**ONLINE RESOURCES**

**PHONE APP**:

* **EasyBib**<https://itunes.apple.com/us/app/easybib-automatic-bibliography/id436768184?mt=8>Best kept secret – great way to scan in resources you find, create a bibliography list and email the citations to you.

**WEBSITES**:

**QUESTION:** Is there a difference between food loss and food waste?

* **eSchoolToday**
<http://www.eschooltoday.com>

Find the answer on the “Social Issues: Food Waste and Food Loss” page
<http://eschooltoday.com/global-food-waste-and-food-loss/what-is-food-waste.html>

Best kept secrets – Facts like this: “*Getting food from the farm to our fork eats up 10 percent of the total U.S. energy budget, uses 50 percent of U.S. land, and swallows 80 percent of all freshwater consumed in the United States. Yet, 40 percent of food in the United States today goes uneaten*.” Citations are included for additional information. (Example - scroll down to FACTS AND FIGURES, then click)
<http://eschooltoday.com/global-food-waste-and-food-loss/facts-on-food-waste-and-food-loss.html>

**QUESTION:** This member of the grass family, known as Zea mays everta, is what popular snack?

* **Popcorn.org**
<http://www.popcorn.org/>

Find the answer on the “Corny Facts” page (From main page - click FACTS & FUN, then find topic in box on left)
<http://www.popcorn.org/Facts-Fun/Corny-Facts>

Best kept secrets – An excellent explanation of the different kinds of corn
<http://www.popcorn.org/Different-Types-of-Corn>

“Popcorn in slow motion” video
<http://www.popcorn.org/Facts-Fun/Popcorn-Videos>

Science Fair Project Ideas (From main page - click LEARN, then find KIDS, SCIENCE FAIR PROJECTS in drop down box, click, scroll to bottom of page for list of projects by grade)
<http://www.popcorn.org/Learn/For-Kids/Science-Fair-Projects>

**QUESTION:** How is a Fibonacci Sequence related to a sunflower?

* **NeoK12**
<http://www.neok12.com>

Find the answer in the “Can Sunflowers Do Math?” video
<http://www.neok12.com/video/Plants/zX480152045a4a5f6c055655.htm>

Best kept secrets – Helpful time lapse videos of plants growing, like these bean sprouts (From main page – find LIFE SCIENCE, scroll down to PLANTS and click, scroll down to “Time-lapse of Plants Growing” and click)
<http://www.neok12.com/video/Plants/zX6515707a0f466267725159.htm>

Great introduction to different kinds of pollinators that will spark lots of discussion (From main page – find LIFE SCIENCE, scroll down to POLLINATION and click, scroll down to “The Beauty Of Pollination” and click)
<http://www.neok12.com/video/Pollination/zX4a705d4406575c55575c06.htm>

**QUESTION:** Electrical storms on Earth form lightening strikes and produce what vital nutrient for life?

* **PBS Learning Media**
<http://www.pbslearningmedia.org>

Find the answer in the NOVA: "Earth from Space | Lightening Produces Nitrates” video
<http://www.pbslearningmedia.org/resource/nves.sci.earth.nitrate/lightning-produces-nitrates>

Teaching tips and strategies for using resources like this. (Click SUPPORT MATERIALS at bottom of page for additional teaching tools)
<https://d43fweuh3sg51.cloudfront.net/media/media_files/nves_doc_strategies.pdf>

Best kept secrets – You can use this site for information only, or take advantage of all the free capacity and options it offers. (Click ABOUT at top of page for introductory video). It even offers the site in “TEACHER VIEW” or “STUDENT VIEW”, see link at bottom of main page.

