

5 th grade Unit	Website	Description
Investigation	http://teacher.scholastic.com/activities/sciencewriting/	<i>In this workshop you will: publish and explore science reports online; use your notes and research for maximum effect; and successfully structure your science report. This workshop will be most helpful if you've already done your research on a topic that interests you.</i>
Matter and Physical Properties	http://www.bbc.co.uk/schools/ks2bitesize/science/materials/solids_liquids/play.shtml	<i>Students explore how increasing or decreasing the amount of heat can change matter by melting and freezing objects. Scroll down to the bottom of the screen to read and take a quiz.</i>
Matter and Physical Properties	http://www.harcourtschool.com/activity/hotplate/index.html	Interact with objects with different melting and boiling points.
Matter and Physical Properties	http://www.bbc.co.uk/schools/podmission/solidsandliquids/annie02.shtml	Student interacts with melting and boiling point scenario with Annie. Click on Ollo the robot to read about temperature once the interactive part is complete.
Matter and Physical Properties	http://www.amnh.org/ology/xCards/index.php?cardNumber=172	Learn more about the difference between mass and weight with this short interactive site.
Energy- Uses of Energy	http://www.harcourtschool.com/activity/science_up_close/520/deploy/interface.html	Explore how something that works or look that cannot be seen.
Energy- Uses of Energy	http://www.harcourtschool.com/activity/science_up_close/305/deploy/interface.html	Explore how something that works or look that cannot be seen.
Energy- Electricity	http://www.bbc.co.uk/schools/ks2bitesize/science/physical_processes/circuits_conductors/play.shtml	Interact with electric circuits. When the simulation is complete, scroll to the bottom of the page to read more about it and take a quiz.
Energy- Electricity	http://www.bbc.co.uk/schools/ks2bitesize/science/physical_processes/changing_circuits/play.shtml	This extension interactive sites provides a challenge for students. When the simulation is complete, scroll to the bottom of the page to read more about it and take a quiz.
Energy- Electricity	http://www.harcourtschool.com/activity/science_up_close/404/deploy/interface.html	Discover what happens to the current in an electric circuit and water circuit.
Energy- Light	http://www.bbc.co.uk/schools/ks2bitesize/science/physical_processes/how_we_see_things/play.shtml	Students practice using objects to reflect light through this interactive site. When the simulation is complete, scroll to the bottom of the page to read more about it and take a quiz.
Changing Earth	http://www.harcourtschool.com/activity/science_up_close/112/deploy/interface.html	Erosion made the grand canyon clip. Explain in a 5E
Changing Earth	http://www.neok12.com/diagram/Energy-Sources-01.htm	Students identify alternative energy, renewable, and nonrenewable resources with this interactive site.

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Changing Earth	http://www.abc.net.au/beasts/playground/fossils.htm	Students explore the conditions needed to make fossils with this interactive site.
Changing Earth	http://www.harcourtschool.com/activity/science_up_close/207/deploy/interface.html	Fossil formed. Explain in 5E
Changing Earth	http://www.harcourtschool.com/activity/science_up_close/306/deploy/interface.html	How are fossils formed? Explore how fossils are formed and their relationship to sedimentary rocks. Text passages are included
Changing Earth	http://www2.scholastic.com/browse/collection.jsp?id=475	5.7D Find how fossils offer up clues about early Earth. Watch the video, view the slideshow, plus read articles from Science World, the award-winning science magazine, and check out online activities.
Weather	http://www.harcourtschool.com/activity/science_up_close/508/deploy/interface.html	Discover how the water cycle affects weather and ecosystem conditions. Learn how mountain barriers affect where water will precipitate in some areas.
Weather	http://www.amnh.org/ology/index.php?channel=climatechange#features/stufftodo_earth/weather_climate.php?TB_iframe=true&height=550&width=750	Explore the difference between climate and weather.
Weather	http://teacher.scholastic.com/activities/wwatch/investigate/weather_maker.htm	5.8A- Investigate: Explore Climate Conditions by manipulating the weather with the Weather Maker. Interactive as well.
Weather	http://www.neok12.com/diagram/Water-Cycle-01.htm	Water Cycle: Label the parts of the water cycle as an assessment or pre-assessment.
Weather	http://www.fossweb.com/modules3-6/WaterPlanet/activities/watercycle.html	Explore how water travels through the Earth.
Weather	http://gtm-media.discoveryeducation.com/videos/dsc/externalApplications/simulations-Explorations/Content/Resources/ES_3_2_4_Climate/Flash/ES_3_2_4_Climate.html	5.8C- Weather tells you what the next few days are going to be like: hot, cold, rainy, or windy. Climate tells you what the weather is going to be like for next 30 years. Let's explore some factors that affect climate.
