

EDUCATOR'S INSPIRATION GUIDE

2019 - 2020



Life up close.

Hastings Museum

Natural & Cultural History
Planetarium • Theatre

BOOK YOUR FIELD TRIP: 402.461.2399

Schools Inside Hastings City Limits & Adams Central	Museum Admission	School Programs	2D Films	3D Films	Planetarium Shows & Solar Observing
Students	FREE	FREE	\$4	\$6	FREE
Teachers, Paras & Bus Drivers	FREE	FREE	\$4	\$6	FREE
Adult Chaperones	\$3	Included with Museum Admission	\$4	\$6	Included with Museum Admission

All Other Schools	Museum Admission	School Programs	2D Films	3D Films	Planetarium Shows & Solar Observing
Students	\$3	Included with Museum Admission	\$4	\$6	Included with Museum Admission
Teachers, Paras & Bus Drivers	FREE	FREE	\$4	\$6	FREE
Adult Chaperones	\$3	Included with Museum Admission	\$4	\$6	Included with Museum Admission

Please Note: Spring dates are very popular and fill up quickly. If you want a field trip in May, we recommend booking your visit ASAP.

CALL 402.461.2399 to make reservations. Bring a copy of your school's tax exempt form when attending the Museum.

BUSES unload in the circle drive around the flagpole at the south end of the building. Free bus parking is available in the east parking lot.

FOOD & DRINK is available from many vendors within a few blocks of the Museum. We can provide a list upon request. There is also a picnic area and park behind the Museum.

GROUP SIZE & RATIO

Minimum students per class: 5
 Maximum students per class: 25
 Group size, including students and adults, is limited to 30 people. Groups over 30 people will be split into two groups when doing school programs. We suggest a 1/5 adult/student ratio to ensure a successful visit with your class, but this is not a requirement.



EXPERIENCE OUR BIGGEST EVENT OF THE YEAR!

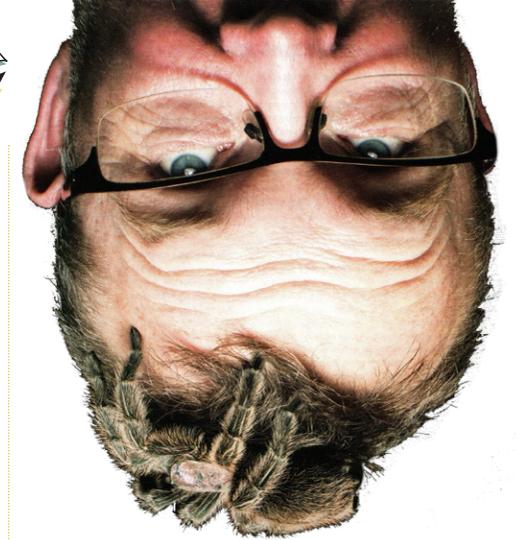
Tuesday, November 19

The Native American Festival (NAF) fills the Museum with opportunities for students to learn about Native American culture up close. This day includes dancing, music, storytelling, and more. Pre-registration is required for all stations.

- » The Many Moccasins Dance Troupe in full regalia!
- » Injunuity will return! This Oklahoma band is passionate about the tradition of the Native flute.
- » This year will consist of special programs in our Theatre, Planetarium, and Classrooms. Our exhibit spaces will be left open for exploration.
- » Take your students on a scavenger hunt through our exhibits. Ask when booking!
- » Additional presenters announced soon. Check online!

Add a planetarium show!

While you are here, try *Spirits from the Sky*, *First Stars*, or *Earth, Moon & Sun*. See the full list on pages 8 & 9. Schedule your show when you register for NAF.

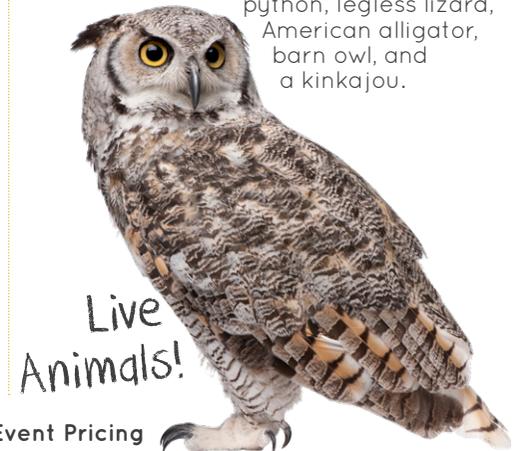


CRITTERMAN

Thursday, Feb. 6 at 9 AM & 1 PM

Millions of years ago giant dinosaurs roamed the earth. Many smaller animals became nocturnal to avoid being eaten. Discover the many different ways animals navigate and thrive in the dark of night! Meet a diverse group of amazing nocturnal animals from Africa, Asia, and North America.

Critterman will bring a variety of creatures including: opossum, Burmese python, legless lizard, American alligator, barn owl, and a kinkajou.



Special Event Pricing

Schools Inside Hastings City Limits & Adams Central	
Students	\$2
Teachers, Paras & Bus Drivers	\$2
Adult Chaperones	\$4

All Other Schools	
Students	\$4
Teachers, Paras & Bus Drivers	\$2
Adult Chaperones	\$4

PRESCHOOL ADVENTURES

These special hands-on programs are approximately 30 minutes long.

