

KINDERGARTEN BOOKMARKS

CLUSTER 1, TREES

Fun Forest Facts http://www.afandpa.org/kids_educators/index.html

Carly's Kids Corner (The National Arbor Day Foundation)

<http://www.arborday.org/carly/>

Trees <http://www.domtar.com/arbore/english/start2.htm>

What Tree is It? <http://www.oplin.lib.oh.us/products/tree/>

Shade Trees <http://www.monroe2boces.org/shared/esp/trees.htm>

Welcome to the Forest <http://arthur.k12.il.us/arthurgs/forlile.htm>

Illinois DNR Kids for Trees http://www.inhs.uiuc.edu/chf/pub/tree_kit/

Keeping Our Planet Green <http://members.aol.com/donnandlee/Green.html>

Planet Ark's Many Things You Need to Know about Trees

<http://www.planetark.org/treedaypage.cfm?pageid=7>

A Year of Trees (18 Activities)

<http://www.minnetonka.k12.mn.us/science/lessons23/trees.html>

Talk About Trees Lesson Plans <http://www.talkabouttrees.org/plans.html>

Illinois DNR Pre K - 2 Lesson Plans -Woodlands

<http://dnr.state.il.us/entice/Kto2index.htm>

A to Z of Trees

<http://edu.leeds.ac.uk/~edu/technology/epb97/forest/aztrees.htm>

Forestry <http://virtual.clemson.edu/groups/FieldOps/Cgs/Forest.htm>

Preventing Forest Fires (Smokey the Bear) <http://www.smokeybear.com/>

Autumn Leaf Scrapbook <http://mbgnet.robot.org/sets/temp/leaves/index.htm>

Why Do Leaves Change Colors?

<http://virtual.clemson.edu/groups/FieldOps/Cgs/leaves.htm>

Lesson Plans for Forest Minded Teachers

<http://www.idahoforests.org/plans.htm>

Trees for Many Reasons (Lesson Plan)

<http://www.sd5.k12.mt.us/glaciereft/bottr312.htm>

Tree Rings <http://www.monroe2boces.org/shared/esp/treering.htm>

Education World's Learning About Trees K-2

http://www.educationworld.com/a_tsl/archives/01-1/lesson0010.shtml

My Life as a Tree Lesson Plan

<http://www.lessonplanspage.com/ScienceSSMyLifeAsATree-RingsBarkCambiumHeartwoodK4.htm>

The Great Kapok Tree Lesson

<http://atozteacherstuff.com/lessons/GreatKapokTree.shtml>

Trees Trees Trees (AskERIC Lesson Plans)

<http://askeric.org/Virtual/Lessons/Science/Botany/BOT0062.html>

Uses of Trees Lesson <http://www.halcyon.com/marcs/trees.html>

THE Lorax's Save the Trees Game

<http://www.seussville.com/seussville/games/lorax/>

CLUSTER 2, COLOURS

Carmine's Color <http://www.sanford-artedventures.com/play/color1/color1.html>

PBS Sagwa Color and Draw <http://pbskids.org/sagwa/color/index.html>

KinderArt Littles Color <http://www.kinderart.com/littles/colorfm.shtml>

KinderArt Lessons <http://kinderart.com/index.html>

Exploring Color

<http://www.minnetonka.k12.mn.us/science/lessons/early/expcolor.html>

Early Childhood Art Lessons

<http://www.princetonol.com/groups/iad/lessons/early/early.html>

Color Theory Vocabulary <http://members.cox.net/mrsparker2/vocab.htm>

CLUSTER 3, PAPER

Paper, Part of Our Everyday Lives

<http://www.afandpa.org/products/products.html>

How Paper is Made <http://www.idahoforests.org/paprmake.htm>

Paper Online - Portal to the Paper World <http://www.paperonline.org/>

Exploratorium's Handmade Paper

<http://www.exploratorium.edu/exploring/paper/handmade.html>

Kindergarten Classes Making Paper

<http://www.belmont.k12.ca.us/main/cipriani/classes/kindergarten/Making%20Paper.htm>

"New Projects" Using Paper <http://www.riversidepaper.com/projects.htm>

Paper Weaving Lesson Plan <http://www.dickblick.com/lessonplans/paperweaving/>

Paper Masks <http://www.geocities.com/Broadway/Alley/3765/papermasks.html>

KinderArt Colorful Paper Masks:

