videos
This site includes videos on various species of bats and the places they live. Find lots of other resources on background information, activity ideas, printable posters and more.

Binford Spider Lab
http://www.lclark.edu/college/departments/biology/binford_spider_lab/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type:  Teacher Background
Greta Binford is a Spider Biologist at Lewis and Clark College. Her website has lots of information on all things spider.

Biomimicry Education Network
http://ben.biomimicry.net/curricula-and-resources/youth-curricula/#Elementary
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type:  Teacher Activities
The ultimate biomimicry resource for K-12 educators is now available! Access more than 80 biomimicry lesson plans, activities, videos, and tools geared to students of varied grade levels. The free toolkit features a special orientation for teachers new to biomimicry

Bird Songs
http://www.math.sunysb.edu/~tony/birds/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type:  Student Background;Student Online Activities;Teacher Background
Click on the pictures of the birds to hear Songs and calls of some New York State birds. Some of the birds (and their families) are also in California. Also has links to other bird song sites.

Blue Whale Feeding - Science Friday
http://sciencefriday.com/video/12/07/2012/blue-whale-barrel-roll.html
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type:  Student Videos
Video and science behind Blue Whales doing barrels rolls while diving for krill.

Bottle Biology
http://www.bottlebiology.org
1st;2nd;3rd;4th;5th;6th;7th;8th
Website Type:  Teacher Activities;Teacher Background
This website contains how to's for several different bottle biology columns. Decomposition, Kimchee, and a TerrAqua Column
**Bottle Biology Lesson Plans**


1st;2nd;3rd;4th;5th;6th;7th;8th

**Website Type:** Teacher Activities; Teacher Background

This website contains how to's for several different bottle biology columns. Decomposition, Kimchee, and a TerrAqua Column

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**Bottle Habitat Lesson Plan**

http://www.reachoutmichigan.org/funexperiments/agesubject/lessons/bottle.html

1st;2nd;3rd;4th;5th;6th;7th;8th

**Website Type:** Teacher Activities; Teacher Background

Students will construct an aquatic ecosystem in a two-liter pop bottle. The stock organisms will be: water plants, snails, and fish. Students will record data concerning the observations they make over a four-week period.

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**Bucket Buddies**

http://www.k12science.org/curriculum/bucketproj/

K;1st;2nd;3rd;4th;5th

**Website Type:** Student Background; Student Online Activities; Teacher Activities; Teacher Background

This is one of a group of CIESE's on-line data-collection projects that unite classrooms and teachers around the world through the use of real-time data that involves students in meaningful real-world learning. Students collect samples from local ponds to answer the question: Are the organisms found in pond water the same all over the world?

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**Bug Hunt!**

http://www.lawrencehallofscience.org/kidsite/portfolio/bug-hunt/

K;1st;2nd;3rd;4th;5th

**Website Type:** Student Background; Student Online Activities; Teacher Activities

Billions of bugs and other insects live on Planet Earth. How many kinds can you find? Go on a hunt for ants, butterflies, ladybugs and more. Record what you find, submit your data online, and discover where different kinds of insects live all over the United States.

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**Bugbios: Entomoglogical Database of Very Cool Bugs**

http://www.insects.org/entophiles

K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

**Website Type:** Teacher Background

The Entophiles currently contain 150 photographs (52 ) from California, Brazil, Ecuador, Indonesia and Hawaii. You'll also find frequently asked questions (FAQ's), information about insect macrophotography equipment, shoot locations and photo usage information

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**Building a Terrarium**

https://kidsgardening.org/garden-activities-building-a-terrarium/

K;1st;2nd;3rd;4th;5th;PK

**Website Type:** Teacher Activities; Teacher Background

Instructions on how to make a simple terrarium in a 2 liter bottle.

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**California Native Plant Society**

http://www.cnps.org

K;1st;2nd;3rd;4th;5th;6th;7th;8th

**Website Type:** Student Background; Teacher Background

The Kids Stuff section has educational pages that teach why plants have flowers and about chaparral and fires. Great background information on native plants.
California Plant Communities
http://www.laspilitas.com/comhabit/plantcom.htm
2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Teacher Background
Good resources for what the communities are called, where they are located, what plants and animals live in these different communities. Nice photos to illustrate.