HANDS-ON ADVENTURES

Dinosaurs

Little dinosaurs will learn about our prehistoric past through an interactive play. After making their dino tails, they will shake them in a fun movement-based song. We will even get to look at real fossils and learn how they traveled from the dig site to a museum.

Native American Children

We will gather around the tipi as we explore the lives of young Native Americans. Children will get to peek inside an earth lodge, touch real bison objects, decorate a tipi, and end the class by dancing to the beat of a drum.

Nature Explorers

Walk through the Nature Nook to find animals that live in the water, underground, and in the air. Students will discover animals in their natural habitat while learning what they need to survive. We will do a search activity in the exhibit and stamp footprints to take home.

All programs meet Nebraska State Standards and are aligned with Hastings Public Schools' Key Concepts and Essentials.



ELEMENTARY PROGRAMS

Bring natural history, science, and cultural history up close.

PROGRAMS BASED ON STATE STANDARDS

Animal Habitats **NEW!**

Kindergarten

Visit habitats and investigate how animals change their environment. Students will play a habitat game, build food chains, and find examples of the five basic needs.

Edwin Perkins: The Inventor

Grades K-1

We will explore what inventor Edwin Perkins' life was like growing up. In the **Kool-Aid: Discover the Dream Exhibit**, students will sort general store products into needs vs. wants, conduct a smell test to guess the original flavors, and mix their own Kool-Aid combination!

North American Mammals

Grades 1-2

Join us for some furry fun on a tour of the **Wildlife Diorama Hall**. Students will use their observational skills as we investigate how animals survive in their habitats, five characteristics of mammals, and animal diets. We will compare our feet to a polar bear's foot, find our bat family using smell, and work with animal pelts and skulls.

Sea Monsters of Nebraska

Grades 1-2

Did you know Nebraska was covered by an inland sea when dinosaurs walked the Earth? As we tour our **Fossils** exhibit, we'll see the Cretaceous creatures that swam in our seas, including the life-sized *Tylosaurus*! Students will cast their own fossils and dig up clues about Nebraska's prehistoric environment.

Plains Indian Culture

Grades 1-3

Join us as we travel back to the 19th century to discover what life was like for the Dakota, Cheyenne, and Pawnee tribes in the **People on the Plains** exhibit. We will explore their food, clothing, shelter, and daily chores. Students will play a hunting game, grind corn, and get up close to Native American objects. We will end by making a winter count slap bracelet.

Note: These programs run 45 minutes, but can be adapted to meet your needs with prior notice. Please limit to two programs per visit. If you are 15 minutes late or more, your first program could be canceled.

Kool-Aid: A Success Story

Grades 2-3

Nebraska's famous product comes alive in the exhibit, **Kool-Aid: Discover the Dream**. Explore what life was like during inventor Edwin Perkins' youth in the early 1900s. Learn how brand recognition and different advertising techniques helped Edwin make Kool-Aid a household brand. End the day by packaging some Kool-Aid.

Exploring Rocks and Minerals

Grades 3-5

Due to the **Rocks and Minerals** exhibit remodel, this class may not be available during the 2019-2020 school year. Please call Visitor Services for more information.

Corps of Discovery

Grades 4-5

What were the goals on the Lewis and Clark Expedition and how successful was their journey? Find out as we take part in our own Corps of Discovery! Adventurers will describe new animals, collect unusual artifacts, and discover how hard it was to translate different languages. Learn about Sacagawea, York, and the unintended consequences of the Expedition.

Kool-Aid: Impacted by History

Grades 4-5

Experience how Kool-Aid was influenced by historical time periods and events such as the Great Depression and World War II. Go back to Kool-Aid's humble beginnings and explore the **Kool-Aid: Discover the Dream** exhibit highlighting the historical events that shaped Kool-Aid into the product we all know and love. Students will play an inflation game, test their flavor knowledge, and end with a tasty treat!

The Pawnee

Grades 4-5

This program brings the historic Pawnee to life in our **People on the Plains** exhibit. Students will investigate the usefulness of the bison through hands-on discovery and get up close to parts of this important animal. They will practice hand-eye coordination with a traditional hunting game and compare an earth lodge and tipi scene. We will dig into Pawnee farming practices and the Three Sisters crops.

EXPLORE 3 FLOORS OF EXHIBITS



DESIGN YOUR PERFECT DAY

No one knows better than you what connections will mean the most to your students. Are you studying Nebraska history and settlement, or maybe western expansion? We've got real artifacts that tie directly to those topics. Our Theatre, Planetarium, and School Programs offer a wide variety of themes, but perhaps you have a specific idea in mind to suit your classroom. We encourage self-guided tours, and time for students with their chaperones to explore in small groups. Design the day that works best for you. Our exhibits can enhance what you are teaching!

Don't miss these artifacts:

- » Covered Wagon
- » Replica Plains Indian Tipi
- » Early Farming Equipment
- » Replica 1900s Mercantile
- » Pawnee Earth Lodge Model
- » Pioneer Era Log Cabin

The **Nature Nook** was designed specifically for elementary students!