<http://www.kinderart.com/multic/cpapermask.shtml>

KinderArt Paper Mache Masks <http://www.kinderart.com/multic/machemask.shtml>

Paper Snowflakes <http://www.highhopes.com/snowflakes.html>

Paper Sculpture Trees

http://www.meininger.com/ArtEdResPages/paper_sculpt_tree.cfm

Paper Finger Puppets

<http://www.enchantedlearning.com/crafts/puppets/twofinger/>

Paper Bag Puppets <http://www.funroom.com/paperbagpuppet.html>

Paper Bag Puppets http://www.dltk-kids.com/type/paper_bag.htm

GRADE 1 BOOKMARKS

CLUSTER 1, CHARACTERISTICS AND NEEDS OF LIVING THINGS

Tour of the Toronto Zoo: Characteristics & Needs of Living Things

<http://www.torontozoo.com/education/pdfs/GradeOnephoto.pdf>

Characteristics and Needs of Living Things (Links to Plants and Animals)

<http://www.gecdsb.on.ca/d&g/scitech/science/strands/ls1.htm>

Sir Robert Hitcham's Habitats Page

<http://www.hitchams.suffolk.sch.uk/habitats/index.htm>

Online Field Guides http://www.enature.com/guides/select_group.asp

The Web of Life <http://www.kidsplanet.org/wol/index.html>

Animal Cams <http://school.discovery.com/schooladventures/animalcams/>

CLUSTER 2, THE SENSES

Come To Your Senses (Mr. Potato Head) <http://tqjunior.thinkquest.org/3750/>

The Senses <http://faculty.washington.edu/chudler/chsense.html>

Five Senses <http://www.sedl.org/scimath/pasopartners/senses/welcome.html>

The 5 Senses <http://student.biology.arizona.edu/sciconn/nicktext.html>
The Senses http://infozone.imcpl.org/cgi-bin/izone.pl?7_4_2+3
Five Senses in Spring <http://www.monroe2boces.org/shared/esp/sprngsenses.htm>
Seeing, hearing, and Smelling the World <http://www.hhmi.org/senses/>
Ten Activities for Teaching the Five Senses http://www.education-world.com/a_lesson/lesson183.shtml
Five Senses (Background Information and 12 Activities)
http://www.uen.org/utahlink/lp_res/TRB028.html
Our Sense of Touch <http://faculty.washington.edu/chudler/twopt.html>
Tasting (The Franklin Institute) <http://sln.fi.edu/qa97/me12/me12.html>
That's Tasty (Neuroscience for Kids) <http://faculty.washington.edu/chudler/tasty.html>
Hearing (National Institute on Deafness) <http://www.nidcd.nih.gov/health/kids/index.htm>
What's That Smell? The Nose Knows http://www.kidshealth.org/kid/body/nose_SW.html
Sight/Vision (Neuroscience for Kids) <http://faculty.washington.edu/chudler/chvision.html>
How Guide Dogs Work <http://www.howstuffworks.com/guide-dog.htm>

CLUSTER 3, CHARACTERISTICS OF OBJECTS AND MATERIALS

Recycle City <http://www.epa.gov/recyclecity/mainmap.htm>
It's Only a Pencil <http://www.mii.org/pdfs/every/pencil.pdf>
Materials Science: Everything is Made of Something
http://www.jhu.edu/~matsci/people/faculty/erlebacher/what_is_materials_science.htm

CLUSTER 4, DAILY AND SEASONAL CHANGES

Lesson, Day and Night http://faldo.atmos.uiuc.edu/w_unit/LESSONS/day.night.html
Day and Night Lessons <http://faldo.atmos.uiuc.edu/CLA/LESSONS/51.html>
Creatures of the Night and You <http://tqjunior.thinkquest.org/5135/>
Humans Surviving the Seasons <http://www.uen.org/Lessonplan/preview.cgi?LPid=737>
Animals Surviving the Seasons <http://www.uen.org/Lessonplan/preview.cgi?LPid=738>
Manitoba Animals and Plants in Spring, Summer, Fall, Winter <http://collection.nlc-bnc.ca/100/201/300/naturenorth/2000/front2.html>
Animals in Winter <http://www.monroe2boces.org/shared/esp/winteranimals.htm>
How do Animals Spent the Winter? <http://www.sciencemadesimple.com/animals.html>
Sun Clocks (Lesson Plans and Activities)
<http://www.fi.edu/time/Journey/Sundials/lessons.htm>
Thursday's Classroom, The Four Seasons (NASA)
http://www.thursdaysclassroom.com/index_23sep99.html
The Seasons (Background Information and 12 Activities)
http://www.uen.org/utahlink/lp_res/TRB030.html
When Do Leaves Change? (Activities)
<http://www.monroe2boces.org/shared/esp/autumleaves.htm>
Studying Snowflakes <http://www.monroe2boces.org/shared/esp/snowflake.htm>
Insulation (Keeping Warm in Winter)
<http://www.monroe2boces.org/shared/esp/warmth.htm>
Rain Studies <http://www.monroe2boces.org/shared/esp/rain.htm>
Keeping Cool in Summer Heat <http://www.monroe2boces.org/shared/esp/dogdays.htm>
Here Comes the Sun (Activities) <http://www.monroe2boces.org/shared/esp/sun.htm>
Snow Crystals (Photographs) <http://www.its.caltech.edu/~atomic/snowcrystals/>