Camouflage from the BBC
http://www.bbc.co.uk/nature/adaptations/Camouflage
2nd;3rd;4th;5th
Website Type: Student Background;Student Online Activities;Teacher Background
The BBC’s Camouflage site has several videos to watch and observe camouflage in the natural world.

Chickscope
http://chickscope.beckman.uiuc.edu/
K;1st;2nd;3rd;4th;5th;6th;7th;8th
Website Type: Student Background;Teacher Activities;Teacher Background
Using computers in the classroom with access to the Internet, students and teachers are able to access data generated from the latest scientific instruments. The goals include an increased understanding of the process of gathering scientific data and the opportunity to interact with scientists from several disciplines and students in other classrooms. The access to unique scientific resources and expertise provides motivation for learning science and mathematics and stimulates interest in the scientific world.

Children of the Earth
http://www.childrenoftheearth.org/
2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Student Online Activities;Teacher Activities;Teacher Background
Activities, links, blogs on many issues of environmental education.

Common Trees of the Pacific Northwest
http://oregonstate.edu/trees/index.html
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Student Online Activities;Teacher Background
How to identify trees of the Pacific Northwest (Many are common to California as well). Has a nice on-line dichotomous key and a "mystery tree" section that lets you test your identification skills using the dichotomous key.

DFG - California Plant and Animal Species
http://www.dfg.ca.gov/wildlife/nongame/genplantsanimals.html
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Teacher Background
Lots of information from the Department of Fish and Game on California Wildlife. Links and pictures

Dichotomous Tree Key
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Student Online Activities;Teacher Background
Learn how to identify different trees with this nice simple Dichotomous Tree Key
Disappearing Water
https://eduref.org/lessons/science
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Teacher Activities
Science lessons at every grade level and topic

Draw that Habitat
http://pbskids.org/fetch/games/habitats/index.html
K;1st;2nd;3rd
Website Type: Student Online Activities
This online game from PBS and Fetch with Ruff Ruffman lets students draw their own habitats.

Ducks Unlimited Greenwing
http://www.greenwing.org/index.html
2nd;3rd;4th;5th;6th;7th;8th
Website Type: Student Online Activities
This site is designed for kids to learn about different birds, especially ducks. There are several simple online games including, Mallard Drake about bird bills, keep em turning about keeping and egg warm, bird watching and more.

Edu Place - Ecosystems
http://www.eduplace.com/cgi-bin/searchengine.cgi?SEARCH=Ecosystems&WORD_POINTS=0,1,0,0
1st;2nd;3rd;4th;5th;6th;7th;8th
Website Type: Teacher Activities
18 grade-level activities about ecosystems from Houghton Mifflin's on-line library of classroom activities. Check their index for activities in other subjects too!

Engineering Adventures
http://eie.org/engineering-adventures/curriculum-units
K;1st;2nd;3rd;4th;5th;PK
Website Type: Student Background;Student Online Activities;Teacher Activities;Teacher Background;Student Videos;
Engineering Everywhere is a FREE engineering curriculum for elementary level students. Choose from seven units with fun, hands-on engineering design challenges based on real events around the world.

EPA Ecosystems Teaching Resources
https://www.epa.gov/students/lesson-plans-teacher-guides-and-online-environmental-resources-educators
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Student Online Activities;Teacher Activities;Teacher Background
links to a wide variety of teaching resources; curriculum and lesson plans; on-line data projects, etc.

EPA Explorers Club
http://www.epa.gov/students/index.html
1st;2nd;3rd;4th;5th
Website Type: Student Background
Natural resources activities and information. Fun and interesting activities, facts, and resources for kids and teachers about plants and animals, garbage and recycling, and the environment.
Essig Museum of Entomology
http://essig.berkeley.edu/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Teacher Background
Website for the Museum of Entomology at the University of California, Berkeley. Has a section on the insects and spiders of California, including those that are endangered.

Explore.org Live Cams
http://explore.org/#!/live-cams/player/honey-bee-hive-cam
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK
Website Type: Student Videos
Explore.org has a collection of live cams from around the world. Some are in museums/nature centers. Others are outdoors. Honey Bee Cam, Penguin Cam, Seal Cam, Wave Cam, kelp forest cam. Lots of options for animals and environments.

Exploring Garden Ecosystems
https://www.teachingchannel.org/videos/exploring-garden-ecosystems
K;1st;2nd;3rd;4th;5th;6th;TK
Website Type: Teacher Activities;Teacher Background;Teacher Videos
Series of videos showing lessons focusing on garden ecosystems.