Weather	http://gtm-media.discoveryeducation.com/videos/dsc/externalApplications/simulations-Explorations/Content/Resources/ES_3_2_4_Climate/Flash/ES_3_2_4_Climate.html http://player.discoveryeducation.com/index.cfm?guidAssetId=e7282e77-402e-4c69-b97a-06f9a0cf5d67	5.8CA What is the climate like where you live? Climate of a place depends on the temperature and rainfall. Different parts of the world have different types of climates. Scientists have tried to group regions having the same climate. Let's explore the different types of climate.
Earth, Moon, and Sun	http://www.bbc.co.uk/schools/ks2bite_size/science/physical_processes/earth_sun_moon/play.shtml	5.8 C and D Interactions
Earth, Moon, and Sun	http://teacher.scholastic.com/activities/explorations/space/index.htm	5.8D- Gravity on the Moon; and Gravity, temperature, and atmosphere combine to make Earth our perfect home. Level 1 only please.
Earth, Moon, and Sun	http://www.amnh.org/ology/index.php?channel=astronomy#features/sun?TB_iframe=true&height=420&width=640	5.8D- Sun Interview, "One-on-one with the Sun": Students learn about the Sun's characteristics.
Earth, Moon, and Sun	http://www.amnh.org/ology/xCards/index.php?cardNumber=047	Interactive that provides characteristics about Sun.

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Earth, Moon, and Sun	http://www.amnh.org/ology/xCards/index.php?cardNumber=047	Interactive that provides characteristics about Earth.
Earth, Moon, and Sun	http://www.harcourtschool.com/activity/science_up_close/410/deploy/interface.html	Review the moon phases as a characteristic of the moon as it rotates and revolves.
Ecosystems	http://www.fossweb.com/modules3-6/StructuresofLife/activities/lifecycles.html	Interact with a variety of life cycles as a k-5 review or for remediation.
Ecosystems	http://www.harcourtschool.com/activity/exploring_ecosystems/index.html	A tour of three types of biomes (ecosystems) for review.
Ecosystems	http://www.kidsplanet.org/wol/page_13.html	The web of life. Text passages with animations
Ecosystems	http://www.neok12.com/diagram/Ecosystems-01.htm	Label the food chain and the names of ecosystems as an evaluation or pre-assessment of what students know before beginning the unit.
Ecosystems	http://www.lagoonadventure.org/?q=ecology	1. Students learn about lagoons (a wetland). 2. Students explore what keeps the lagoon healthy with <i>Lagoon Builder</i> .
Ecosystems	http://nationalzoo.si.edu/Education/ConservationCentral/walk/walk2_broadband.html	Interactive site: Explore decomposers within an ecosystem and identify animals within an ecosystem.
Ecosystems	http://www.sheppardsoftware.com/content/animals/kidscorner/games/producersconsumersgame.htm	Play game by identifying producers, consumers, and decomposers. There are also icons to click on for reading about herbivores, carnivores, omnivores, and producers.
Organisms and Environments	http://www.bbc.co.uk/schools/ks2bite_size/science/living_things/food_chains/play.shtml	Interact with an environment and its food web.
Ecosystems	http://www.mhschool.com/science/2008/student/na/scienceinmotion/Common/SIM.html?Module=../Grade4/Chapter3-MicroorganismsAtWork/	Mini-clip about decomposers
Ecosystems	http://www.harcourtschool.com/activity/exploring_ecosystems/index.html	Explore the flow of energy within ecosystems and what would happen if they become unbalanced. Requires a laptop or computer to read.
Ecosystems	http://www.harcourtschool.com/activity/science_up_close/517/deploy/interface.html	How does ground water become polluted due to human activities?
Ecosystems	http://www.amnh.org/ology/index.php?channel=climatechange#features/goinggone?TB_iframe=true&height=500&width=750	Explore what will happen to animals, plants, and environments. Interactive text passages on computer.
Ecosystems	http://pbskids.org/eekoworld/index.html?load=air_water	5.9C & 5.1B- What happens to our ecosystems when air and water are polluted by humans?
Ecosystems	http://www.neok12.com/diagram/Carbon-Cycle-01.htm	Students label the parts to the carbon cycle and can print out their results.
Ecosystems	http://www.harcourtschool.com/activity/science_up_close/519/deploy/interface.html	Short simplistic clip about where carbon can be found and why it is important.
Characteristics of Organisms	http://www.harcourtschool.com/activity/science_up_close/514/deploy/interface.html	Comparing the structure and function of animals. Reads aloud to students.