GRADE 2 BOOKMARKS

CLUSTER 1, GROWTH AND CHANGES IN ANIMALS

My Body (KidsHealth) <http://www.kidshealth.org/kid/body/mybody.html>
Your Gross and Cool Body <http://yucky.kids.discovery.com/body/>
Staying Healthy http://www.kidshealth.org/kid/stay_healthy/
Canada's Food Guide to Healthy Eating <http://www.nms.on.ca/Elementary/canada.htm>
Canada's Food Guide (Health Canada) <http://www.hc-sc.gc.ca/hppb/nutrition/pube/foodguid/index.html>
Nutrition Explorations <http://www.nutritionexplorations.org/>
Kids Food Cyber Club <http://www.kidfood.org/>
Dole 5 A Day <http://www.dole5aday.com/>
Vertebrate Animal Hotlist (The Franklin Institute Online)
<http://www.fi.edu/tfi/hotlists/animals.html>
Animal Variation (Background Information and 13 Lessons)
http://www.uen.org/utahlink/lp_res/TRB029.html
Amphibians of Manitoba <http://www.naturenorth.com/1np/Species/amphibian/1Spec-am.html>
Tour of the Toronto Zoo: Growth & Changes in Animals
<http://www.torontozoo.com/education/pdfs/GradeTwowithPhoto.pdf>
Following the Mealworm's Metamorphosis (AskERIC) <http://ericir.syr.edu/cgi-bin/printlessons.cgi/Virtual/Lessons/Science/Entomology/ENT0026.html>
The Butterfly Life Cycle <http://www.stradsch.sa.edu.au/miers/index.html>
The Butterfly Website <http://butterflywebsite.com/>
Monarchs and Migration <http://www.smm.org/sln/monarchs/>
All about Frogs for Kids and Teachers <http://www.kiddyhouse.com/Themes/frogs/>
Frogs <http://www.exploratorium.edu/frogs/index.html>
Reptiles and Amphibians <http://www.libsci.sc.edu/miller/Reptiles.htm>
The Salmon Page <http://www.riverdale.k12.or.us/salmon.htm>
The Owl Pages <http://www.owlpages.com/>
The Growth and Care of Chickens
http://www.qsa.qld.edu.au/yrs1_10/kla/other_studies/agaware/growcare.pdf
All About Birds <http://www.enchantedlearning.com/subjects/birds/>
Bats <http://www.cccoe.k12.ca.us/bats/welcome.html>
Animaland <http://www.animaland.org/>
The Children's Butterfly Site
http://www.mesc.usgs.gov/resources/education/butterfly/bfly_start.asp
Crickets in the Classroom (Lessons)
http://members.attcanada.ca/~ecade/cricket_n_classroom.html
The Bumblebee <http://www.mearns.org.uk/mrsmith/bees/>
Myrm's Ant Nest <http://www.antnest.co.uk/>
Ants <http://home.att.net/~B-P.TRUSCIO/STRANGER.htm>
Spiders <http://www.angelfire.com/tx4/lessons/spider3.html>
The Tarantula's Burrow <http://www.arachnophiliac.com/burrow/home.htm>
Spiders <http://www.sedl.org/scimath/pasopartners/spiders/>
Insect Metamorphosis
http://www.uen.org/utahlink/activities/view_activity.cgi?activity_id=2024
About Mealworms <http://www.iwrc-online.org/rehab/mealworms.htm>
Welcome to the Wonderful World of Insects <http://www.earthlife.net/insects/six.html>
Insect Collecting Techniques
<http://www.uky.edu/Agriculture/Entomology/ythfacts/bugfun/collecti.htm>

Entomology for Beginners <http://www.bijlmakers.com/entomology/begin.htm>
Teachers/Parent Resource Materials (and Lesson Plans)
<http://www.uky.edu/Agriculture/Entomology/ythfacts/resourc/resourc.htm>