Exploring Hide & Seek
http://www.units.muohio.edu/dragonfly/hide/index.shtml
K;1st;2nd;3rd;4th;5th
Website Type: Student Online Activities
Here you can explore nature’s game of hide and seek -- how predator and prey camouflage themselves and try to hide from each other. There are several different online activities.

Frogs and Toads in Color and Sound
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Teacher Background
Frog and Toad photographs and calls.

Fruits, Seeds and their Dispersal
http://www.saps.org.uk/primary/teaching-resources/223-fruits-seeds-and-their-dispersal
K;1st;2nd;3rd;4th;5th
Website Type: Teacher Activities;Teacher Background
Plants have a variety of ways in which they disperse their seeds, or the fruits containing the seeds. Four main groups of dispersal mechanisms can be recognized: animal, wind, water and self-dispersal. The size, shape and color of the fruit and seed, together with other features, reflect the method of dispersal.

Geography Action! Habitats: Home Sweet Home
https://www.nationalgeographic.com/environment/earth-habitats/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Student Online Activities;Teacher Activities;Teacher Background
This National Geographic site has an amazing variety of habitats on the planet, so does this Web site have an amazing variety of features including habitat-specific lesson plans (grades K-12), photos; Web links; and several interactive multimedia adventures, such as piloting a mini-sub through a virtual kelp forest or taking an animated trek through the Arctic. The site also provides numerous ideas for exploring and protecting your own habitat.
GLOBE
http://www.globe.gov
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Online Activities;Teacher Background
GLOBE encourages students to utilize on-line data to help answer questions about how the environment around them works. Through investigation projects students do science, learning the importance of creating hypotheses, analyzing data, drawing conclusions and reporting their results.

Green Schoolyard Resource Directory
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Teacher Background
Green Schoolyard Resource Directory for the San Francisco Bay Area For schools, parents, teachers, students, designers, and community members in San Francisco and around the Bay Area.

Growing Minds - Farm to School
http://growing-minds.org/lesson-plans/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Teacher Activities;Teacher Background
This site has a nice selection of activities and resources about how to create and use a school garden and its bounty

Habitat Theme Units
https://www.abcteach.com/directory/subjects-science-habitats-biomes-3772-2-1
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Online Activities;Teacher Activities
An array of integrated lesson plans with LOTS of printable materials and some online activities – choose among a wide variety of habitats to explore. Themed Units: African Savannah/Grasslands; Antarctica; Arctic; Coral Reef; Desert; Rain Forest.

Journey North
http://www.learner.org/north/orientation/About.html
1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Student Online Activities;Teacher Background
This website links students around the globe in collecting and comparing data about butterflies, whooping cranes, tulips, whales, and many other species.

K-12 Soil Science Teacher Resources
http://www.soils4teachers.org/home
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Teacher Activities;Teacher Background
Online resources from the Soil Science Society of America. Includes links to lesson plans, background information about the science of soil, connections between the land and people, soils around the world and more.

Kids Gardening Website
https://kidsgardening.org/
K;1st;2nd;3rd;4th;5th;6th;7th;8th
Website Type: Teacher Activities;Teacher Background
Great ideas for teaching from the garden – check out the unit on creating dyes from plants! A teacher resource website with information on grants, classroom stories, and ideas for getting gardening into the classroom.
**KidZone - Activity ideas on bats**  
http://www.kidzone.ws/animals/bats/activities.htm  
K;1st;2nd;3rd;4th;PK  
**Website Type:**  Worksheets  
This KidZone page has links to worksheets, color sheets, puzzle pages.

**KidZone - Penguins**  
http://www.kidzone.ws/animals/penguins/index.htm  
K;1st;2nd;3rd;4th;5th  
**Website Type:**  Student Background;Student Online Activities;Teacher Activities;Teacher Background  
This website on Penguins (and much more) has activities for kids and teachers, good backround information and photos.

**Let's Talk About Insects**  
http://www.urbaneext.uiuc.edu/insects/01.html  
1st;2nd;3rd;4th;5th;6th  
**Website Type:**  Student Background;Student Online Activities;Teacher Activities;Teacher Background  
Has audio in both English and Spanish that allows the site to be used by younger students. Learn how insects grow and develop (metamorphosis), and learn the importance of insects in our environment.  The Teacher guide section of the website has good ideas about activities with insects for the classroom.

