



MINNESOTA ZOO

TEACHER FIELD GUIDE

2018 / 2019

Learn more at



mnzoo.org/schools

TABLE OF CONTENTS

FIELD TRIPS—PAGE 3–5

- Wings Financial World of Birds Show
- Tropical Reef Dive Show
- Hawaiian Monk Seal Training
- Mission Possible
- Guided Trail Tours
- Minnesota Natural Heritage Tour
- ZOOMS Engineering Lab
- IMAX Education Films
- Zoo Classes
- Special Event Days for Schools
- Overnights: Animals After Dark
- Self-Guided Field Trip Resources
- Classroom Resources

STEM AT THE ZOO—PAGE 6

- ZOOMS STEM Design Challenge presented by Flint Hills Resources
- ZOOMS Professional Development

ADDITIONAL OPPORTUNITIES FOR TEACHERS—PAGE 6

- Professional Development
- EdVentures
- Teacher Discounts and Previews
- MNZooEdu Times e-Newsletter
- MNZooEdu Facebook Page

BRING THE ZOO TO YOU—PAGE 7

- Zoomobile

FINANCIAL ASSISTANCE AVAILABLE!

We are committed to making your visit accessible, including financial assistance programs like our Zoo Explorers Scholarships and Zoo Bus Fund. These programs provide funds for admission, zoo classes and/or transportation for eligible students.

Apply and plan the perfect field trip at mnzoo.org/schools or email educate@mnzoo.org. Follow us on Facebook at MNZooEdu. See you soon at the Minnesota Zoo!

DEAR EDUCATOR,

Welcome to the Minnesota Zoo, the state's largest conservation education resource. Education programs at the Minnesota Zoo are essential to fulfilling our mission to connect people, animals and the natural world to save wildlife.

Our resources add new dimensions to classroom learning with fun, unique, and engaging experiences. We are committed to meeting your needs by providing active, inquiry-based programs designed to support K-12 Academic Standards and 21st century student learning skills.

Throughout this guide you'll find programs for all grade levels focused on a variety of key learning areas. Watch for these icons to create a Minnesota Zoo adventure tailored to your curriculum needs:



MINNESOTA
NATURAL
HERITAGE



STEM
EDUCATION



ANIMAL CARE
AND CONSERVATION



CONNECTING TO
NATURE



ANIMALS AND
ECOSYSTEMS





FIELD TRIPS

A day at the Minnesota Zoo offers discovery, learning and more whether you opt for a self-guided experience or select from our menu of programs. A year-round destination that offers both indoor and outdoor adventures, our exhibit areas and trails include:

- DISCOVERY BAY
- MEDTRONIC MINNESOTA TRAIL
- NORTHERN TRAIL
- RUSSIA'S GRIZZLY COAST
- TROPICS TRAIL
- THE SOUTH ENTRY—3M PENGUINS OF THE AFRICAN COAST AND SNOW MONKEYS
- WELLS FARGO FAMILY FARM (SEASONAL)
- HANIFL FAMILY WILD WOODS (SEASONAL)
- CONSERVATION CAROUSEL (SEASONAL)

Register at least two weeks in advance to receive 2018-19 school admission rates. These rates are available for school groups and homeschool guests Monday through Friday, September 4th through June 7th.

PARTICIPANTS

- Pre K-5th grade students
- 6th-12th grade students
- College students

PRICING

- \$6 each
- \$8 each
- \$8 each

- Adult Chaperones/Teachers
- Additional Adults
- Homeschool Adults
- Parking

- One free adult per 5 paid students
- \$12 each
- One free adult per family
- \$7 per car or \$10 per bus

For more information and to register, visit mnzoo.org/schools or email educate@mnzoo.org or call **952.431.9218**. Financial assistance available for qualifying schools. Follow us on Facebook at MNZooEdu.

ENHANCE YOUR FIELD TRIP



WINGS FINANCIAL WORLD OF BIRDS SHOW

October–April and Memorial Day–August

This 30-minute program features a variety of birds from around the world emphasizing their natural abilities, the diversity of species on our planet, and the importance of natural habitats.

Fees: Free with admission; suitable for all ages.



TROPICAL REEF DIVE SHOW

Daily

Our spectacular floor-to-ceiling underwater viewing allows you to watch aquarium staff dive with the sharks and tropical fish of the Coral Reef.