CLUSTER 2, PROPERTIES OF SOLIDS, LIQUIDS, AND GASES

Matter (Chem4Kids) http://www.chem4kids.com/files/matter_intro.html
Matter (Background Information and 5 Lessons)
http://www.uen.org/utahlink/lp_res/TRB007.html
The Water Cycle http://faldo.atmos.uiuc.edu/w_unit/LESSONS/water.cycle.html
The Water Cycle <http://www.epa.gov/region07/kids/wtrcycle.htm>
What is Matter? <http://www.nyu.edu/pages/mathmol/textbook/statesofmatter.html>
States of Matter <http://www.iit.edu/~smile/ph9516.html>
States of Matter <http://www.chem.purdue.edu/gchelp/atoms/states.html>
Solid, Liquid, and Gaseous States of Matter <http://www.school-for-champions.com/science/matterstates.htm>
States of Matter http://www2.ncsu.edu/ncsu/chemistry/outreach/states_of_matter.html
States of Water (Background Information and 11 Lesson Plans)
http://www.uen.org/utahlink/lp_res/TRB041.html

CLUSTER 3, POSITION AND MOTION

Friction (Thinking Fountain) <http://www.smm.org/sln/tf/f/friction/friction.html>
What is Friction <http://www.fearofphysics.com/Friction/frintro.html>
Friction in Our Lives <http://school.discovery.com/lessonplans/programs/frictioninourlives/>
The Inclined Plane <http://weirdrichard.com/inclined.htm>
The Inclined Plane
<http://www.sd68.k12.il.us/schools/highland/mcnulty/simplemachines/incline.htm>
Inclined Plane
http://www.coe.uh.edu/archive/science/science_lessons/scienceles1/plane.htm
The Wheel and Axle <http://www.fcps.k12.va.us/DeerParkES/kids/rodriguez/whaxle.htm>
The Wheel & Axle
<http://www.sd68.k12.il.us/schools/highland/mcnulty/simplemachines/wheel.htm>

CLUSTER 4, AIR AND WATER IN THE ENVIRONMENT

Sink It (Science NetLinks)
<http://www.sciencenetlinks.com/lessons.cfm?BenchmarkID=1&DocID=125>
Properties of Air (Science NetLinks)
<http://www.sciencenetlinks.com/lessons.cfm?BenchmarkID=4&DocID=156>
Air: You Can't See It, But It's There!
<http://www.tnrcc.state.tx.us/air/monops/lessons/airlesson.html>
Wind (The Franklin Institute Online) <http://sln.fi.edu/tfi/units/energy/wind.html>
Thinking Fountain Air Cluster <http://www.smm.org/sln/tf/nav/aircluster.html>
20 Kids, 20 Kites, 20 Minutes <http://www.aloha.net/~bigwind/20kidskites.html>
Make Your Own Kite <http://www.skratch-pad.com/kites/make.html>
Flat Kites <http://www.kites.org/zoo/single/flat/flat.html>
Make an Anemometer <http://www.energyquest.ca.gov/projects/anemometer.html>
Parachuting Pinwheel
<http://www.smm.org/sln/tf/p/parachutingpinwheel/parachutingpinwheel.html>

Whirling Wonders <http://www.smm.org/sln/ff/w/whirlingwonders/whirlingwonders.html>
Wump World Activities <http://www.tnrcc.state.tx.us/air/monops/lessons/wumplesson.html>
The Rubber Band Air Test
<http://www.tnrcc.state.tx.us/air/monops/lessons/rubberlesson.html>
Air Quality and Transportation
<http://www.tnrcc.state.tx.us/air/monops/lessons/carlesson.html>
Acid Rain: The Disappearing Statue
<http://www.tnrcc.state.tx.us/air/monops/lessons/statuelesson.html>
Water Related Lessons <http://nesen.unl.edu/lessons/lessonlist.asp?topic=Water>
Water Science for Schools <http://ga.water.usgs.gov/edu/mearth.html>
Water for Kids <http://www.epa.gov/water/kids/waterforkids.html>
Drinking Water http://www.epa.gov/region07/kids/drnk_b.htm
What's Evaporation?
<http://www.reachoutmichigan.org/funexperiments/quick/whatsevaporation.html>
Water Characteristics (Background Information and 7 Lessons)
http://www.uen.org/utahlink/lp_res/TRB040.html