Characteristics of Organisms	http://www.webrangers.us/activities/who/?id=39	5.10A- Who am I? Students use physical characteristic and environmental clues to identify the animal.

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Characteristics of Organisms	http://www.wildlife.state.nh.us/Kids/Wildtimes_issues/Wildtimes_issue16.pdf	Download this fantastic wildlife magazine to explore the inherited traits and behaviors that enable organisms to survive within their environments.
Characteristics of Organisms	http://www.harcourtschool.com/activity/animalneeds/	How do inherited traits enable animals to survive within an ecosystem?
Characteristics of Organisms	http://www.harcourtschool.com/activity/science_up_close/315/deploy/interface.html	Complete and Incomplete metamorphosis animated tutorial.
Characteristics of Organisms	http://teacher.scholastic.com/activities/explorations/bug/level1/investigate.htm	5.10C- Go to links below question 2. What's the difference between the life cycle on an animal that goes through complete metamorphosis and one that does not?
Characteristics of Organisms	http://www.neok12.com/diagram/Metamorphosis-01.htm	Review the life cycle of the frog as an incomplete metamorphosis with this interactive refresher.
Characteristics of Organisms	http://www.neok12.com/diagram/Metamorphosis-02.htm	Label the life cycle of a butterfly to practice a complete metamorphic change and label the parts of an insect.
Integrated Science	http://teacher.scholastic.com/activities/sciencewriting/	In this workshop you will: publish and explore science reports online; use your notes and research for maximum effect; and successfully structure your science report. This workshop will be most helpful if you've already done your research on a topic that interests you.

4 th grade Unit	URL	Description
Interdependence and Food Webs	http://www.pbs.org/wgbh/nova/methuselah/phot_flash.html	4.9A Photosynthesis: Interactive- Use tabs: The Cycle and Puzzlers only
Interdependence and Food Webs	http://www.harcourtschool.com/activity/science_up_close/311/deploy/interface.html	4.9A Photosynthesis: An animated tutorial featuring each part of the plant and its role with photosynthesis.
Interdependence and Food Webs	http://www.scholastic.com/magicschoolbus/games/sciencenews/index.htm	Photosynthesis- more of an interactive computer lab activity for reinforcement of concept.
Interdependence and Food Webs	http://earthguide.ucsd.edu/earthguide/diagrams/photosynthesis/photosynthesis.html	4.9A Photosynthesis happens on land and in the water. The animations show how light, carbon dioxide, water, and oxygen help a plant make its own food.
Interdependence and Food Webs	http://www.sheppardsoftware.com/content/animals/kidscorner/games/foodchaingame.htm	Begin with a simple food chain to a food web
Interdependence and Food Webs	http://www.sheppardsoftware.com/content/animals/kidscorner/games/animaldietgame.htm	Learn about herbivores, omnivores, and carnivores.
Interactions & Food Changes	http://pbskids.org/eekoworld/index.html?load=plants_animals	4.9B Explore how plants and animals are important in our lives as we interact with our environment. What will happen when the food webs are disrupted?
Interactions & Food Changes	http://www.harcourtschool.com/activity/food/food_menu.html	Interact by creating the correct food webs in three different ecosystems.
Interactions & Food Changes	http://www.wildlife.state.nh.us/Kids/Wildtimes_issues/Wildtimes_issue17.pdf	4.9B Download fantastic student magazine with student activities after the articles.
Interactions & Food Changes	http://magma.nationalgeographic.com/ngexplorer/0309/quickflicks/	Food chains and food webs on Brain Pop
Energy Transfer and Life Processes	http://www.harcourtschool.com/activity/exploring_ecosystems/arctic.html	Fourth grade studies the Tundra and Marine biomes. Explore the Arctic plains to understand more about cold ecosystems.
Energy Transfer and Life Processes	http://www.harcourtschool.com/activity/science_up_close/414/deploy/interface.html	Fourth grade studies the Tundra and Marine biomes. Explore and ocean food web.
Adaptations	http://teacher.scholastic.com/activities/explorations/adaptation/level1/	4.10A & 4.3A- Online, interaction of animal adaptations to their environment. Levels 1-3. Requires 'field book' to record answers to questions and notes.
Adaptations	http://www.nwf.org/Kids/~media/PDFs/Kids/Your%20Big%20Backyard/YBB_MAR11_ToucanStory_web.ashx	A short read about Toucans and their bills. Use as one resource to learn about bird beaks.
Inherited Traits and Learned Traits	http://www.arborday.org/trees/wtit/wtit.cfm	4.10B Likenesses between parents and offspring of trees are inherited and passed down from generation to generation.