Fees: Free with admission; suitable for all ages.



HAWAIIAN MONK SEAL TRAINING

Daily

Connect with these critically endangered marine mammals and their trainers in their Discovery Bay habitat, the only place to see these amazing animals outside of Hawaii.

Fees: Free with admission; suitable for all ages.



MISSION POSSIBLE

Daily

For 40 years, the MN Zoo has connected people, animals and the natural world to save wildlife. During this live program, the Zoo's seals and animal ambassadors help share their unique conservation stories.

Fees: Free with admission; suitable for all ages.



GUIDED TRAIL TOURS

September 5, 2018 to June 7, 2019

Led by a Zoo naturalist, this one-hour tour will engage middle and high school students in an exploration of exhibit design, animal behavior and management, Zoo careers, and conservation. A look behind the scenes is included. Select from the Tropics Trail, Medtronic Minnesota Trail, Russia's Grizzly Coast, or Aquariums.

Fees: \$8 per person plus applicable admission; \$48 per group minimum. Financial assistance available for qualifying schools.



MINNESOTA NATURAL HERITAGE TOUR

September 5, 2018 to May 10th, 2019

Geared for upper elementary and middle school students, this 45-minute naturalist led tour of the Medtronic Minnesota Trail highlights native animals as well as the rich natural and cultural history of our great state. Topics support Minnesota's social studies and science standards.

Fees: \$4 per student plus applicable admission; \$48 per group minimum. Financial assistance available for qualifying schools.



ZOOMS ENGINEERING LAB

Sept–June

Immerse students in the world of engineering at the Zoo in this customized single or multi-day residency. Students will leave with a deeper understanding of how STEM is applied at the Minnesota Zoo.

Fees: \$25 per student per day; \$250 per day minimum plus applicable admission fees.



IMAX EDUCATION FILMS

Year Round

Explore space, the environment, and the many wonders beneath the ocean on Minnesota's largest screen. Affordable, flexible reservations for schools make IMAX movies a great addition to your field trip. Call **952.997.9714** or email kalbers@imax.com. Visit imax.com/minnesota for more information.

Fees: \$6–7 per person (documentary film).



IMAX LUNCH BREAK

Year Round

Enjoy a short IMAX documentary while you eat your lunch. More information available at mnzoo.org/schools.

Fees: \$5 per person (30 min. documentary film).

ZOO CLASSES

September 5, 2018 to May 10, 2019

Fun, interactive Zoo classes reinforce standards-based concepts being explored in your curriculum by bringing learning to life with live animal visits and hands-on activities led by Zoo naturalists. Detailed class descriptions and grade level recommendations are found at mnzoo.org/schools. Class offerings for 2018–2019 include:

KINDERGARTEN–2ND GRADE

45 minutes

- Penguin Palooza
- Once Upon A Tide Pool **NEW!**
- Life on the Farm (seasonal)

2ND–5TH GRADE

45 minutes

- Animal Classifieds
- Animal Heirs
- Recipe for a Rainforest
- Enrichment Inquiry
- Shark-y Science
- Penguineering
- Marine Metropolis
- Biomimicry 101
- Bare Necessities

6TH–8TH GRADE

60 minutes

- Enrichment Inquiry
- Shark-y Science
- Zoo Exhibit Design
- Bioengineering
- Vanishing Animals

9TH–12TH GRADE

60 minutes

- Enrichment Inquiry
- Zoo Careers **NEW!**
- Monk Seal Mystery **NEW!**
- Zoo Exhibit Design
- Bioengineering
- Vanishing Animals

Fees: \$4 per student plus applicable admission; \$48 per group minimum. Financial assistance available for qualifying schools.

SPECIAL EVENTS AND OVERNIGHTS



SPECIAL EVENT DAYS FOR SCHOOLS

Zoo exhibits serve as the backdrop for creative learning in multiple areas of study. Immerse your students in a specialized topic, whether it's applying math in the Zoo, exploring Zoo careers, or learning about animals in the world language of the day. Complete information and pricing at mnzoo.org/schools. Financial assistance available for qualifying schools.