GRADE 3 BOOKMARKS

CLUSTER 1, GROWTH AND CHANGES IN PLANTS

Tour of the Toronto Zoo: Growth & Changes in Plants
<http://www.torontozoo.com/education/pdfs/GradeThreewithPhoto.pdf>
Lessons for Teaching about Plants http://www.education-world.com/a_lesson/lesson259.shtml
Plants (Background Information and 11 Lessons)
http://www.uen.org/utahlink/lp_res/TRB042.html
The Circle of Life: Plants (The Franklin Institute Online)
<http://www.fi.edu/tfi/units/life/living/living.html>
Plants and Our Environment <http://tqjunior.thinkquest.org/3715/>
Plants Solve Problems of Survival <http://www.adopt-a-watershed.org/matrix/pspos.htm>
Gardening for Kids <http://www.geocities.com/EnchantedForest/Glade/3313/>
Kids Gardening <http://www.kidsgardening.com/>
From Seed to Seed <http://www.kidsgardening.com/onlinecourse/sneakpreview.htm>
Plants: A Teacher Resource Guide <http://www.ed.uri.edu/smartprojects/plants.html>
The Great Plant Escape <http://www.urbanext.uiuc.edu/gpe/>
Gardening for Kids Websites <http://gardeninglaunchpad.com/kids.html>
Constructing a Terrarium <http://ndsuxext.nodak.edu/extnews/askext/indoor/23.htm>
The Magic Terrarium <http://www.terrariums.net/terrcare.html>

CLUSTER 2, MATERIALS AND STRUCTURES

Structures <http://fp.keystage3dt.f9.co.uk/structures.htm>
Structures <http://www.yesmag.bc.ca/focus/structures/structures.html>
Structures Around the World <http://www.exploratorium.edu/structures/>
International Database and Gallery of Structures
<http://www.structurae.de/en/structures/index.php>
Building Big (Bridges, Dome, Skyscrapers, Dams, and Tunnels)
<http://www.pbs.org/wgbh/buildingbig/>
Cable Supported Structures <http://www.struct.kth.se/people/raid/cable.htm>
Forces, Materials, Loads, and Shapes Activities
<http://www.pbs.org/wgbh/buildingbig/lab/index.html>

Building Big Educator's Guide

http://www.pbs.org/wgbh/buildingbig/educator/act_index.html

Build a Bridge <http://www.pbs.org/wgbh/nova/bridge/build.html>

Bridge Building: Art and Science <http://www.brantacan.co.uk/bridges.htm>

Roman Bridges and Bridge Building <http://myron.sjsu.edu/romeweb/engineer/art2.htm>

Joining Materials

<http://www.bbc.co.uk/schools/gcsebitesize/design/resistmat/joiningmaterialsrev1.shtml>

Joining Materials (Permanent and Non-permanent)

<http://www.ened.com/students/matdes/matdes07.html>

Properties of Materials (3 pages)

<http://www.btinternet.com/%7Ehognosesam/gcse/page12.html>

<http://www.btinternet.com/%7Ehognosesam/gcse/page13.html>

<http://www.btinternet.com/%7Ehognosesam/gcse/page14.html>

Designing and Making Things with Materials

<http://www.ened.com/students/matdes/matdes01.html>

Super Structures (Junk Box Wars) <http://sciencespot.net/Media/junkboxwars.pdf>

Bridge Challenge (Junk Box Wars) <http://sciencespot.net/Media/junkboxbridge.pdf>

Geodesic Clubhouse <http://www.yesmag.bc.ca/projects/geodesic.html>

CLUSTER 3, FORCES THAT ATTRACT OR REPEL

Magnets 1: Magnetic Pick-ups (Science NetLinks)

<http://www.sciencenetlinks.com/lessons.cfm?BenchmarkID=4&DocID=175>

Magnets 2: How Strong is Your Magnet?

<http://www.sciencenetlinks.com/lessons.cfm?BenchmarkID=4&DocID=159>

Magnetism and Electricity (Foss) [http://www.fossweb.com/cgi-](http://www.fossweb.com/cgi-bin/fossweb/module.pl?module=ME)

[bin/fossweb/module.pl?module=ME](http://www.fossweb.com/cgi-bin/fossweb/module.pl?module=ME)

Magnet Man: Cool Experiments with Magnets

<http://my.execpc.com/~rheadley/magindex.htm>

Science Magnets and You

<http://education.magnet.fsu.edu/materials/magnets/magnets.html>

How is a Magnet Made? <http://education.magnet.fsu.edu/FAQ/FAQ3.html>

Magnets (Background Information and 7 Activities)

http://www.uen.org/utahlink/lp_res/TRB031.html

Magnets at Work

http://www.magnequench.com/tech_resources/education/magnets_at_work.html

Migration and Magnetism http://whyfiles.org/shorties/088turtle_migrate/index.html

