

Discovery Series

2022 - 2023 Resource Guide



ON THE TRAIL OF BIG CATS WITH STEVE WINTER



DAYTON LIVE
Your Home for Arts,
Culture & Entertainment

Monday, January 23, 2023
10:00 a.m.
Victoria Theatre



Welcome to Dayton Live's 2022-2023 Discovery Series in the Victoria Theatre. We are very excited to be your education partner in providing professional arts experiences to you and your students!

During "On the Trail of Big Cats," dedicated explorer and award-winning photographer Steve Winter will take you from Asian jungles where resilient tiger populations persist, to the Himalayas, home of the rare snow leopard. Follow him into the rainforests of Latin America to view the elusive jaguar, and into the Hollywood Hills in pursuit of the American cougar. Co-author of Tigers Forever, Winter's mission is to share the beauty of big cats while working to save them.

The information and activities in this resource guide have been carefully crafted to help you and your students explore the many ways a live theatre experience can open learning opportunities. Grade level icons will help you determine which activities are good for students, too. And don't forget to take advantage of the local resources listed inside to extend the play-going experience and make even more curricular connections for you and your students. Thank you again and welcome!



The Education & Engagement Team

Curriculum Connections

You will find these icons listed in the resource guide next to the activities that indicate curricular connections. Teachers and parents are encouraged to adapt all of the activities included in an appropriate way for your students' age and abilities. *ON THE TRAIL OF BIG CATS WITH STEVE WINTER* fulfills the following Ohio Learning Standards and Benchmarks for fifth through twelfth grade.



Ohio's New Learning Standards Related to *ON THE TRAIL OF BIG CATS*

Science: : 5.LS.1, 5.LS.2, 8.LS.1, 8.LS.2, 8.LS.3, B.E.1, B.E.2, B.DI.2, ENV.ES.1, ENV.ER.5

Social Studies: : Historical Thinking and Skills; Places and Regions; Spatial Thinking and Skills

Arts: TH:Re7.1.5, TH:Re8.1.5, TH:Cn10.1.5, TH:Cn11.1.5, TH:Re8.1.6, TH:Cn10.1.6, TH:Cn11.1.6, TH:Re9.1.7, TH:Cn10.1.7, TH:Re8.1.8, TH:Cn10.1.8, TH:Cn11.1.8, TH:Re7.1.1, TH:Cn10.1.1, TH:Cn11.1.1

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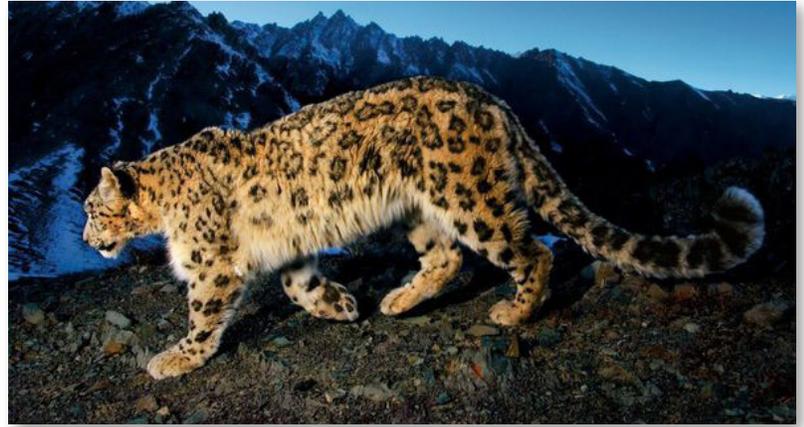
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About the Play

SCIENCE

SOCIAL STUDIES

Steve Winter has been stalked by jaguars in Brazil, charged by a grizzly bear in Siberia, and trapped in quicksand in the world's largest tiger reserve in Myanmar. He has flown over erupting volcanoes and visited isolated villages where residents had never before seen a blond foreigner—or a camera. *"The lesson for me has been that we are all connected: nature, culture, and our modern, technological world."* - Steve Winter



Spotlight On Steve Winter

LANGUAGE ARTS



Growing up in Indiana, Mr. Winter dreamed of traveling the world as a photographer for National Geographic. When he turned seven years old his father gave him his first camera as a birthday gift. Mr. Winter's father taught him the basics of photography and eventually photography became his career. He attended the Academy of Art and the University of San Francisco. After graduating he became a photojournalist for Black Star Photo Agency. Mr. Winter went on to create stories for National Geographic, Time, Newsweek, Fortune, Natural History, Audobon, BusinessWeek, Scientific American, Stern and many other publications. Other clients include UNICEF, Merck Pharmaceuticals, Kessler Institute for Rehabilitation and the list goes on.