Life Cycles	http://www.crickweb.co.uk/ks2science.html	Scroll down to "Life Cycles." Students complete Activity 1 and Activity 3.
Life Cycles	http://www.sheppardsoftware.com/scienceforkids/life_cycle/index.htm	Interactive game of a life cycle of a butterfly, frog, bird, and short video about life cycles.
Physical Properties	http://www.nyu.edu/pages/mathmol/textbook/whatismatter.html	Easy to follow reading about matter and the states of matter.
Heating and Cooling	http://www.harcourtschool.com/activity/science_up_close/501/deploy/interface.html	Watch the changes of water when heating and cooling are applied.
Heating and Cooling	http://www.crickweb.co.uk/ks2science.html	Scroll down to "Changing State." Students drop and drag the various states into their correct sequence. Press menu and apply what was learned to the water cycle.
Heating and Cooling	http://www.harcourtschool.com/activity/science_up_close/408/deploy/interface.html	What causes evaporation and condensation?
Mixtures & Solutions	http://www.harcourtschool.com/activity/mixture/mixture.html	Separate the mixtures with this interactive site.
Mechanical Energy	http://www.bbc.co.uk/schools/ks2bitesize/science/physical_processes/friction/play.shtml	Interact with the simulation to learn more about friction. Scroll down to the bottom of the page to read more about it and take a quiz.
Mechanical Energy	http://www.bbc.co.uk/schools/digger/7_9e_ntry/7.shtml	Friction, Force, and Motion interactive site. Remember to print the Friction page, Click and Do, for each student.

4 th grade Unit	Webpage	Description
Motion, Forces and Energy	http://www.bbc.co.uk/schools/ks2bitesize/science/materials/keeping_warm/play.shtml	Students will differentiate between conductors and insulators with this interactive site. When completed, scroll down to the bottom of the page to read and take a quiz.
Motion, Forces and Energy	http://www.fossweb.com/modules3-6/MagnetismandElectricity/index.html	Welcome to the Magnetism and Electricity Module! Investigate the magnets found in a typical kitchen. Try to pick up metal filings with the electromagnet.
Motion, Forces and Energy	http://www.harcourtschool.com/activity/electromagnets/	Virtual electromagnet investigation.
Motion, Forces and Energy	http://www.bbc.co.uk/schools/scienceclips/ages/6_7/electricity.shtml	Explore electrical circuits with this interactive site. Scroll to the bottom of the page to read more and take a quiz.
Motion, Forces and Energy	http://www.harcourtschool.com/activity/science_up_close/203/deploy/interface.html	This mini-tutorial explains three components of an electric circuit and what the function of each part does.
Motion, Forces and Energy	http://www.bbc.co.uk/schools/podsmision/electricity/annie02.shtml	There are tabs of characters along the edge. Students can click on Annie and Ollo to explore and learn more about electric circuits .
Properties of Soil	http://www.harcourtschool.com/activity/earth_mover/index.html	Identifying where the types of soil can be found interactive game.
Slow Changes to Earth's Surface	http://www.harcourtschool.com/activity/types_of_land_2/glacier.html	Short tour of glaciers and where they can be found.
Slow Changes to Earth's Surface	http://www.webrangers.us/activities/rockpark/?id=22	4.7B- An interactive site to identify the slow changes to the Earth's surface over time.
Renewable and Nonrenewable Resources	http://www.amnh.org/ology/index.php?channel=biodiversity#features/biobenefits?TB_iframe=true&height=550&width=770	4.7C Called, "Biodiversity," but it is about the things our Earth provides. Text passages, but read along and interactives included. Take a look at what the Earth provides!
Renewable and Nonrenewable Resources	http://www.harcourtschool.com/activity/resource_trail/index.html	Interactive game for students to play in the computer lab to reinforce what they know about resources.
Renewable and Nonrenewable Resources	http://pbskids.org/eeeworld/index.html?load=future	4.7C and 4.1B- How can we conserve and reuse our resources?
Renewable and Nonrenewable Resources	http://www.harcourtschool.com/activity/waste/index.html	Learn how to recycle, reuse, conserve, and how things are repurposed.
Weather	http://teacher.scholastic.com/activities/watch/analyze/	4.8A- Analyze and forecast the weather. Students use the weather maps in this interactive site.
Weather	http://www.powertolearn.com/games/weatherflash.html	4.8A Weather maps
Weather	http://edheads.org/activities/weather/frame_loader.htm	4.8A- Interactive weather map making and predicting using symbols from the map key.
Water Cycle	http://teacher.scholastic.com/activities/studentjams/water_cycle/index.htm	4.8B Water is constantly moving, but where does it go? Watch this three minute video, review vocabulary words, and take the quiz to get the full story on the water cycle.
