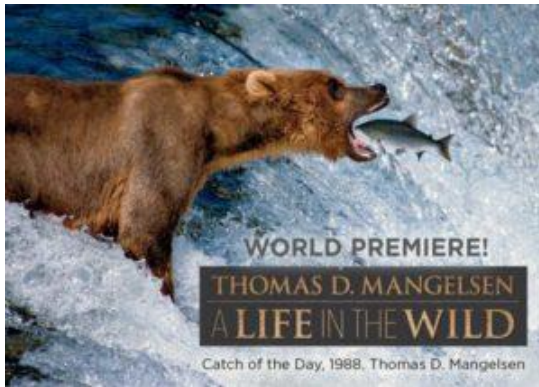




Thomas D. Mangelsen: A Life in the Wild

Curriculum Guide



Now-January 6, 2019

Legendary nature photographer Thomas D. Mangelsen has traveled throughout the natural world for over 40 years observing and photographing the Earth's last great wild places. From polar bears in the Arctic to vast herds of game on the plains of Africa, from the deep jungles of South America to the tigers of India, to images revealing the diversity of wildlife in the American West, Mangelsen has captured rare moments and vast panoramas from all seven continents. The Durham Museum is honored to host the world premiere of *A Life in the Wild*, an exhibition containing 40 of Mangelsen's most resonant images—images that take viewers on a journey into the haunts of iconic species whose struggles for survival are metaphorical fulcrums for reflection in the 21st century.

Table of Contents

Objectives and Standards	Page 2-3
Pre-Visit Activities	Page 4
Post-Visit Activities	Page 5
Recommended Websites and Books	Page 6-7
Opportunities with The Durham Museum	Page 8

Objectives and Standards

Special Note: The objectives and standards listed below are meant to be fairly general connections to various grade levels' Social Studies curriculum regarding animals, the earth, regions, etc. However, this exhibit would certainly be a great fit for any class studying animals or habitats in a science curriculum. Please feel free to reach out to our education team to find out more about how we could use the exhibit to meet your class's needs.

After attending The Durham Museum's *Thomas D. Mangelsen: A Life in the Wild* exhibition, students will:

Identify animals found in Thomas D. Mangelsen's 40 Legacy Collection Photographs.
Explain the importance of Thomas D. Mangelsen's conservation work, both in Nebraska and around the world.

Nebraska State Social Studies Standards supported in The Durham Museum's *Thomas D. Mangelsen: A Life in the Wild* exhibition

Kindergarten

0.3.2 Students will explore places and regions

0.3.5.b Give examples of how to care for the environment

First Grade

1.2.2.a Identify various natural resources (e.g., forests, soil, minerals, water, air, animals, oil, and natural gas)

1.3.2 Students will explore places and regions

1.3.5.b Match resources to their sources (e.g., food from farms, wood from trees, minerals from the ground, fish from the sea)

Second Grade

2.3.2 Students will identify places and regions

Third Grade

3.3.2 Students will compare the characteristics of places and regions

3.3.3.b Identify local ecosystems (e.g., forests, deserts, grasslands)

3.3.5.c Explain the importance of Earth's natural resources (e.g., minerals, air, water, land)

3.3.5.b Explain how human activities change Earth (e.g., agriculture, transportation, industry)

Fourth Grade

4.3.2 Students will compare the characteristics of places and regions and their impact on human decisions

4.3.2.b Classify regions and places within the state of Nebraska using physical and human features (e.g., Sandhills, Pine Ridge, Loess Hills, Platte River Valley, rural/urban/suburban)

4.3.3.b Identify examples of ecosystems located in Nebraska (e.g., forests, wetlands, grasslands, and rivers located in Nebraska)

4.3.5.d Describe environmental issues in Nebraska (e.g., soil conservation, water stewardship, contour farming, minimum tillage, air quality, solid waste)

Fifth Grade

5.3.1.a Name and locate major human and physical features in the United States

5.3.2 Students will compare the characteristics of places and regions and draw conclusions on their impact on human decisions

5.3.3 Students will draw conclusions about the natural processes in the physical world

5.3.3.b Identify examples of ecosystems located in the United States (e.g., forests, deserts, grasslands)

Middle School

8.3.2 Students will examine how regions form and change over time

8.3.2.b Analyze impact of land and water features on human decisions (e.g., location of settlements and transportation systems with respect to the location of river valleys, mountains, deserts, plains, oceans)

8.3.5.c Analyze issues related to the physical environment globally (e.g., water supply, air quality in cities, solid waste disposal, availability of arable land)

Pre-Visit Activities

The following pre-visit activities provide opportunities to prepare for your visit to *Thomas D. Mangelsen: A Life in the Wild*. They also highly contribute to the state standards listed for this lesson. All necessary materials can be accessed by clicking on the links below and are easy to print and use in your classroom.

KWL Chart

Use this list of animals found in the exhibition to research prior to your visit. Work together as a class or in groups to make a KWL chart for one or more of the *italicized and underlined* animals. These are the animals featured most in the exhibition.

[Animal Research](#)

In the link above, you will find a template to organize students' research. Assign animals to individuals or groups and ask them to present on their findings before your visit. Then, encourage students to look for their assigned animal(s) during the tour.