Ohio Spotlight

LANGUAGE ARTS

SOCIAL STUDIES



Columbus is home to the Ohio Wildlife Center. The wildlife center is a volunteer-driven, nonprofit organization that has been in existence for over thirty years. During those years, their mission has been to foster an awareness and appreciation of Ohio's native wildlife through education, rehabilitation, and wildlife health studies. The center offers a variety of on-site educational programming for groups, classes, or organizations. They have wildlife encounters, tours, and a program dedicated to the different seasons of the year. They also offer family hikes and different programs throughout the year that are open to the public. You can learn more about the programs of the Ohio Wildlife Center at <https://www.ohiowildlifecenter.org/>.

Pre-Show Conversation Starters

LANGUAGE
ARTS

SCIENCE

SOCIAL
STUDIES

ON THE TRAIL OF BIG CATS with STEVE WINTER is a program that promotes the understanding of how humans have an impact on the lives of wild creatures such as leopards and jaguars. Before seeing the show, discuss the following questions:

- 1 What prior knowledge do you have of big cats?
- 2 Is there anything you wonder about big cats?
- 3 What are some ways humans interact with the natural world that has a positive impact on animals and plant life?
- 4 What are some ways humans interact with the natural world that has a negative impact on animals and plant life?
- 5 How can you be part of the solution when it comes to the negative impact humans have on the natural world?



Steve Winter's Travels

LANGUAGE
ARTS

SOCIAL
STUDIES

Steve Winter's career in wildlife photography has taken him to different areas of the world. Here are a couple of the fascinating places he has visited!

Himalayas, Asia



Geography: The Himalayas are a very long stretch of mountains that create a barrier between Asia and India. They include some of the highest mountains

in the world including Mount Everest. The name Himalaya came from Indian Sanskrit, hima meaning “snow” and *alaya* meaning “abode”. Many of its peaks rise high up to the area where there is always snow.

Animal Life: In higher elevations live the snow leopards, brown bears, lesser pandas, and yaks. The only animal forms that can live up to 20,700 feet are the diverse types of insects, spiders and mites. There are fish that live in the Himalayan streams, along with snakes and lizards. The butterflies of the Himalayas are extremely varied and beautiful. There is an abundant bird life with almost 800 species that have been observed. To name a few, there are black-eared kites, griffons (an Old World vulture), magpies and snow partridges.

Plant Life: Vegetation can be four different types depending on elevation and precipitation: tropical, subtropical, temperate and alpine. There are tropical evergreens, bamboo, oak, and deodar cedar trees. Other plants exist there like juniper, mosses, and lichens.

Brazil, South America

Geography: Brazil is the largest country in South America and the fifth largest city in the world. It has a varied landscape, but is well known for its dense forest, including the Amazon; the world's largest jungle. There are also dry grasslands, rugged hills, pine forests, wetlands, plateaus and a long coastal plain by the Atlantic Ocean.



Animal Life: Some of the birds that live in Brazil are hummingbirds, toucans, parrots, macaws and waterfowl. Mammal populations include capybaras, sloths, monkeys, anteaters, pumas, jaguars, armadillos and otters. Caimans, turtles and anacondas are some of their reptile populations. One might also see a dolphin in one the many waterways that flow from the Amazon.

Plant Life: One-fourth of the world's known plant species are found in Brazil. There are Brazil nut trees, brazilwood, myriad palms, ceiba trees, rosewood, orchids, water lilies and the wild rubber tree.

Snow Leopard Profile

LANGUAGE
ARTS

SCIENCE

ALL
Grades

Name of Animal:
Snow Leopard

Location they were studied:
Himalayan Mountains

Population: 2,500 to 10,000
remain in the wild

Characteristics/Behaviors:

- Long hair of about 2 inches in length
- Soft coat with dense undercoat
- 7 feet in length
- 2 feet high at the shoulder
- Weighs between 50 and 90 pounds
- Color is pale grayish, dark rosettes and dark streak along its spine
- Agile climber
- Gives birth to 2 to 4 cubs within a 93 day period



Diet

- Hunting at night
- Mammals such as marmots
- Wild sheep
- Ibex (wild goat)
- Domestic livestock



Threats

- It's status from endangered to vulnerable changed in 2017.
- Their wild prey has decreased as herding and ranching activities have expanded throughout their geographic range.
- They are killed by herders and ranchers whose livestock leopards have taken. Their hides and bones are sought after by hunters and poachers for the illegal animal trade.