Water Cycle	http://www.epa.gov/safewater/kids/flash/flash_watercycle.html	Learn about the water cycle. Note: Uses vapor instead of evaporation (vapor is a root word of evaporation).
Water Cycle	http://www.harcourtschool.com/activity/science_up_close/308/deploy/interface.html	Follow the arrows in the water cycle that describe the stages.
Shadows	http://www.harcourtschool.com/activity/science_up_close/317/deploy/interface.html	Interact by making shadows as you move the Sun across the sky during various times of the day.
Tides	http://gtm-media.discoveryeducation.com/videos/dsc/externalApplications/simulations-es/Explorations/Content/Resources/ES_5_3_2_Tides/flash/ES_5_3_2_Tides.html	4.8C Exploration simulation about tides
Tides	http://player.discoveryeducation.com/index.cfm?guidAssetId=0CC0C3FA-9904-4D55-B330-D8B0D805149E	4.8C Video Clip on Tides
Moon Phases	http://www.bigkidscience.com/MoonPhases/MoonPhases.html	Interact with the moon phases . Start on level one and begin your tutorial to understanding the placement of the moon and how we see it.

4 th grade Unit	Webpage	Description
Patterns of Change- Moon Phases	http://sunshine.chpc.utah.edu/labs/moon/!unar_phases_main.html#part2	4.8C Learn about the moon phases while clicking over the moon. Follow Activities 1, 3, and 2. Interactive, but requires reading
Patterns of Change- Moon Phases	http://gtm-media.discoveryeducation.com/videos/dsc/externalApplications/simulations-es/Explorations/Content/Resources/ES_5_3_1_Moon_Phases/flash/ES_5_3_1_Moon_Phases.html	4.8C The Moon seems to change shape each night. These changes are called phases. Have you ever wondered what causes these Moon phases? Let's find out about the different Moon phases.
Patterns of Change- Moon Phases	http://www.neok12.com/diagram/Moon-01.htm	Moon Phases: Evaluate, Students print out how they labeled the moon phases.
Patterns of Change- Seasons, Moon	http://gtm-media.discoveryeducation.com/videos/dsc/externalApplications/fundamentals/EarthSunMoon/index.html	When studying the seasons explore, Earth and Sun exploration. When studying the moon, use the Moon Phases portion.
Patterns of Change- Seasons	http://www.neok12.com/diagram/Seasons-01.htm	Seasons: Label the parts for the reasons for the seasons.

3rd grade Unit	Webpage	Description
Mass	http://www.harcourtschool.com/activity/science_up_close/301/deploy/interface.html	Learn about mass in this animated clip and mass an apple.
Magnetism	http://www.harcourtschool.com/activity/science_up_close/504/deploy/interface.html	Magnetism and compasses. Explore how magnets and compasses work.
Magnetism	http://www.bbc.co.uk/schools/ks2bitesize/science/living_things/help_plants_grow/play.shtml	Interactive site to observe and explore the force of magnetism acting on objects. Scroll down to the bottom of the page to read about magnets and take a quiz.
Temperature	http://www.fossweb.com/modulesK-2/AirandWeather/activities/whatstheweather.html	Practice reading a thermometer while playing an interactive game.
States of Matter	http://www.harcourtschool.com/activity/states_of_matter/index.html	What does each phase look like? Learn about the states of matter through this animation.
States of Matter	http://teacher.scholastic.com/activities/studyjams/matter_states/	3.5B and 3.5C--What is matter? It's solids, liquids, and gases and it can change states through heating or cooling. Want to know more? Watch this three minute video — and try singing karaoke — take a quiz-and learn all you need to know.
States of Matter	http://www.bbc.co.uk/schools/scienceclips/ages/8_9/habitats.shtml	Explore what happens to liquids when heat is added.
States of Matter	http://www.nyu.edu/pages/mathmol/textbook/slg.html	Water can exist in three states: solid, liquid, and gas. Find out why with this grade level appropriate reading.
States of Matter	http://www.fossweb.com/modules3-6/Water/activities/evaporation.html	Water evaporation interactive site.
Floating and Sinking	http://www.bbc.co.uk/schools/digger/5_7_entry/8.shtml	Floating and Sinking: Interact with Digger and the Gang as they get stuck along the way.
Unit 1: Force and Mechanical Energy	http://pbskids.org/sid/videoplayer.html	3 short clips about pulleys: Moving' on up the tree; Pulley Investigation; and Testing the pulley with Sid's tree house
Force and Mechanical Energy	http://www.crickweb.co.uk/ks2science.html	Students interact with the simulation to test the forces of springs and magnets. Focus on magnets as a force.