EVENT	DATES	FEES (<i>includes admission</i>)	
		GRADES K-5	GRADES 6-12
Homeschool Day	Oct 4, 2018	\$9	\$11
Math Day (ELEM)	Nov 1, 2018	\$9	N/A
Math Days (MS)	Nov 6 and 7, 2018	\$9	\$11
French Language Day	Feb 5, 2019	\$9	\$11
German Language Day	Feb 6, 2019	\$9	\$11
Spanish Language Day (MS)	Feb 7, 2019	\$9	\$11
Spanish Language Days	Feb 12 and 13, 2019	\$9	\$11
Zoo Careers Day	Mar 13, 2019	N/A	\$11
American Sign Language Day	Apr 18, 2019	\$9	\$11

CLASSROOM RESOURCES

These in-depth curricula serve as resources to help you and your students get the most out of a field trip to the Zoo. Download activities from our Teacher Resources page at mnzoo.org/schools. Follow us on Facebook at MNZooEdu for new resources as they are developed.



STEM UNIT FOR GRADES 4-6

Bridge the gap between the classroom and the Zoo with this in depth STEM experience. You and your students will learn about the impacts of human engineering and technology and the consequences that animals now face in their natural habitat.



MINNESOTA UNIT FOR GRADES 6-8

A great accompaniment to any unit on Minnesota history, wildlife, environments, or biology. Engaging classroom activities prepare students to later explore the Zoo's Medtronic Minnesota Trail and learn about how Minnesota's natural and cultural history are intertwined.



MATH CURRICULUM FOR GRADES K-12

These uniquely designed problem sets are tailored to each grade level and feature animals and careers from the Minnesota Zoo. Use them in the classroom or bring them with you on your next trip to the Zoo.



OVERNIGHTS: ANIMALS AFTER DARK

Select Dates November through June

School overnights provide you and your students with an exciting evening of activities and behind-the-scenes tours. In addition to unique animal experiences, Animals After Dark programs include dinner, an evening snack, breakfast, and t-shirts for all participants. Choose from an Oceans overnight (maximum of 60 people; offered November-May) or a Forest overnight (maximum of 30 people; offered April-May). Learn more at mnzoo.org/schools.

Fees: \$49 per participant; \$100 deposit required at time of registration.

SELF-GUIDED FIELD TRIP RESOURCES

Keep your students focused and learning with age-appropriate scavenger hunts and activities. Download materials from our Teacher Resource page at mnzoo.org/schools.



GRIZZLY TREK

Self-guided activities for Russia's Grizzly Coast for grades K-3 and 4-8.



STEM TREK

Self-guided activities for the Tropics Trail for grades 4-6.



MINNESOTA TREK

Self-guided activities for the Medtronic Minnesota Trail for grades 6-8.



CLIMATE CHANGE OCEAN

TREK NEW!

Self-guided activities for Discovery Bay for grades 5-10.



ENVIRONMENTAL SCIENCE

TREK NEW!

Self-guided activities, Zoo-wide for grades 9-12.

The Zoo Math and Science (ZOOMS) Program reveals just what it takes to engineer a modern zoo. Looking through three different lenses: Engineering FOR Animals (exhibit design), Engineering FROM Animals (biomimicry), and Engineering BY Animals (animals as engineers), ZOOMS provides the opportunity to apply important science, technology, engineering, and math (STEM) concepts to real world situations using the Minnesota Zoo as a context for study.

ZOOMS STEM DESIGN CHALLENGE PRESENTED BY FLINT HILLS

From designing an animal enrichment to building a model of a renovated animal exhibit, the ZOOMS Design Challenge encourages students to use their science and math knowledge, creativity, problem-solving and research skills in order to propose the best solution to a real problem faced by Minnesota Zoo staff. Select teams will be invited to showcase their designs at the ZOOMS Design Challenge Exhibition on March 19 or 21, 2019.

Interested teachers should register for the FREE ZOOMS Design Challenge Teacher Workshop on September 25, 2018.

ZOOMS FIELD TRIPS AND OUTREACH PROGRAMS

Look for the  STEM icon throughout the Teacher Field Guide for programs that are part of ZOOMS!

ZOOMS PROFESSIONAL DEVELOPMENT OPPORTUNITIES

  **ZOOMS DESIGN CHALLENGE TEACHER WORKSHOP**
September 25, 2018

   **SUMMER 2019 ZOOMS INSTITUTE**
(Graduate credit available through Hamline University)
August 5–8, 2019

 **CUSTOMIZABLE STEM TOURS**
(one-day workshops, and more for your group)

More information available at mnzoo.org/stem.