Jaguar Profile

LANGUAGE
ARTS

SCIENCE

ALL
Grades

Name of Animal: Jaguar

Location they were studied:
Brazil, South America

Population: 173,000, most
densely populated in the Amazon
rainforest



Characteristics/Behaviors:

- Live in regions between the United States/Mexico border all the way to Argentina
- Largest feline in the Americas
- Circular black markings in rosettes enclosing one or more small spots
- 3 to 6 feet in length
- Tails are between 1.5 feet to 2.5 feet
- Weigh between 126 to 239 pounds
- Eyes are golden to reddish yellow
- More powerful bite compared to other large cats
- Excellent swimmers

Diet:

- Capybaras
- Deer
- Tortoises
- Iguanas
- Armadillos
- Fish
- Birds
- Monkeys
- Caiman
- Tapir
(South America's largest animal)



Threats

- Cats are safer in the reservations, but in other areas they are hunted by ranchers .
- Also hunted by poachers who get paid for their pelts and jaguar teeth.
- Trade in big-cat skins outlawed globally in the 1970s, but in the last few years, it has rebounded to significant levels.
- Urban and industrial development

Conservation Plan

LANGUAGE
ARTS

SCIENCE

ALL
Grades

Name _____

Here are the definitions on some important words concerning conservation.

conservation: the protection, preservation, management, or restoration of natural environments and the ecological communities that inhabit them.

extinct: having no living members

habitat: the area or natural environment in which an organism or population normally lives.

ecosystem: an ecological community together with its environment, functioning as a unit.

You can be part of the solution in conserving the habitats of animals found in your area! Come up with your own conservation plan by answering the questions below!

- 1 Choose an area of your community where animals and plant life live. Describe the area.

- 2 What animals live in that area?

- 3 What plants live in that area?

- 4 What threats to the wildlife could be happening in that area?

- 5 Choose one of the animals from the area, how would the area be affected if that animal were to go extinct?

- 6 How can you inform others about the threats that this area may experience?

- 7 How can you start to undo some of the negative impact humans had on that area?

- 8 What materials will you need?

- 9 What will the work be once you're in the area?

- 10 What are some positive outcomes that will come from your work?

Track Your Impact on the Earth



Things to Think About

- ▶ In what ways are you being a responsible Earth citizen?
- ▶ Where is the most waste coming from in your home?
- ▶ What can be negative consequences of your waste?
- ▶ What are some ways you can improve your impact on the earth?

	Animal Products Eaten	Water Use	Electricity Use	Recyclables Used	Trash Thrown Away	Car Travel
Sunday						
Monday						
Tuesday						
Wednesday						
Thursday						
Friday						
Saturday						

Animal Travels Passport



ON THE TRAIL OF BIG CATS tracks Mr. Winter's travels around the globe where he encounters amazing animals. Choose three of your favorite animals to research. Below is a passport where you can track your

findings. In the square, draw or paste a picture of the animal you researched. Then, write about the information you gathered about the animal.

Location _____

Description _____

Threat _____

Conservation happening _____

Location _____

Description _____

Threat _____

Conservation happening _____

Location _____

Description _____

Threat _____

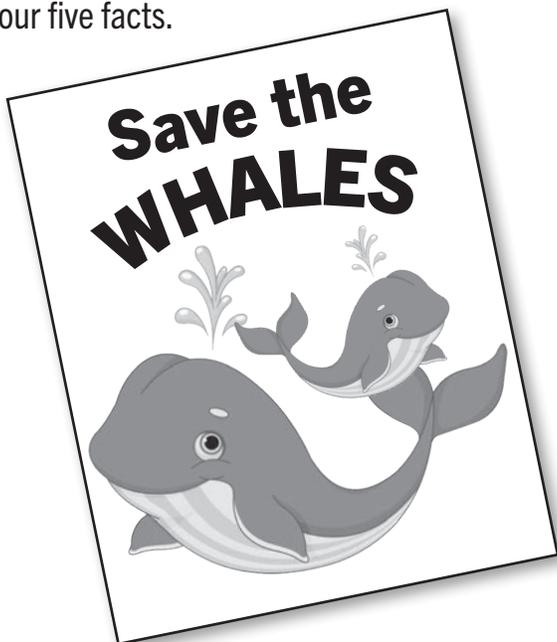
Conservation happening _____

Materials

- Poster board, one per student
- Markers, crayons, colored pencil
- Conservation Fact Sheet, one per student

Poster Elements

- 1 Choose a conservation awareness subject: water, energy, forest, or animal conservation.
- 2 Research different statistics, facts, or tips on how to be successful on your specific conservation type.
- 3 Write down five conservation facts you can include on your poster in the space provided.
- 4 Design your poster! Use a catchy slogan at the top of the poster to raise awareness on why your chosen conservation type is important. Include your five facts.



Different Conservation Groups to Research

- **Water:** Ohio River Foundation, Healthy Water Ohio, Ohio Environmental Council: Great Lakes
- **Forest:** Friends for the Preservation of Ohio State Parks, Dayton Audubon Society, The Nature Conservancy
- **Energy:** Green Energy Ohio, Dovetail Solar, Green Umbrella: Regional Sustainability Alliance
- **Animal:** The Wilderness Center, The Western Wildlife Corridor, Ohio Nature Education

Your Five Facts

Resources for Student and Adults



Books for Students about Conservation and the Environment

Big Cats (A Day in the Life): What Do Lions, Tigers, and Panthers Get up to All Day?