Force and Mechanical Energy	http://www.harcourtschool.com/activity/playgrnd/playgrnd.html	Let's find work on the playground as we learn about force and simple machines.
Force and Mechanical Energy	http://www.amnh.org/ology/features/gravity/?TB_iframe=true&height=500&width=600	3.6C- Read about gravity. Next, click on the two pictures at the bottom to explore what gravity does, and what would happen if it did not exist.
Sound	http://www.bbc.co.uk/schools/ks2bitesize/science/physical_processes/changing_sounds/play.shtml	Interact with the pitch and volume of sound. Scroll down to the bottom of the page to read about magnets and take a quiz.
Earth's Surface Changes	http://www.harcourtschool.com/activity/dirt/	How does soil form? Use the Formation tab only. Use this interactive to discover more about soil.
Earth's Surface Changes	http://www.harcourtschool.com/activity/science_up_close/307/deploy/interface.html	How ice cracks rocks. Ice weathers rocks by freezing and melting to form smaller pieces.
Earth's Surface Changes	http://www.harcourtschool.com/activity/science_up_close/507/deploy/interface.html	Learn about volcanoes from this animation with real photography.
Earth's Surface Changes	http://www.harcourtschool.com/activity/science_up_close/418/deploy/interface.html	Find-out what makes and earthquake.
Earth's Surface Changes	http://www.harcourtschool.com/activity/typesofland/typesofland.html	Types of landforms

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Natural Resources	http://www.harcourtschool.com/activity/science_up_close/208/deploy/interface.html	People can avoid wasting. Click on the picture to find out why plants, sunlight, soil, and water are important to this house.
Natural Resources	http://www.nwf.org/rrgreenzone/GreenwayHouse.aspx	Explore the Greenhouse and help the family use the resources wisely!
Natural Resources	http://www.crickweb.co.uk/ks1science.html	Scroll down to "Material 2." Interactive site with labeling manmade and natural objects and how they are used.
Weather	http://teacher.scholastic.com/activities/watch/sim/game.htm	Change the weather interactive activity.
Space	http://www.neok12.com/diagram/Solar-System-01.htm	Students label the objects in the solar system and print out the results.
Environmental Changes	http://pbskids.org/eekoworld/index.html?load=environment	3.9A & B Interactive: Click on each ecosystem to learn the physical characteristics of that environment and how it supports life.
Environmental Changes	http://www.fossweb.com/modules3-6/Environments/activities/virtualaquarium.html	Welcome to the Environments Module! Learn which factors are important for the survival of living organisms and conduct experiments to determine what these factors are. Set up a virtual aquarium and try to create a good environment for three different fish.
Environmental Changes	http://www.harcourtschool.com/activity/science_up_close/413/deploy/interface.html	Explore the nonliving components in an environment that enable living things to survive.
Environmental Changes	http://www.bbc.co.uk/schools/scienceclips/ages/8_9/habitats.shtml	Interact with a pond ecosystem and its food chains. When the simulation is completed, scroll down the bottom to read more about it and take a quiz.
Structures and Functions	http://teacher.scholastic.com/activities/explorations/bug/backyard.htm	3.10A- You can learn a lot by observing the world around you. Use a notebook as your field journal. Sketch the insects you see and take notes on their features including shape, coloring, and behavior.
Structures and Functions	http://teacher.scholastic.com/activities/explorations/bats/index.htm	Watch the introduction video. Then, go on an interactive quest to a nighttime field expedition to study bats. Your challenge: Observe how bats have become adapted over time.
Inherited and Learned Traits	http://www.crickweb.co.uk/ks2science.html	Scroll down to "Habitats." Students sort animals based on their inherited traits.
Inherited and Learned Traits	http://www.harcourtschool.com/activity/camouflage/camouflage.html	Interact to discover how animals' inherited body color helps them to survive in their environment.
Life Cycles	http://www.harcourtschool.com/activity/science_up_close/212/deploy/interface.html	Frog Life cycle

2 nd grade Unit	Webpage	Description
Properties of Matter	http://www.bbc.co.uk/schools/scienceclips/ages/6_7/grouping_materials.shtml	Students sort items by their characteristics into labeled categories.
Properties of Matter	http://www.crickweb.co.uk/ks2science.html	Scroll down to Material Characteristics. Explore the properties of various materials through this simulation.
Changing and Using Matter	http://www.fossweb.com/modulesK-2/BalanceandMotion/activities/rollercoaster.html	Students combine materials to build a rollercoaster.
Motion	http://www.bbc.co.uk/schools/scienceclips/ages/6_7/forces_movement.shtml	Students explore the changes in position over time such as a car rolling down a ramp.