Balloon Charge <http://www.schoolnet.ca/general/electric-club/e/page2.html>

Charge It! <http://www.schoolnet.ca/general/electric-club/e/page3.html>

How Compasses Work <http://www.howstuffworks.com/compass.htm>

How Magna Doodle Works <http://www.howstuffworks.com/magna-doodle.htm>

How Photocopiers Work <http://www.howstuffworks.com/photocopier.htm>

Create a Marble Maze (Junk Box Wars) <http://sciencespot.net/Media/junkboxmarble.pdf>

CLUSTER 4, SOIL IN THE ENVIRONMENT

The Dirt on Soil (DiscoverySchool.com)

<http://school.discovery.com/schooladventures/soil/>

What's in Soil? (Science NetLinks)

<http://www.sciencenetlinks.com/lessons.cfm?BenchmarkID=4&DocID=152>

Microbe Zoo, Dirtland <http://commtechlab.msu.edu/sites/dlc-me/zoo/zdmain.html>

S.K. Worm Answers your Questions about Soil and Stuff
<http://www.nrcs.usda.gov/feature/education/squirm/skworm.html>
Soil Web Interesting Soil Web Sites <http://soilweb.tripod.com/soilsite.htm>
Soil Animals <http://www.agric.uwa.edu.au/soils/soilhealth/animals/>
Soil Organic Matter <http://www.agric.uwa.edu.au/soils/soilhealth/organic/index.htm>
What's in Soil? (Science NetLinks)
<http://www.sciencenetlinks.com/lessons.cfm?DocID=152>
What is Soil? http://www.crop.cri.nz/psp/articles/docs/what_is_soil.htm
The Soil Around Us Project
http://www.youthlearn.org/learning/activities/inter/soil_project/overview.html
Underground Adventure (The Field Museum) <http://www.fmnh.org/ua/default.htm>
Soil Related Lessons <http://nesen.unl.edu/lessons/soils/soilslessons.asp>
Composting in Schools <http://www.cfe.cornell.edu/compost/schools.html>
Worm World <http://yucky.kids.discovery.com/noflash/worm/>
Ants <http://home.att.net/~B-P.TRUSCIO/STRANGER.htm>
Welcome to the Rot Web! (Composting) http://www.a-horizon.com/compost/compost_menu.html
Composting with Red Wiggler Worms <http://www.cityfarmer.org/wormcomp61.html>
Young Person's Guide to Vermicomposting (Worm Digest)
http://www.wormdigest.org/article_12.html
Adobe by the Rio Grande <http://www.nmbuilder.com/Directions.html>
Clay Mine Adobe <http://www.claymineadobe.com/>
Solar Adobe Home Project <http://energycenter.utep.edu/adobe.html>
Recipe for Adobe Bricks <http://www.zetatalk.com/shelter/tshlt04c.htm>
Sod Houses <http://websteader.com/wbststd1.htm>
Sod Houses <http://www.plainsfolk.com/bowman/sod.htm>
Sod Buildings, Houses, Barns, School, Post Offices, Lean-tos
http://memory.loc.gov/ammem/award97/ndahtml/hult_sod.html
Interviews with People who Lived in Sod Houses
<http://www.bbbs.k12.ne.us/custer/academics/sodhouse/interview.htm>

GRADE 4 BOOKMARKS

CLUSTER 1, HABITATS AND COMMUNITIES

Ecosystems, Biomes, and Habitats (The Franklin Institute Online)
<http://www.fi.edu/tfi/units/life/habitat/habitat.html>
Tour of the Toronto Zoo: Animal Habitats & Communities
<http://www.torontozoo.com/education/pdfs/GradeFourwphoto.pdf>
Sir Robert Hitcham's Wildplaces <http://www.panda.org/kids/wildlife/idxregmn.htm>
Biomes and Habitats <http://www.enchantedlearning.com/biomes/>
Habitats (Background Information and 8 Lessons)
http://www.uen.org/utahlink/lp_res/TRB010.html
Biomes of the World + Freshwater and Marine Ecosystems
<http://mbgnet.mobot.org/index.htm>
World Biomes <http://www.ucmp.berkeley.edu/glossary/gloss5/biome/>
Animal Habitata <http://www.greeceny.com/lis/grade4/>
Kids Planet <http://www.kidsplanet.org/>
Endangered Species Fact Sheet <http://www.kidsplanet.org/factsheets/map.html>
Ocean Animals <http://mbgnet.mobot.org/salt/animals/>
History of the Northern Cod <http://www.stemnet.nf.ca/cod/home1.htm>
Explora-Pond <http://www.uen.org/utahlink/pond/>