A useful search feature to help you find what you need. Let’s use the example of a “2nd grade science lesson plan” to find a lesson about plants:
Put the parameters of your search in on the main page, click and scroll down to find the “Exploring Plants” lesson -
<http://www.pbslearningmedia.org/resource/lsps07.sci.life.oate.lpexploreplant/exploring-plants>
This is one of the excellent “Sock Seeds” video lessons included in this lesson -
<http://www.pbslearningmedia.org/resource/tdc02.sci.life.stru.sockseeds/sock-seeds>
* **Dig it! The Secrets of Soil**
<http://forces.si.edu/soils>
Best kept secret - Interactive postcards from each state with detailed soil information. (Example - click DIG IT, scroll down to STATE SOIL INTERACTIVE and click)
<http://forces.si.edu/soils/interactive/statesoils/index.html>
* **Soil 4 Kids: Dig Deeper**
<http://www.soils4kids.org/home>
Best kept secret – Career profiles of soil professionals (click CAREER EXPLORATION).
<http://www.soils4teachers.org/career-tools/career-profiles>
Engaging way to teach about parts of a plant (click FUN WITH SOIL, scroll down to THE GREAT PLANT ESCAPE).
<http://extension.illinois.edu/gpe/gpe.html>
* **The U.S. Geological Survey’s Water Science School**
<http://water.usgs.gov/edu>
Best kept secret – This is an amazing site to learn about water for all ages! It has an interactive water cycle diagram, with three levels of difficulty for kids (click WATER CYCLE KIDS, scroll down and click on “interactive diagram”).
<http://water.usgs.gov/edu/watercycle-kids-adv.html>
Water cycle diagram for adults (click WATER CYCLE ADULTS)
<http://water.usgs.gov/edu/watercycle.html>
* **Kids.gov**[http://www.kids.gov](http://www.kids.gov/)
Best kept secret – this should be everyone’s “go to” website for up to date information directly produced by reliable government programs on almost any topic you can think of.
You can learn about farmer’s markets (click KIDS, EXERCISE AND EATING HEALTHY, EATING HEALTHY, FARMERS MARKETS)
<http://www.nutrition.gov/farmers-markets>
You can get to know your farmers and your food (click KIDS: EXERCISE AND EATING HEALTHY: EATING HEALTHY: FARMERS MARKETS, then scroll over and click on KNOW YOUR FARMER KNOW YOUR FOOD)
<http://www.usda.gov/wps/portal/usda/usdahome?contentidonly=true&contentid=KYF_Compass_Healthy_Food_Access.html>
* **Northarvest Bean Growers Association**
<http://www.northarvestbean.org>
Best kept secret – an excellent resource for information about beans. They have a new comprehensive video about bean farms explaining how beans are grown in the USA and allowing you to meet some of the farmers. (click CONSUMER INFO: LEARN ABOUT NORTHARVEST BEAN PRODUCTION, scroll down to video)

They also have amazing resources for the public such as a new website called “The Bean Institute” (<http://beaninstitute.com>) , “Beans For Health” with a great tool explaining bean varieties, and “The World Bean Kitchen” with recipes that you could use for an international event involving food (click CONSUMER INFO: CONSUMER INFORMATON PROGRAM, scroll down to each link and click).
* **The Potato Board**<http://www.potatogoodness.com>
Best kept secret – great printable activity sheets and resources about potatoes (click MY POTATOES, scroll down to HOME COOKS: KIDS CORNER and click)
<http://www.potatogoodness.com/my-potatoes/home-cooks/kids-corner>

Eye catching nutrition-education poster and lesson on how to read a nutrition label (click MY POTATOES, scroll down to NUTRITION PROFESSIONALS: RESOURCE LIBRARY and click, scroll down to CLASSROOM RESOURCES and click on one of the options)
<http://www.potatogoodness.com/wp-content/uploads/2012/12/DigThis.pdf>
* **U.S. Highbush Blueberry Council** (available in English and Spanish)
<http://www.blueberrycouncil.org>
Best kept secret – awesome video of the narrator actually riding in the blueberry picker! (click GROWING BLUEBERRIES, scroll across to HOW BLUEBERRIES GROW and click, scroll down VIDEO)
<http://www.blueberrycouncil.org/growing-blueberries/how-blueberries-grow/>
* **Cape Cod Cranberry Growers' Association**
<http://www.cranberries.org/>
Best kept secret - “Exploring Cranberries” cranberry curriculum for grades 3 – 5. (Click on CRANBERRIES, then on FOR TEACHERS).
<http://www.cranberries.org/cranberries/teachers.html>
Ice Sanding information and slide show (click on CRANBERRIES:GROWING CRANBERRIES:ICE SANDING, then on scroll down to VIDEO)
 <http://www.cranberries.org/cranberries/grow_icesanding.html>
* **Washington Youth Garden**
<http://www.washingtonyouthgarden.org/>
Best kept secret –Free downloadable popcorn curriculum (click RESOURCES: CURRICULUM, scroll down to POPCORN LESSSON PLANS & HANDOUTS).
Plant Yoga – great activity for all ages ((click RESOURCES:CURRICULUM, scroll down to PLANT YOGA, click on graphic to print handout)
<http://www.washingtonyouthgarden.org/curriculum/>
* **Garden Mosaics**
<http://communitygardennews.org/gardenmosaics/index.htm>
Best kept secret – It has an extensive list of science based online resources for you to use. (Click on ABOUT US, then click on LINKS AND RESOURCES)

