


Program	Pre-Visit Warm-Up for Teachers	Post-Visit Review for Teachers	Family/ Caregiver At-Home Review
Field Trip Program: Everybody Poops	Explore seeds with your class in this interactive lab:  Mathematics and Science in na... <a href="https://drive.google.com/file/d/1kSaLKHVa9NTLP7rvAu9wOL118I28Btf-/view?usp=sharing">https://drive.google.com/file/d/1kSaLKHVa9NTLP7rvAu9wOL118I28Btf-/view?usp=sharing</a>	Go on a seed-walk with your class! Pull large socks over or tie them around student shoes as they wander outdoors. See what natural seeds or debris they pick up. Ask questions like: - What seeds do you think you're finding? - How are you helping these seeds find a place to be planted? - Do you think animals that have seeds attached to them know the seeds are on them? - How far do you think these seeds might travel from their home?	Important vocabulary to review: <ul style="list-style-type: none"> <li>● Scat</li> <li>● Herbivore, Frugivore, Granivore</li> <li>● Seed Dispersal</li> </ul> At-home activity: In this totally gross activity, have children wash their hands, then give each child a Tootsie Roll. Let children manipulate their Tootsie Roll to represent the scat of an animal they have seen or learned about lately. Have others try to guess which animal is represented by the fake scat, or what they ate.
Field Trip Program: Movin' & Groovin'	Provide a simple body diagram to your students. Have them label or color code different key body parts or body segments.  Practice out a movement as a class in preparation for your Zoo excursion: <a href="https://tinkergarten.com/activities/mindful-mondays-star">https://tinkergarten.com/activities/mindful-mondays-star</a>	Return to the Pre-Visit activity. Add other animal body diagrams and see if your students can color in the same sort of features that are similar in the other animals. Do they correctly match the placement and colors for arms, hands, fingers, toes, legs, tails, etc?  Host one last dance party: <a href="https://tinkergarten.com/activities/animal-dance-party">https://tinkergarten.com/activities/animal-dance-party</a>	Important vocabulary to review: <ul style="list-style-type: none"> <li>● Locomotion</li> <li>● Slither, Crawl, Climb</li> <li>● Character, Setting</li> </ul> At-home activity: Try a movement storytime with your little one on your own! Examples: <a href="#">The Cat with the Crooked Tail</a> & <a href="#">The Grumpy Goat</a>
Field Trip Program: Super Duper Senses	Take a sound walk with your class: <a href="https://tinkergarten.com/activities/listening-walk">https://tinkergarten.com/activities/listening-walk</a>  As able, make a sound map to mark off what kinds of animals were heard, and where, in relation to the group or each student.	Return to your sound maps. Draw lines connecting who the animals would listen for, watch, or otherwise sense around them in the same environment.  Discuss together why sensing others would be helpful and how the animals would do it. (Think of predator/prey, family, and other relationships to connect the animals, and the adaptations the animals have to help)	Important vocabulary to review: <ul style="list-style-type: none"> <li>● Senses</li> <li>● Adaptations</li> <li>● Internal/ External</li> </ul> At-home activity: Use senses on your own at home with these sample activities. Discuss what benefits or challenges there are to sensing extra colors, textures, and sounds. Predict how people can adapt if they rely on one sense more than others, or were to lose a sense.