Tyus D. Williams. Neon Squid, 2022.

Race the Wild: Rainforest Relay

Written by Kristin Earhart. Scholastic, 2015.

The Impossible Mountain

Written by David Soman. Little, Brown Books for Young Readers, 2021.

What a Waste:

Trash Recycling, and Protecting our Planet

Written by Jess French. DK Children, 2019.

Heal the Earth

Written by Julian Lennon and Bart Davis. Illustrated by Smiljana Coh. Sky Pony, 2018.

Water, Water Everywhere! Stop Pollution, Save Our Oceans

Written by Pfiffikus. Pfiffikus, 2016.

Websites for Teachers and Students

<https://sdzwildlifeexplorers.org/curriculum/wild-cats-curriculum> - Wild Cats Curriculum covering tigers and the African lion. San Diego Zoo's Wildlife Explorers.

<https://www.pbs.org/wnet/nature/amazon-rainforest/22416/> - Amazon Rainforest: An interactive experience. PBS.

<https://experiments.withgoogle.com/verne> - Verne: The Himalayas by Google Creative Lab. Experiments with Google. Note: The current experiment is no longer active but check the 1,613 others.

<https://naturebridge.org> - Formerly Yosemite Institute, NatureBridge connects over 35,000 students and 700 schools each year to the wonder of science of the natural world, igniting self-discovery and inspiring stewardship of our planet.

Publications for Teachers and Parents

Receive free books in the mail for ages birth to 5! Check the availability in your area with the Imagination Library founded by Dolly Parton. <https://imaginationlibrary.com/check-availability/>

Tigers Forever: Saving the World's Most Endangered Big Cat

Written by Steve Winter and Sharon Guynup. National Geographic; Illustrated Edition, 2013.

Tales of the Dervishes: Teaching Stories of the Sufi Masters Over the Past Thousand Years

Written by Idries Shah. Penguin Books, 1993.

With Broadax and Firebrand: The Destruction of the Brazilian Atlantic Forest (Centennial Book)

Written by Warren Dean. University of California Press, 1997.

Local Resources

For almost 60 years, **Five Rivers MetroParks** has been connecting people with nature. Therefore, protecting open space and natural areas is at the heart of the mission of **MetroParks**, which protects nearly 16,000 acres of forests, grasslands, farmlands and wetlands; 90 percent of which is in its natural state. Conservation efforts focus on river corridors and areas surrounding our parks, preserving habitat on the largest scale possible so that wildlife, flora and fauna have



better places to live and thrive. A way **Fiver Rivers MetroParks** engages with the community in their effort for conservation education is with the program Conservation Kids. This program is designed to provide children a chance to discover nature, learn how to protect it, and gives guidelines on how to evaluate the impact of their work. There are four tiers to this program: Discovery, Act, Share, and Protect. If you would like to have your students partake in the program, visit <https://www.metro parks.org/conservation-kids/> for more information.

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138 North Main Street Dayton, OH 45402

Discovery Series

The Education and Engagement programs of DaytonLive are made possible through the support and commitment of the following sponsors and donors whose generosity have opened the door of live theatre to the students of the Miami Valley:

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Charles Hall
Stephen and Kate Hone
Dorothy Murray

FUELING EDUCATION

Greater Dayton Regional Transit Authority

DAYTON LIVE CREATIVE ACADEMY

Interested in learning more about theatre?!

The new Dayton Live Creative Academy offers a variety of professionally curated performing arts experiences for all ages. From classes for beginners, and summer camps for the adventurous, to Broadway after-school intensives for the curious, there are year-round activities for everyone in the family. Join us for fun, for adventure, and to develop your own creativity. Dayton Live Creative Academy is performing arts education for EVERYONE!

EDUCATION AND BROADWAY PROGRAMS

Broadway Camps and Intensives
Broadway Master Classes
Background on Broadway
Bagels & Broadway

<https://www.daytonlive.org/education/>



Behind every great National Geographic story there is a great storyteller: the writers, photographers, filmmakers, scientists, explorers, and adventurers who bring the world home. National Geographic Live presents these storytellers on stages worldwide. The speaker series began in 1888 with explorer John Wesley Powell who gave a presentation on the physical geography of the United States. Now, National Geographic gives a platform to photographers, explorers, journalists, scientists, filmmakers, and many other innovators who want to share their stories and findings. To learn more about the other programs National Geographic Live!

Offers please visit:

<https://events.nationalgeographic.com/>.