Animals of the Arctic (Webquest) <http://tjunior.thinkquest.org/3500/>
Virtual Rainforest <http://www.bsrsi.msu.edu/rfrc/tour/index.html>
Biomes in a Box <http://www.accessexcellence.com/AE/AEPC/WWC/1991/biomes.html>
Columbia University's Biosphere 2 Center <http://www.bio2.edu/virtualtour/index.htm>
Explore a Fantastic Forest
<http://www.nationalgeographic.com/forest/html/1contentindex.html>
Stream Biology <http://pweb.netcom.com/~crisi/index.htm>
Zoos and Conservation
<http://www.torontozoo.com/education/pdfs/ZoosConservation.pdf>

CLUSTER 2, LIGHT

Causes of Colors <http://webexhibits.org/causesofcolor/index.html>
How Light Works <http://www.howstuffworks.com/light.htm>
Color, Light and Optics Lesson Plans
http://www.physics.rutgers.edu/hex/visit/lesson/lesson_links1.html
Light and Optics, Lesson Plans
<http://www.educ.uvic.ca/Faculty/sockenden/edb363/1999/projects/LightOptics/lessons.htm>
Light, Shade, and Color <http://www.uffington.oxon.sch.uk/class1/lightdark.html>
Optics for Kids Lesson Plans http://www.opticsforkids.org/teach/article_k_4.cfm
Exploratorium's "Snacks about Light" <http://www.exploratorium.edu/snacks/iconlight.html>
Exploratorium's "Snacks about Perception"
<http://www.exploratorium.edu/snacks/iconperception.html>
What Causes Rainbows? <http://accept.la.asu.edu/PiN/act/rainbow/rainbow.shtml>
Glasses (Beakman & Jax) <http://www.beakman.com/glasses/eyeglasses.html>
Soda Bottle Kaleidoscope (NASA) http://optics.nasa.gov/soda_bottle.pdf
You can Create a Kaleidoscope <http://my.pclink.com/~jhaug/howto.html>
The Bent Pencil <http://accept.la.asu.edu/PiN/act/refract/refract.shtml>
Shadows and Sundials http://www.proteacher.com/cgi-bin/outside.cgi?external=http://www.owu.edu/~mggrote/pp/physics/f_physics.html&original=http://www.proteacher.com/110017.shtml&title=Project%20Primary:%20Physics
Light and Shadows
http://www.cedu.niu.edu/scied/student/lessonplans/team_2/fall_98/kidd_fall.htm
Shadow Colors #219 (The Teacher's Corner)
<http://www.theteacherscorner.net/science/experiments/colors.htm>
Splittine Sunlight (The Teacher's Corner) <http://www.rom.on.ca/wwatch/teachers-kit/splitting.html>
Disappearing Glass Rods (The Teacher's Corner)
<http://www.rom.on.ca/wwatch/teachers-kit/disappearing.html>

CLUSTER 3, SOUND

Sound Lesson Plans http://www.physics.rutgers.edu/hex/visit/lesson/lesson_links1.html
The Sundry (Think Quest)
http://www.thinkquest.org/library/lib/site_sum_outside.html?tname=19537&url=19537/Physics2.html
Sound Connexions (Canada Science and Technology Museum Lesson Plans)
<http://www.science-tech.nmstc.ca/english/schoolzone/sound.cfm>
Sound (Sites for Lessons) <http://www.kathimitchell.com/sound.htm>
Physics of Sound <http://www.cssd11.k12.co.us/science/4sound/4sound.htm>