Motion	http://pbskids.org/sid/videoplayer.html	Select: "The incline plane (about sliding)" and "Slide Investigation"
Effect of Heat	http://www.fossweb.com/modulesK-2/SolidsandLiquids/activities/changeit.html	Students explore what happens to solids and liquids when heated or cooled.
Effect of Light	http://www.bbc.co.uk/schools/ks2bitesize/science/physical_processes/light_shadows/play.shtml	Interact with the effects on an object by increasing and decreasing the amount of light energy. When complete, students can read for more information and take a quiz at the bottom of the page.
Effect of Light	http://pbskids.org/sid/shadowshow.html	2.6A Light and Shadows interactive learning game.
Sound	http://www.bbc.co.uk/schools/scienceclips/ages/5_6/sound_hearing.shtml	Students explore the effects on an object by increasing or decreasing the amounts of sound energy.
Weather	http://pbskids.org/sid/videoplayer.html	Select the clips: What is wind made of? And Predict the weather
Weather	http://teacher.scholastic.com/activities/wwatch/gather_data/	Collecting data about the weather and clouds. Includes data sheet for students to use after making weather instruments investigations.
Weather	http://pbskids.org/sid/weatherwheel.html	What to wear? Interactive weather game where 2 can play or a player can compete against the computer.
Weather	http://bblocks.samhsa.gov/Children/Games/flash/weatherrace.aspx	What to wear? Interactive weather game where 2 can play or a player can compete against the computer.
Water Cycle	http://pbskids.org/sid/videoplayer.html	Select the clips: I'm going to be a rain cloud; Where does rain come from;
Water Cycle	http://www.crickweb.co.uk/ks1science.html	Scroll down to "Water Cycle." Students will interact with the water cycle by labeling and watching the animation.
Water Cycle	http://www.harcourtschool.com/activity/science_up_close/106/deploy/interface.html	Water cycle clip
Water Cycle	http://www.harcourtschool.com/activity/science_up_close/209/deploy/interface.html	Click on each arrow of the water cycle to learn about each phase.
Rocks	http://www.bbc.co.uk/schools/ks2bitesize/science/materials/rocks_soils/play.shtml	Students interact with the simulation to find out the characteristics of rocks.
Resources	http://www.fossweb.com/modulesK-2/WoodandPaper/activities/whereiswood.html	Explore which manmade objects are made from natural wood.
Resources	http://pbskids.org/eekoworld/index.html?load=eekohouse	Move around the Eco-house to conserve and recycle interactive.
Basic Needs of Animals	http://www.harcourtschool.com/activity/science_up_close/417/deploy/interface.html	Animal migration interaction.

2 nd grade Unit	Webpage	Description
Basic Needs of Animals	http://www.amnh.org/ology/index.php?channel=zoology#features/movingmammals?TB_iframe=true&height=450&width=790	Watch the way different animals move. Click on the post-its to get more details.
Basic Needs of Animals	http://www.harcourtschool.com/activity/science_up_close/108/deploy/interface.html	Explore how the physical characteristics of certain animals help them to survive.
Basic Needs of Plants	http://www.bbc.co.uk/schools/ks2bitesize/science/living_things/help_plants_grow/play.shtml	The students will manipulate the factors in the environment that help the plant to grow.
Basic Needs of Plants	http://www.harcourtschool.com/activity/science_up_close/213/deploy/interface.html	Learn about the structure and function of plant parts.
Basic Needs of Plants	http://urbanext.illinois.edu/gpe/case1/c1facts2a.html	Learn about the structure and function of plant parts.
Interdependence of Organisms	http://www.crickweb.co.uk/ks2science.html	Scroll down to "Food Chains." Students interact with three different food chains after introduction page.

1 st grade Unit	Webpage	Description
Weather	http://www.learningbox.com/air/index.htm	Explore in 5E: An open-ended activity to help children visualize the movement of air.
Seasons	http://www.harcourtschool.com/activity/science_up_close/113/deploy/interface.html	Explain in 5E: Characteristics of seasons clip
Matter has Physical Properties	http://pbskids.org/sid/collectionjar.html	Sort items into categories based on their physical properties. **Be sure to have real items to sort along with the game. Click on "Tell Me More" for details.
Rocks, Water, and Soil are Useful	http://www.fossweb.com/modulesK-2/PebblesSandandSilt/activities/findearthmaterials.html	Students gather evidence of how rocks and soil make useful products.
Characteristics of Animals	http://www.harcourtschool.com/activity/science_up_close/110/deploy/interface.html	See how the external characteristics of an animal are related to where it lives.