Grizzly Bear

Gray Owl

Bald Eagle

Bohemian Waxwing

Polar Bear

American Kestrel

Western Tanager

African Elephant

Cheetah

Ibises

Bengal Tiger

Moose

Cougar

Leopard

Giraffe

Black Bear

King Penguin

Gorilla

Bison

Elk

Crane

Wolf

Bobcat (or Lynx)

Post-Visit Activities

The following post-visit activities will serve as review and assessment following your visit to *Thomas D. Mangelsen: A Life in the Wild*. All necessary materials can be accessed by clicking on the links below and are easy to print and use in your classroom.

[Species Status](#)

The link above will take you to the World Wildlife Fund's list of endangered, vulnerable, or threatened species. Using the list of animals featured in the exhibition, research animals are on the list and which are not. Discuss what we can do to help protect endangered animals.

Grizzly Bear
Gray Owl
Bald Eagle
Bohemian Waxwing
Polar Bear
American Kestrel
Western Tanager
African Elephant
Cheetah
Ibises
Bengal Tiger
Moose
Cougar
Leopard
Giraffe
Black Bear
King Penguin
Gorilla
Bison
Elk
Crane
Wolf
Bobcat (or Lynx)

Conservation Posters

After discussing the following environmental issues, have students work in groups to create posters for your classroom or school, encouraging fellow students and teachers to do their part to help the environment. Topics could include: water conservation, recycling, erosion, deforestation, and pollution.

Recommended Books and Websites

Please make sure you take a look at the recommended books and websites on the following pages. These are great for both before and after your visit!

Recommended Websites

This list is only a small sample of the many wonderful resources that can be found online regarding both animals and conservation. Consider letting your students explore these sites as a post-visit activity or creating your own project idea using one or more of them. We have provided a short description of each site to help you find what you're looking for.

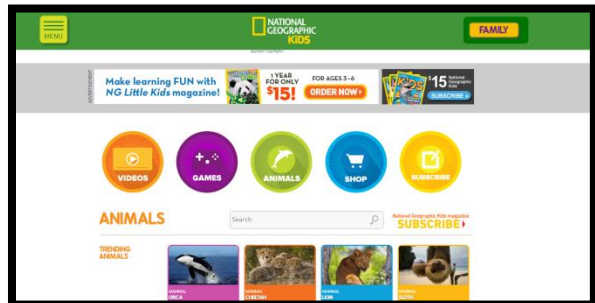
[World Wildlife Fund](#)

The WWF's website contains important information about many animal species, including which are endangered, vulnerable, or threatened.



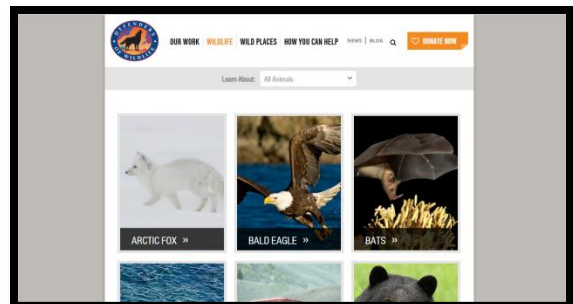
[National Geographic Kids](#)

National Geographic Kids would be a great resource for your class's animal research! Their site includes animal facts, videos, and even games.



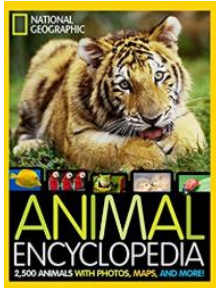
[Defenders of Wildlife](#)

The Defenders of Wildlife page includes information about animal species they strive to protect but also wild places that may be in danger.



Recommended Books

Just like our recommended websites section, this list of books is a small portion of the vast amounts of book that exist about wildlife and conservation concerns. Some of these books are more informative, while others make great read-aloud books. They can be used for a pre- or post-visit activity.



National Geographic Animal Encyclopedia by Lucy Spelman



Animal Atlas by Animal Planet and James Buckley Jr.



One Plastic Bag: Isatou Ceesay and the Recycling Women of Gambia by Miranda Paul



Our Great Earth: Conservation for Kids by Francis Murphy

Classes and Tours with The Durham Museum

Durham Museum Field Trips are offered daily during regular museum hours. Groups must include 10 or more participants to receive the reduced rate. The Durham Museum recommends one teacher/chaperone to every 10 students. Teachers and staff will be admitted at no charge with each registered group. Additional chaperones may attend at \$5/chaperone. Museum members will not be charged the \$5/chaperone fee.

In order for us to provide you the best museum experience possible, we kindly ask that your field trip request be complete two weeks prior to anticipated field trip date.

School Group Rate: \$5/student

Title I School Group Rate: \$4/student

For questions or to book your visit, please contact the education department at 402-444-5027 or email education@durhammuseum.org.

Abby Jung: Curator of Education

Phone: 402-444-5071 Ext. 528

ajung@durhammuseum.org

Taylor Leinen : Education Programs Coordinator

Phone: 402-444-5071 Ext. 561

tleinen@durhammuseum.org

Sydney Wahl: Education Programs Facilitator

Phone: 402-444-5071 Ext. 562

swahl@durhammuseum.org

Michaela Fricke: Education Programs Facilitator

Phone: 402-444-5071 Ext. 529

mfricke@durhammuseum.org