Physics of Sound (Foss) <http://www.fossweb.com/cgi-bin/fossweb/module.pl?module=Sound>
Ask the Experts, Sound http://www.physlink.com/Education/AskExperts/ae_sound.cfm
Sensing Pitch or Sound Frequencies <http://www.school-for-champions.com/senses/hearpitch.htm>
How We Hear http://www.fearofphysics.com/Sound/dist_hear.html
Play Some Pure Tones <http://www.fearofphysics.com/Sound/sounds.html>
Energy in the Air: Sounds from the Orchestra <http://tjunior.thinkquest.org/5116/>
Have You Ever Wondered about the Ear and Hearing? (National Deaf Education Network) <http://clerccenter.gallaudet.edu/InfoToGo/567/567.html>
The Ear and Try Some Experiments that Test Your Hearing <http://faculty.washington.edu/chudler/bigear.html>
Let's Hear it for the Ear (My Body) http://www.kidshealth.org/kid/body/ear_SW.html
Anatomical Tour of the Ear <http://www.earaces.com/anatomy.htm>
Virtual Tour of the Ear <http://ctl.augie.edu/perry/ear/ear.htm>
How Hearing Works <http://www.howstuffworks.com/hearing.htm>
Can I Damage my Hearing by Listening to Loud Music? (Newton's Apple) <http://www.ktca.org/newtons/13/hear.html>
Toxic Noise (National Campaign for Hearing Health) <http://www.hearinghealth.net/pages/toxicnoise/index.html>
What is a Cochlear Implant? <http://www.medoto.unimelb.edu.au/info/implant1.htm>
Hearing Dogs of Canada <http://www.dogguides.com/programs/programs03.htm>
Hearing Ear Dogs http://www.k9man.com/hearing_ear_dog.htm
The Communications Revolution <http://www.vislab.usyd.edu.au/photonics/revolution/index.html>
Invention of Radio <http://inventors.about.com/library/inventors/blradio.htm>
Invention of Telephone <http://www.top-biography.com/9022-Graham%20Bell/telephone.htm>
History of Hearing Aids <http://www.pbs.org/wnet/soundandfury/cochlear/hearingaids.html>
Bird Songs <http://www.math.sunysb.edu/~tony/birds/>
Whale Songs <http://www.whalesongs.org/>

CLUSTER 4, ROCKS, MINERALS, AND EROSION

Rocks for Kids <http://www.rocksforkids.com/index.html>
Natural Resources Canada, Educational Resources <http://www.nrcan.gc.ca/mms/school/resour.htm>
Rockhounds <http://www.fi.edu/fellows/fellow1/oct98/index2.html>
Rocks and Minerals Detectives <http://cte.jhu.edu/techacademy/fellows/brannon/webquest/kmbindex.html>
Geological Survey of Canada, Educational Sites http://www.nrcan.gc.ca/gsc/education_e.html
Our Hidden Treasures (NRC) <http://www.nrcan.gc.ca/mms/week/treas-e.htm>
History of Mining in Canada <http://www.halloffame.mining.ca/english/industry.html>
Canadian Junior Rockhound <http://www.canadianrockhound.com/junior/index.html>
Canadian Landscapes <http://sts.gsc.nrcan.gc.ca/clf/landscapes.asp>
Dynamic Earth (Inco Limited) <http://www.rom.on.ca/earth/>
Terrasphere http://www.geography4kids.com/files/earth_terrasphere.html
Earth Lesson Plans http://www.physics.rutgers.edu/hex/visit/lesson/lesson_links1.html
Rocks (Background Information and 6 Lessons) http://www.uen.org/utahlink/lp_res/TRB008.html

Hands-On Earth Science <http://www.dnr.state.oh.us/geosurvey/edu/handson.htm>
K – 12 Earth Science <http://www.beloit.edu/~SEPM/>
Why Do We Mine? <http://www.aps.k12.co.us/montview/teacher/rockmineral/why.pdf>
Dictionary of Mining, Minerals, and Related Terms <http://imcg.wr.usgs.gov/dmmrt/>
USGA Mud Fossils
http://interactive2.usgs.gov/learningweb/teachers/mudfossils_activity.htm
USGA Rocks and Images
http://interactive2.usgs.gov/learningweb/explorer/topic_rocks.htm
Rocks and Minerals Slide Show
<http://volcano.und.nodak.edu/vwdocs/vwlessons/lessons/Slideshow/Slideindex.html>
Volcano World (University of North Dakota) <http://volcano.und.nodak.edu/>
Mineralogy Database <http://web.wt.net/~daba/Mineral/>
The Rock Cycle http://www.science.ubc.ca/~geol202/rock_cycle/rockcycle.html
Exploring the Environment (Volcanoes)
<http://geollab.jmu.edu/Fichter/IgnRx/Introigrx.html>
Earthforce (Franklin Institute Online) <http://www.fi.edu/earth/index.html>
Going, Going Gone (The Why Files, Palaeontology)
<http://whyfiles.org/029dinos/index.html>
Athena Mineral Pictures
http://un2sg4.unige.ch/athena/mineral/images/minpic_frame0.html
Metamorphic Rock Pancakes <http://explorer.scrtec.org/explorer/explorer-db/rsrc/783750742-447DED81.2.PDF>
Earth Materials (Foss) <http://www.fossweb.com/cgi-bin/fossweb/module.pl?module=Earth>
Changes Blowing and Flowing <http://www.uen.org/Lessonplan/preview.cgi?LPid=783>
Erosion in the Wind <http://www.uen.org/Lessonplan/preview.cgi?LPid=785>
Water Erosion <http://www.uen.org/Lessonplan/preview.cgi?LPid=784>