ADDITIONAL OPPORTUNITIES FOR TEACHERS

For nearly 40 years, the Minnesota Zoo has been a valuable partner to teachers across the State and around the country. Visit mnzoo.org/schools to discover all the ways we can support and inspire the work you do!

PROFESSIONAL DEVELOPMENT—Join us to learn how to make your curriculum even more AMAZING with our STEM, nature play and citizen science workshops.

EDVENTURES—Travel to local and exotic destinations around the world with a Minnesota Zoo educator.

TEACHER DISCOUNTS—Educators always enjoy a 20% discount on educational materials at the Zoo's gift store; simply show your School ID to a cashier.

FREE EDUCATOR PREVIEW PASSES—Test drive your scheduled field trip with an advance visit to the Zoo. Contact our School Scheduler at educate@mnzoo.org or **952.431.8218** to arrange your visit.

MNZOOEDU TIMES ELECTRONIC NEWSLETTER—This bimonthly publication features program updates, event information, exhibit news and more. Sign up on our website.

MNZOOEDU FACEBOOK PAGE—“Like” us on Facebook to share ideas and resources about teaching, animals, conservation, and the Minnesota Zoo.

ACT FOR WILDLIFE

Just by coming to the Zoo you take action for wildlife as your Zoo admission or membership supports our conservation mission. Below is information on additional steps you and your students can take to help save animals in the wild—from making animal-friendly shopping choices to recycling an old cell phone.

- Fish Smart
- Responsible Pet Ownership
- Recycle for Rainforest
- Plant for Pollinators
- Shop Smart for Palm Oil

For more information on these campaigns and how you can get involved, visit mnzoo.org/act4wildlife.



BRING THE ZOO TO YOU



Geography is no barrier to participating in a Minnesota Zoo education program. Zoomobile ensures that, wherever your classroom may be, the Minnesota Zoo can be there, too!

MINNESOTA ZOOMOBILE

Our team of Zoo naturalists travel to schools throughout the state of Minnesota (and beyond!) bringing live animals, biological artifacts, storytelling and more. Zoomobile programs create a dynamic, personal and fun experience for students of all ages.

CLASSROOM PROGRAMS

45 minutes; up to 35 participants

During hands-on, interactive classroom programs, participants explore life science topics and engage animals up close.

Fees: \$150 each, minimum fee \$325. Additional mileage fees may apply.

NEW TOPICS FOR 2018:

PRE-K Animal Explorers

KINDERGARTEN Animal Investigation, Critter Classification

1ST GRADE Cycle of Life

K-2ND GRADE Animal Families

2ND-3RD GRADE . . . What's a Habitat?

3RD-5TH GRADE . . . Wild Survivor

4TH GRADE Animal Health

5TH GRADE Minnesota Ecosystems

6TH-12TH GRADE . . Wildlife Conservation
Skull Science

Animals and Engineering

LARGE GROUP

ASSEMBLY PROGRAMS

45 minutes; up to 150 participants

Assembly programs are a dynamic, educational and fun way to teach students about animals, ecology, and the environment. Presentations can be adapted to all age/grade levels.

Fees: \$325 first program, \$175 for additional programs (same day and location). Additional mileage fees may apply.

TOPICS INCLUDE:

ALL GRADES All Things Connected
Cool Animals of the North

2ND GRADE & UP . . . Predator/Prey

4TH GRADE & UP . . . So you Want to Be
a Zookeeper

To learn more, and submit a Program Request Form, visit mnzoo.org/zoomobile or call **952.431.9228**.

Visit MNZOO.ORG/ZOOMOBILE for more information and call **952.431.9228** to register.



MINNESOTA ZOO®

PARTNER WITH THE ZOO FOR THE SHOW US YOUR MUSSELS CHALLENGE

Minnesota High School students create original digital media campaigns informing the public about the impact of water quality on native mussels. The school groups that get the message out to the most people will receive FREE field trips to the Minnesota Zoo including bussing, admission, parking and interactive sessions with our mussel conservation staff.

For more information, visit MNZOO.ORG/DIGITALMUSSELS

TAKE THE CHALLENGE TODAY



TEACHER FIELD GUIDE



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