Characteristics of Animals	http://www.crickweb.co.uk/ks1science.html	Scroll down to "Adult animals and babies." A three part activity to help students to understand the differences between young and adult animals. Look at the information wheel, sort, and match the animals.
Characteristics of Animals	http://www.fossweb.com/modulesK-2/AnimalsTwoByTwo/activities/findtheparent.html	Match the offspring to their parents in this interactive site.
Interdependence of Animals within their Environment	http://www.harcourtschool.com/activity/animalcom/animalcom.html	Discover how animals live in communities much as humans do.
Interdependence of Animals within their Environment	http://www.fossweb.com/modulesK-2/Trees/activities/wholiveshere.html	Who lives in the tree? Interactive game for students to learn about which animals depend on which trees.
Interdependence of Animals within their Environment and the Food Chain	http://www.bbc.co.uk/schools/scienceclips/ages/6_7/plants_animals_env.shtml	This interactive site places living organisms within their environment. Students must also have knowledge of life cycles.
Characteristics and Parts	http://www.crickweb.co.uk/ks1science.html	Scroll down to "Plant Parts." Students will label the parts of plants.
Characteristics and Parts	http://www.harcourtschool.com/activity/science_up_close/109/deploy/interface.html	Learn about different plants.
Force and Motion	http://www.bbc.co.uk/schools/scienceclips/ages/5_6/pushes_pulls.shtml	Students interact with pushes and pulls.

Kindergarten	Webpage	Description
Physical Properties	http://www.harcourtschool.com/activity/sense/sense.htm	Explore in 5E: Play interactive game to learn about the five senses.
Physical Properties	http://pbskids.org/sid/isense.html	Explore in 5E: Practice using your 5 senses in this interactive game.
Light	http://pbskids.org/sid/videoplayer.html?pid=sv_2Pbl7nw85X11_owfnkH5tO_7j6ZLu	Exploring light sources
Light	http://www.bbc.co.uk/schools/scienceclips/ages/5_6/light_dark.shtml	<i>Light and Dark</i> is a simulation for students to explore sources of light.
Sound	http://www.crickweb.co.uk/ks1science.html	Scroll down to "Sound and Hearing." Click on, <i>Identifying Sounds</i> for students to use their sense of hearing to identify sounds and match sounds.
Rocks	http://www.harcourtschool.com/activity/science_up_close/201/deploy/interface.html	Very short clip describing a rough texture of a rock.
Animals are Living Things that have Basic Needs	http://www.bbc.co.uk/schools/scienceclips/ages/5_6/ourselves.shtml	Students explore Ourselves to discover what things are living and what things are not through this interactive site.
Animals have Physical Characteristics	http://www.crickweb.co.uk/ks1science.html	Scroll down to "Grouping Animals" A three part sorting activity based around animals. Sort animals and plants; animals with or without legs; and how animals move.
Animals have Physical Characteristics	http://www.crickweb.co.uk/ks2science.html	Scroll down to "Animal Variation." Have students interact with Activity 1 and Activity 2. This is more challenging.
Animals have Physical Characteristics	http://www.crickweb.co.uk/ks2science.html	Scroll down to "Mini-beast Classification." Students will sort animals based on their physical characteristics.
Animals have Physical Characteristics	http://www.sheppardsoftware.com/preschool/animals.htm	Learn about animals with this interactive site. It has many explorations for students.
Animals have Physical Characteristics	http://www.fossweb.com/modulesK-2/Insects/activities/insecthunt.html	Students explore the parts of insects within a pond and on land.
Plants Have Physical Characteristics	http://www.hhmi.org/coolscience/forkids/vegquiz/plantparts.html	Meet the plant parts. We eat them all! Interactive matching game.
Plants have a life cycle	http://www.fossweb.com/modulesK-2/NewPlants/activities/watchitgrow.html	Watch it grow! Students watch a plant go through its life cycle.
Plants have a life cycle	http://www.bbc.co.uk/schools/scienceclips/ages/5_6/growing_plants.shtml	What helps plants to grow? Students will simulate the life cycle by giving plants what they need to grow.
Ecosystems for kindergarten: Freshwater and Lakes	http://www.harcourtschool.com/activity/science_up_close/313/deploy/interface.html	In kinder, students will explore fresh water ecosystems. Explore a pond ecosystem with this short animation.
Conserve and Recycle in the Community	http://funschool.kaboose.com/globe-rider/earthday/games/game_michael_recycle.html	Help Michael pick-up the litter in the park.
Conserve and Recycle in the Community	http://www.starfall.com/n/holiday/earthday/load.htm?f&n=main	Clean-up the Earth. Sort litter into paper, plastic, and can bins.