**MARE's Build a Fish**  
2nd;3rd;4th;5th;6th;7th;8th  
**Website Type:**  Student Online Activities  
In this online game students can pick the fish body form that would survive best in different habitats.

**Missouri Botanical Garden Rainforest Pages**  
http://www.mbgnet.net/sets/rforest/index.htm  
K;1st;2nd;3rd;4th;5th;6th;7th;8th  
**Website Type:**  Student Background;Student Online Activities;Teacher Background  
General site that has pictures and background information about the plants and animals of the rainforest, both temperate and tropical. Includes a page of rainforest links.

**Monarch Watch**  
http://www.monarchwatch.org  
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
**Website Type:**  Student Background;Teacher Background  
Provides background information and lesson plans for teachers as well as fun educational pages for kids. Information for how to start a butterfly garden, the life cycle of the monarch butterfly, its habitat, what they eat, and where they migrate to. Includes photographs, essays, and different multimedia about Monarch butterflies.

**MonarchWatch Butterfly Gardening**  
http://www.monarchwatch.org/garden/  
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
**Website Type:**  Student Background;Teacher Activities;Teacher Background  
A comprehensive web site dedicated to the cultivation of butterfly gardens with links to purchase plants, larvae, and other needs.
Monterey Bay Aquarium Activities Page
https://www.montereybayaquarium.org/education/classroom-resources/games-and-activities
K;1st;2nd;3rd;4th;5th;6th

Website Type: Student Background; Student Online Activities; Teacher Activities; Teacher Background
This site has both printable and on-line activities for kids about the animals that live at and around the Monterey Bay.

Mrs. Jones Bat Page
http://www.mrsjonesroom.com/themes/bats.html
K;1st;2nd;3rd;4th;PK

Website Type: Teacher Activities; Teacher Background; Student Videos; Worksheets; Teacher Videos
This website was set up by an elementary teachers. She has included links to lots of videos about bats, craft ideas and literature connections.

National Atlas
https://nationalmap.gov/small_scale/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Type: Student Background; Student Online Activities; Teacher Activities; Teacher Background
This is a site that contains all kinds of data in map form. Geology, history, biology, political boundaries, environment, climate. You can print some maps yourself, order others, and use many online.

National Geographic - Emperor Penguin Page
http://kids.nationalgeographic.com/kids/animals/creaturefeature/emperor-penguin/
K;1st;2nd;3rd;4th;5th

Website Type: Student Background; Student Online Activities; Teacher Activities; Teacher Background
Videos, slide shows, coloring pages and more.

National Science Digital Library
http://nsdl.org/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Type: Student Online Activities; Teacher Activities; Teacher Background
This website is a huge resource for finding activity ideas, videos, photos and news about science and technology. They have a section specifically devoted to K-12 teachers.

National Wildlife Federation
http://www.nwf.org
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Type: Student Background; Student Online Activities; Teacher Background
Links to all kinds of wildlife activities and information, wetlands, habitat, endangered species.

National Zoo Reptiles and Amphibians
https://nationalzoo.si.edu/animals
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Type: Student Background; Teacher Background
Good site for background information on a wide variety of reptiles and amphibians. Limited kids page.

7/2/2019
Websites are an excellent place for finding activity ideas.
NOAA Artic Them Page
http://www.arctic.noaa.gov/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Type:  Student Background;Student Online Activities;Teacher Activities;Teacher Background
This page from NOAA has lots of links to technical information but also has great stuff like a north pole web cam and links to whale and seal sounds. and more...

Oakland on the Move: The Ohlone
http://www2.sims.berkeley.edu/courses/is290-2/f98/oaklandkids/sites/ohlone/index.html
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Type:  Student Background;Teacher Background
This site has background information on the Ohlone living in the Oakland Area.

Oakland Zoo
http://www.oaklandzoo.org/Animals.php
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Type:  Student Background;Teacher Background
This website lets you look at all the animals at the zoo in pictures and descriptions.

Ology: A Website for Kids from the American Museum of Natural History
http://www.amnh.org/explore/ology
K;1st;2nd;3rd;4th;5th;6th;7th;8th

Website Type:  Student Background;Student Online Activities
Join the Ologists at the american Museum of Natural History as the ask and answer some questions about paleontology.