			<p>Go on a color hunt:  <a href="https://tinkergarten.com/activities/deseo-de-arcoiris-rainbow-wishes">https://tinkergarten.com/activities/deseo-de-arcoiris-rainbow-wishes</a></p> <p>Play with sounds:  <a href="https://tinkergarten.com/activities/make-music-like-wild-things/">https://tinkergarten.com/activities/make-music-like-wild-things/</a>; <a href="https://tinkergarten.com/activities/hidden-sounds/">/hide-sound</a></p> <p>Feel something different:  <a href="https://tinkergarten.com/activities/go-bare-foot-day">https://tinkergarten.com/activities/go-bare-foot-day</a></p> <p>Maximize your senses &amp; meet a tree:  <a href="https://tinkergarten.com/activities/befriend-a-tree">https://tinkergarten.com/activities/befriend-a-tree</a></p>
Field Trip Program: Recipe for Habitat	<p>Try the <i>Population Ecology</i> simulation “Crowding can be Seedy”  <a href="https://populationeducation.org/resources/crowding-can-be-seedy-video/">https://populationeducation.org/resources/crowding-can-be-seedy-video/</a></p> <p>Extend as desired with the full lesson plan. Discuss how space competition can be seen in a classroom garden or other public space.</p>	<p>Try the classic <i>Project Wild</i> simulation of “Oh Deer!”  <a href="https://idrange.org/wp-content/uploads/2020/07/Oh-Deer.pdf">https://idrange.org/wp-content/uploads/2020/07/Oh-Deer.pdf</a></p> <p>Discuss how the quantity, spacing, or timing of essential resources can impact populations differently.</p>	<p>Important vocabulary to review:</p> <ul style="list-style-type: none"> <li>● Essential resource</li> <li>● Food, water, shelter, space</li> <li>● Habitat, Ecosystem</li> </ul> <p>At-home activity:  Help make a mini diorama of an animal’s habitat of your child’s choice. Have them describe for family members what elements they included and how they would meet the needs of the animal.</p>
Field Trip Program: Zoooper Heroes	<p>Watch the following and determine what super powers a sloth might have:  <a href="https://tieseducation.org/resource/why-are-sloths-so-slow-kenny-coogan/">https://tieseducation.org/resource/why-are-sloths-so-slow-kenny-coogan/</a></p>	<p>Explore the story lesson, practice reading comprehension, and play a game to apply armadillo adaptations:  <a href="https://elizabethshreeve.com/wp-content/uploads/2024/09/TeacherGuide-THE-ODDBALL-BOOK-OF-ARMADILLO-Sv2.pdf">https://elizabethshreeve.com/wp-content/uploads/2024/09/TeacherGuide-THE-ODDBALL-BOOK-OF-ARMADILLO-Sv2.pdf</a></p> <p>Test knowledge: Students pick the best traits and behaviors to survive in this adaptation simulation:  <a href="https://games.legendsoflearning.com/game/WyJnYW1lcylsMzl3OV0=/3279?partner=legends-public">https://games.legendsoflearning.com/game/WyJnYW1lcylsMzl3OV0=/3279?partner=legends-public</a></p>	<p>Important vocabulary to review:</p> <ul style="list-style-type: none"> <li>● Adaptation</li> <li>● Behavioral / Physical</li> <li>● Internal/ External</li> <li>● Extinction</li> </ul> <p>At-home activity:  Grab some playdough or Model Magic clay and craft an animal Zoooper Hero with your child. Add adaptations they learned about. Have them explain their creation to those at home, or challenge them by describing a unique planet they must adapt to survive on. See what creature they make in response!</p>

<p>Field Trip Program: Food Web Feast</p>	<p>Introduce the concepts of predator and prey to your students! Ask them to explain what they are seeing and why, when they dissect their own owl pellets. Try the virtual lab here: <a href="https://kidwings.com/sherlock-bones">https://kidwings.com/sherlock-bones</a></p> <p>Ask your students,</p> <ul style="list-style-type: none"> <li>• What is an owl pellet? How is it different from scat?</li> <li>• What body parts did you find and what was missing? Why?</li> <li>• Why would scientists want to uncover bones in pellets?</li> </ul>	<p>Challenge your students in this tech lab to identify scavenger diets. Across 4 different biomes in Minnesota, scientists need your help to learn which animals are acting as scavengers, what species support the local food chain, and how animals depend on each other in the great circle of life!</p> <p><a href="https://www.zooniverse.org/projects/embeller/offal-wildlife-watching">https://www.zooniverse.org/projects/embeller/offal-wildlife-watching</a></p> <p>Follow up with each picture, asking your students to draw a food chain of those involved or predict the path of a seed around the animals in the wild.