Also look at their **Science pages**, available in both English and Spanish languages:
<http://communitygardennews.org/gardenmosaics/pgs/science/english/mainscience.htm>
Best kept secret – Engaging online illustrations of each fact and topic, which includes a printable version of the online information & a second page with additional activities. (Example - click SCIENCE PAGES, select your language, select your topic [EARTHWORMS], click print version with activities, and then click teaching tips for more information)
* **Dawn Publishing**<http://www.dawnpub.com>
Best kept secret –Free downloadable activities and amazing sounds to add another level of learning to their books (click ACTIVITIES, scroll down to NOISY BUG SING-ALONG)
<https://dawnpub.com/activity-old/bug/>
* **National Geographic Kids**
[http://kids.nationalgeographic.com/](http://kids.nationalgeographic.com/animals/hubs/insects/)
Best kept secret – Fascinating information about all types of insects and a great butterfly video. (Example - scroll down INSECTS, click on “Butterflies- Ep. 146”)
<http://kids.nationalgeographic.com/animals/hubs/insects/>
* **Monarch Butterfly Life Cycle**
<https://youtu.be/Ry4hqn0WD60>
Narrated life cycle of a butterfly told from the butterfly’s point of view.
* **ARKive** - <http://www.arkive.org>
Best kept secrets – Presentations you can use to teach! (Example - click EDUCATE, click 7-11 YEAR OLDS, scroll down to BUTTERFLIES AND BLOOMS, click CLASSROOM PRESENTATION)
<http://www.arkive.org/education/teaching-resources-7-11>

A video of a carnivorous plant eating an insect (Example - click SPECIES, click SPECIES GROUP, click PLANTS AND ALGAE, scroll down to VENUS FLYTRAP, click on ALL 1 VIDEO, click on PLAY)
<http://www.arkive.org/venus-flytrap/dionaea-muscipula/videos.html>
* ***eBird***<http://ebird.org/content/ebird> Best kept secret – intuitive site for citizen scientists that is simple and fun to use. You create an account, mark your favorite bird watching spot on a map and input the information about the birds you’ve observed. Cornell tracks this data in real time for use in bird research (click ABOUT then set up an account get started)
<http://ebird.org/content/ebird/about>
* **Cornell Lab of Ornithology:**
<http://www.birds.cornell.edu/>
This site provides extensive bird resources and information
Best kept secret – Citizen science to help count birds in your area (scroll down and click NESTWATCH, scroll down to step-by-step instructions on how to participate)
<http://nestwatch.org/>
* **Smithsonian National Zoological Park
Conservation Central**
<http://nationalzoo.si.edu/Education/conservationCentral/default.cfm>
Best kept secret – habitat education curriculum and more (Example - click FINDING COMMON GROUND CURRICULUM, scroll down to MODULE 1 ~ IN MY OWN BACKYARD)
<http://nationalzoo.si.edu/Education/conservationCentral/pdfs/Module%201.pdf>
* **Energy Kids: U.S. Energy Information Administration**
<http://www.eia.gov/kids/index.cfm>
Best kept secret: Great energy resources for teachers (scroll down and click FOR TEACHERS in right column)
<http://www.eia.gov/kids/energy.cfm?page=6>

Energy calculators (scroll down and click ENERGY CALCULATORS in right column)
<http://www.eia.gov/kids/energy.cfm?page=about_energy_conversion_calculator-basics>

* **National Renewable Energy Laboratory** (NREL)
<http://www.nrel.gov>
Best kept secret – this informative site for older kids has an excellent video explaining the basics of how wind turbines produce energy (Scroll to bottom of homepage, find RESOURCES, click on LEARN ABOUT RENEWABLE ENERGY, then click WIND on box on left)
<http://www.nrel.gov/learning/re_wind.html>.
* **Aliant Energy Kids**<http://www.alliantenergykids.com/>
Best kept secret - taking your students on an “Energy 101” virtual field trip (click TEACHERS AND PARENTS: VIRTUAL FIELD TRIPS, then click ENERGY 101 to get the video)
<https://www.youtube.com/watch?v=nmHm4Sbb2Jc>
* Maryland Agricultural Education Foundation

<http://www.maefonline.com>
Best kept secrets – “The Buzz” newsletter spotlights educational opportunities for students & educators, conferences and grants (scroll down and join the mailing list).
Annual AG Literacy Program 2016 with downloadable lessons (scroll down and click AG LITERACY 2016 LEARN MORE) <http://www.maefonline.com/programs_ag_literacy_maryland_agricultural_education.html>

**Session Evaluation**

**Finish these sentences:**

The usable new ideas or resources I discovered today were:

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I would also like to have heard about:

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The setting I work in and the age of the students I work with are:

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Comments:

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**EXTRA** - Could you help me find the following specific resources?

* Print resource
* Online

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