Paso Partners Bilingual Instruction
http://www.sedl.org/scimath/pasopartners/
K;1st;2nd;3rd;4th;5th

Website Type:  Teacher Activities;Teacher Background
The resource is designed to help elementary school teachers organize their classrooms and instructional activities in order to increase achievement of Hispanic primary-grade children whose first language is not English. The guides offer a curriculum plan, instructional strategies and activities, suggested teacher and student materials, and assessment procedures. Bilingual lessons on Five Senses, Spiders, Dinosaurs, Plants & Seeds, Human Body, Health, Oceans, Weather, Matter, Sun & Stars, Sound, Simple Machines.

Penguins - Scientific Informaton
https://seaworld.org/animals/all-about/penguins/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Type:  Teacher Background
From the education department of Sea World, this site contains detailed scientific background but is very accessible to non-scientists.

Pete & Barb’s Penguin Pages
http://www.penguinpages.org/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Type:  Student Background;Teacher Background
This page provides a large range of background information on all types of penguins.
**Pinterest Ecpsystems**
https://www.pinterest.com/explore/ecosystem-activities/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;PK;TK
**Website Type:** Teacher Activities
Pinterest Explore page on Ecosystem activities.

**Pinterest Page on Bottle Biology Projects**
1st;2nd;3rd;4th;5th;6th;7th;8th
**Website Type:** Teacher Activities; Teacher Background
This pinterest page has lot of links to bottle biology projects

**Plants and Animals: Partners in Pollination**
http://www.smithsonianeducation.org/educators/lesson_plans/partners_in_pollination/index.html
K;1st;2nd;3rd;4th;5th;6th;7th;8th
**Website Type:** Teacher Activities; Teacher Background
These lessons are adapted from Smithsonian in Your Classroom. Ultimately, all life on Earth depends on plants to provide food, shelter, and oxygen for other living things. Consequently, plant reproduction is crucial to all other life on this planet. The first step in plant reproduction is the intricate process called pollination, which occurs when pollen grains, the male germ cell of a plant, reach the stigma, the female reproductive part of the same species of plant. Depending on the plant species, a flower can produce male, female, or both structures. Pollination can also occur within the same flower.

**Project Feeder Watch**
http://birds.cornell.edu/PFW/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
**Website Type:** Student Background; Student Online Activities; Teacher Background
FeederWatch helps scientists track broad scale movements of winter bird populations and long-term trends in bird distribution and abundance. Groups put up a feeder, count the birds that visit, and send their data to scientists.

**QUEST Exploration - Mt Diablo State Park**
http://www.kqed.org/quest/exploration/mt-diablo-state-park-exploration
2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
**Website Type:** Student Background; Student Online Activities; Teacher Background
This virtual fieldtrip of Mt. Diablo State park is a nice introduction to the geology and habitat of the park. It would be a good pre-fieldtrip activity.

**San Francisco Bay Lesson Guides**
https://www.aquariumofthebay.org/teachers/resources/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
**Website Type:** Teacher Activities
These guides provide a valuable resource for teaching about the San Francisco Bay and its watershed in your classroom. Discover new ideas for teaching students about everything from salmon to climate change to the Farallon Islands. Each guide contains multiple lesson plans focused on local animals and ecosystems and is aligned to state standards, including the Common Core and the Next Generation Science Standards. With twelve guides spanning multiple grade levels and a variety of topics, you can be sure to find lesson ideas to support your classroom curriculum.
Save the Redwoods League
http://education.savetheredwoods.org/kit/learn.php
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Student Online Activities;Teacher Activities;Teacher Background
The website has many valuable resources about redwood trees and their habitats. Older students will enjoy the Redwoods Transect Lessons.

Science and Nature Videos from Hidden Villa
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Videos;Teacher Videos
To assist educators in teaching science concepts we have developed 30 short videos that can help build students' life science knowledge and retention. Each video is a demonstration of a standard from the new NEXT GENERATION SCIENCE STANDARDS, but you can use them right now with your current curriculum. Teachers can use these short videos to:
* Introduce a concept
* Get students excited to learn about science
* Stimulate class discussion and exploration
* Show students real world examples

Scientists @ the Smithsonian
http://www.smithsonianeducation.org/scientist/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Teacher Background
Scientists aren't just nerds who wear lab coats. All kinds of people become scientists. And scientists do all kinds of things. Watch and read about these scientists at the Smithsonian. What kind of scientist would you like to be?