</p>	<p>Important vocabulary to review:</p> <ul style="list-style-type: none"> <li>• Herbivore</li> <li>• Omnivore</li> <li>• Carnivore</li> <li>• Food Chain</li> </ul> <p>At-home activity: Bring the hunger for learning to your family time! Try the included activity from: <a href="https://tinkergarten.com/activities/orangutan-picnic">https://tinkergarten.com/activities/orangutan-picnic</a></p> <p>Alternatively, allow some computer time to play “Biosphere Architect” with a student account at <i>Legends of Learning</i>: <a href="https://www.legendsoflearning.com/learning-objectives/cycles-of-matter-and-energy-transfer-in-ecosystems-science-games/">https://www.legendsoflearning.com/learning-objectives/cycles-of-matter-and-energy-transfer-in-ecosystems-science-games/</a></p>
<p>Field Trip Program: Expansion Expedition / Excellent Ecosystems</p>	<p>Host a class research project! Look up details about biomes, a species of concern, and what features they rely on in their ecosystem to help them survive.</p>	<p>Guide your class to invent their own enrichment items for animals at the Zoo, using coding! Find the full lesson from <i>Code.org</i> at <a href="https://resources.scratch.mit.edu/www/lessons/en/ScratchLearningResource_ScratchHOC2024Gitanjali_InventionLesson.pdf">https://resources.scratch.mit.edu/www/lessons/en/ScratchLearningResource_ScratchHOC2024Gitanjali_InventionLesson.pdf</a></p>	<p>Important vocabulary to review:</p> <ul style="list-style-type: none"> <li>• Enrichment</li> <li>• Design, Engineering</li> <li>• Habitat</li> <li>• Budget</li> </ul> <p>At-home activity: Help make a mini diorama of an animal’s habitat of your child’s choice. Have them describe for family members what elements they included and how they would meet the needs of the animal.</p>
<p>Field Trip Program: A Day in the Life</p>	<p>Zookeepers often take careful records of animals and their behaviors through a tool called an ethogram. Sample the process with conservationists in real-time at <i>Project Zooniverse</i>: <a href="https://www.zooniverse.org/projects/sassydumbledore/chimp-and-see/classifym">https://www.zooniverse.org/projects/sassydumbledore/chimp-and-see/classifym</a></p>	<p>Work through the “Wild Medicine” online lab from <i>The Smithsonian National Zoo</i>: <a href="https://nationalzoo.si.edu/education/school-programs/wild-medicine">https://nationalzoo.si.edu/education/school-programs/wild-medicine</a></p>	<p>Important vocabulary to review:</p> <ul style="list-style-type: none"> <li>• Training, Capturing, Bridge</li> <li>• Wellness/ Well-being</li> <li>• Enrichment, Husbandry</li> <li>• Ethogram, Behavior</li> <li>• Urology, Hematology, Biotechnology, Radiology</li> </ul> <p>At-home activity: Allow some computer time to help</p>

			<p>conservationists in real-time at <i>Project Zooniverse</i> through a project about monkey health &amp; blood cell types:  <a href="https://www.zooniverse.org/projects/mbarrierz/monkey-health-explorer">https://www.zooniverse.org/projects/mbarrierz/monkey-health-explorer</a></p>
<p>Field Trip Program:  Conservation  Conversation</p>	<p>Complete the activity from <i>Population Ecology</i>, “In Search of a Sustainable Life” to introduce and debate concepts related to sustainability and conservation in modern times  <a href="https://populationeducation.org/resource/in-search-of-sustainable-life-video/">https://populationeducation.org/resource/in-search-of-sustainable-life-video/</a></p>	<p>Assign the research project from <i>Population Ecology</i>, “In the News” so that students predict what a future might look like based on current environment-related trends.  <a href="https://populationeducation.org/resource/in-the-news-research-for-tomorrow/">https://populationeducation.org/resource/in-the-news-research-for-tomorrow/</a></p>	<p>Important vocabulary to review:</p> <ul style="list-style-type: none"> <li>● Conservation</li> <li>● Preservation</li> <li>● Restoration</li> <li>● Species Survival Plan</li> <li>● Endangered, Extinct, Threatened</li> </ul> <p>At-home activity:  Allow some computer time to help conservationists in real-time at <i>Project Zooniverse</i>:</p> <p>Help in tree restoration:  <a href="https://www.zooniverse.org/projects/physiocsiosh/tag-trees">https://www.zooniverse.org/projects/physiocsiosh/tag-trees</a></p> <p>Help in frog protection:  <a href="https://www.zooniverse.org/projects/ollibruuh/frog-find">https://www.zooniverse.org/projects/ollibruuh/frog-find</a></p>