Sea World Teacher Guides
https://seaworld.org/teachers/classroom-resources/teachers-guides/
K;1st;2nd;3rd;4th;5th;6th;7th;8th
Website Type: Teacher Activities;Teacher Background
This site has downloadable teacher guides on many topics and grade levels having to do with Marine life. Examples are "Orcas,"Sea Lions and Seals," and "Penguins."

Seeds Dispersal
K;1st;2nd;3rd;4th;5th
Website Type: Teacher Activities;Teacher Background
Through these activities children can learn:
• that there are variations in seed shapes
• that these variations are important because they help the seed to reach a suitable habitat and to colonise new areas, free of competition from their own species.

Seeing through Camouflage
http://www.pbs.org/wgbh/nova/leopards/seeing.html
2nd;3rd;4th;5th
Website Type: Student Online Activities
from NOVA online. Because of their coloring, many animals blend seamlessly into their environment, making it difficult for predators to see them. This strategy is called camouflage, and helps many animals avoid being eaten. There are four basic types of camouflage. Play this Shockwave game and see if you can tell them apart.
Shedd Educational Adventures
http://www.sheddaquarium.org/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Student Online Activities;Teacher Background
Shedd Educational Adventures (SEA) contains a treasure trove of aquatic science resources for K-12 teachers and students.

Skulls
http://www.calacademy.org/exhibits/skulls/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Teacher Background
Learn about skull structure and function, skull diversity, the living tissue associated with bones, and the role of the academy’s skull collection in scientific research.

Smile Program of Biology Lesson Resources
http://www.iit.edu/~smile/biolinde.html
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Teacher Activities;Teacher Background
Teachers participating in the SMILE (Science and Mathematics Initiative for Learning Enhancement) summer session programs each create a single concept lesson plan. Caution: Since there is a wide number of authors who have contributed to the database, the detail and quality of the lesson plans will vary.

Smithsonian Arctic Studies Center - Arctic Wildlife
http://www.mnh.si.edu/arctic/html/wildlife.html
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Student Online Activities;Teacher Activities;Teacher Background
The Arctic Studies Center explores the history of northern peoples, cultures, and environments and the issues that matter to northern residents today. This page specifically gives information on the wildlife of the arctic

Soil Biological Communities
http://www.blm.gov/nstc/soil/Kids/index.html
2nd;3rd;4th;5th
Website Type: Student Background;Student Online Activities;Teacher Activities;Teacher Background
Wilbur the soil wizard guides students through topics including what soil is, why it’s important, animals found in it, what fungi and bacteria do to it, and much more. Includes classroom activities, quizzes and links.

Square of Life" On-Line project
http://www.k12science.org/curriculum/squareproj/
K;1st;2nd;3rd;4th;5th;6th;7th
Website Type: Student Online Activities;Teacher Activities;Teacher Background
This is one of a group of CIESE’s on-line data-collection projects, interdisciplinary projects that unite classrooms and teachers around the world through the use of real-time data that involves students in meaningful real-world learning. Students will investigate their local environment and share that information with other students from around the country and the world. Participants will: Identify living and non-living things in their school yards; Share their findings with other participating classes; Look for similarities and differences in the reported data; Prepare a final report or presentation based on their findings. For other online data collection projects, visit http://www.k12science.org/collabprojs.html.

Talk About Trees
http://www.talkabouttrees.org/
2nd;3rd;4th;5th;6th
Website Type: Student Background;Teacher Activities;Teacher Background
You will find seven complete lesson plans with objectives, skill area, vocabulary, and focus items. The curriculum is designed for grades 4-6, but is easily adaptable for other grade levels. Each lesson includes activities, many of which can be found in the “interactive games” and “forest activities” sections of the web page. Feel free to print the lesson plans and activities to use in your classrooms. Other parts of the website are geared towards student learning.

**Teacher Resource Guide to Agriculture issues**
https://learnaboutag.org/resources/index.cfm
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

**Website Type:** Teacher Activities; Teacher Background

Search the guide on-line or order your free copy. Has resources on all sorts of things related to agriculture. How to grow plants and animals and how farming is related to nutrition and habitat health.

**The Chick Hatchery**
http://www.msichicago.org/online-science/videos/video-detail/activities/the-hatchery/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

**Website Type:** Student Background

This site from the Museum of Science and Industry in Chicago features a Quicktime video of chicks hatching.

**The Crab Street Journal**
http://crabstreetjournal.org/wp/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

**Website Type:** Student Background; Teacher Background

This page offers teaching ideas, background info and a kidzone all on hermit crabs.

**The Forest Foundation**
http://www.calforestfoundation.org/materials/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

**Website Type:** Student Background; Student Online Activities; Teacher Background

This website has lots of free resources for teachers and students when studying the forest habitats of California. Geared for grade 3+ but lots of good content for teachers of the younger grades.

**The Greatest Places**
http://www.greatestplaces.org
1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

**Website Type:** Student Background; Student Online Activities

Features seven different and very distinct types of ecosystem, including great explorations of types of landforms, habitat, indigenous species, weather, etc. River Basin (Amazon), Icecap (Greenland), Waterfall (Iguazu Falls), Island (Madagascar), Desert (Namib), River Delta (Okavango Delta), and Plateau (Tibet).

**The Hummingbird Website**
http://hummingbirdworld.com/h/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

**Website Type:** Student Background; Teacher Background

This is an extensive site about hummingbirds. There is information on identifying hummingbirds, poetry and legends about hummingbirds and more.

**The Insects Homepage**
http://earthlife.net/insects/six.html
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

**Website Type:** Student Background; Teacher Background

Wonderful world of insects has interesting facts and links to insects with amazing adaptations, insect habitats, sexual characteristics, anatomy and insect orders.
UC Museum of Paleontology
http://www.ucmp.berkeley.edu/fosrec/
2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Teacher Background
Good resource for finding more information on fossils and the geological time frames.

Underground Adventure
1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Student Online Activities;Teacher Background
The world of soil is a rich and tiny habitat for amazing creatures. Take a virtual tour of the exhibit, and see what life would be like if you were a half-inch tall. This program was developed as a fifth-grade environmental science curriculum. However, the activities are interdisciplinary and can be modified for other grade levels.

USGS - Patuxent--Tools for Learning About Birds
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Student Online Activities;Teacher Activities;Teacher Background
This is a great site about birds. It has photos, songs, life histories, seasonal bird maps and a bird quiz

Video: The Coralax
https://www.youtube.com/watch?v=7p0Gcy6P9GY
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK
Website Type: Student Videos;Teacher Videos
This film was created by students in Maui Huliau Foundation's Huliau Environmental Filmmaking Club. Inspired by Dr. Suess's The Lorax, this claymation by our new middle school students uses 667 images to show how irresponsible shoreline development can impact our precious reef ecosystem.

WatchKnowLearn.org
http://www.watchknowlearn.org/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Teacher Background;Student Videos;Teacher Videos
This website has free educational videos on all topics (including science) for all age levels. There is specifically a section for younger learners.

Westward Frog
http://ice.ucdavis.edu/CANVDecliningAmphibians/oldpage/wwfrog.html
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Teacher Background
Contains resources for frog biology background. Has photos and sound clips of western frogs.

Wetlands Time Machine
2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background;Student Online Activities;Teacher Background
More than 100,000 acres of wetlands are being restored in the Bay Area, but how do we know what to restore them to? QUEST discovers how historical ecologists are recreating San Francisco Bay wetlands that existed decades ago.
A small town called Greenville was a nice place to live, with forests and ponds, it had lots to give. The people were happy in this little town, until something happened and Greenville turned brown. A poem with accompanying illustrations that recounts a tale of how important clean natural resources are.

When Greenville Turned Brown
https://www.slideshare.net/bennettprimaria/when-greenville-turned-brown-12325134
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Type: Student Background
A small town called Greenville was a nice place to live, with forests and ponds, it had lots to give. The people were happy in this little town, until something happened and Greenville turned brown. A poem with accompanying illustrations that recounts a tale of how important clean natural resources are.

Wyland Ocean Challenge
K;1st;2nd;3rd;4th;5th;6th
Website Type: Student Background;Teacher Activities;Teacher Background
An interdisciplinary art-science curriculum promoting conservation and stewardship through understanding adaptation and water cycle concepts. Downloadable activities and other interesting background information. Lesson resources are found in the right hand column of the main page.