Don't miss:

- » Real animal mounts
- » Interactive learning stations
- » Custom murals of Nebraska landscapes
- » An "underground" tunnel
- » Pop-up stations surrounded by flora & fauna
- » Free-play zones with nature-themed books, puzzles & puppets

3 EXHIBITS TEACHERS LOVE:

Rocks & Minerals: This exhibit is a great way to enhance your teaching on geology and prehistoric history. It's an amazing collection of rocks, minerals, and fossils—both real and replicated—found right here in Nebraska!

Lock, Stock & Barrel: This exhibit features more than 500 firearms. It spans weaponry from the Plains Indians to the Vietnam War. It can tie into American history lessons at numerous grade levels.

Nature Nook: Experience an interactive journey through the natural environments of Nebraska. Students will explore prairie, river, and wetland habitats up close, and investigate human impacts on nature in both rural and agricultural settings. The **Nature Nook** can accommodate up to 30 students. Time in this space is booked like any other educational program at the Museum. Simply inquire with Visitor Services. There is no additional cost for the **Nature Nook**.



NEW! SENSORY BACKPACKS

We've pulled together some creative new products to help folks of all ages breathe, take a break, and calm down so they can enjoy the Museum to the fullest. Our packs include thinking putty, liquid motion bubblebers, noise canceling headphones, stretchy tubes, a map with sensory warnings, and visual schedules.

Creation of these backpacks was sponsored by a grant from the **Sunnyside Foundation** and assistance from **Hastings Noon Sertoma**. Interested?



ACCESSIBILITY UPDATES:

- » Closed captioning of most films
- » Headphones that can assist the hearing impaired, or describe scenes for the visually impaired in the Theatre
- » Open captioning available on select Planetarium shows
- » Select Planetarium shows available in Spanish
- » Spanish translations on many exhibit labels
- » Visual schedules to help students see what you have planned

PLANETARIUM SHOWS

Full dome shows are pre-recorded and include a video image covering nearly the entire dome. A mini Sky Tonight full dome may be added at the close of any full dome show.

FULL DOME SHOWS

One World, One Sky

Grades Pre-K-2 (25 minutes)

Discover the Big Dipper, the North Star, the Sun, and the Moon with your Sesame Street friends. *Also available in Spanish!*

The Little Star That Could

Grades K-3 (36 minutes)

The Little Star discovers how stars are born, die, and why stars are different colors. Near the end of his search, the Little Star finds out about planets.

OC Rusty Rocket's Last Blast

Grades 1-5 (39 minutes)

Audiences will get an introductory tour of the solar system, focusing on the wide variety of planetary environments and immense distances between them.

OC Earth, Moon & Sun

Grades 2-5 (27 minutes)

Learn about the relationship between the Earth, Moon, and Sun with the help of Coyote, a fun character adapted from Native American oral traditions.

OC Two Small Pieces of Glass

Grades 3-12 (25 minutes)

At a modern star party, see how Galileo Galilei built a "spyglass" and first aimed it to the heavens over 400 years ago.

Dawn of the Space Age

Grades 4-12 (41 minutes)

From the launch of the first artificial satellite Sputnik, to the lunar landings and privately operated space flights—be immersed and overwhelmed with this historic reconstruction of man's first steps into space.

Extrasolar Planets

Grades 4-12 (31 Minutes)

Astronomers today are using specialized equipment to observe stars in our galaxy to search for a star with planets orbiting it. This could prove that we are not alone.

OC Nine Planets and Counting

Grades 4-12 (37 minutes)

Discover planets and other celestial objects with a journey through the Solar System. This was produced in 2006 just before Pluto was demoted to a dwarf planet.

OC Season of Light

Grades 4-12 (36 minutes)

We discuss the Winter Solstice and the origins of holiday traditions, concluding with a possible explanation for the famous Star of Bethlehem.

To Space & Back

Grades 4-12 (25 minutes)

Experience an extraordinary story of human ingenuity and incredible engineering, describing how the technology that transports us through space is paving the way for new devices.

Cosmic Colors

Grades 5-12 (32 minutes)

Discover the reasons for color—like why the sky is blue and Mars is red. Go inside the human eye and investigate X-rays by voyaging to a black hole and back.

Mayan Archaeoastronomy

Grades 5-12 (20 minutes)

See the important role played by astronomical observation for the evolution of pre-Hispanic cultures in central Mexico. *Also available in Spanish!*

Spirits from the Sky

Grades 5-12 (33 minutes)

Take an in-depth look at the Pawnee Nation, which thrived in parts of Kansas and Nebraska from the late 1600s to the 1750s. Students will learn how the Pawnee organized their calendar according to which stars were visible in the sky, and hear the Pawnee creation legend.

Black Holes (2016)

Grades 6-12 (35 minutes)

Some of the most mysterious objects known, black holes defy the imagination. Explore how black holes form, their strange properties, and what exactly would happen if you got too close!

OC From Earth to the Universe

Grades 6-12 (32 minutes)

Only recently have we begun to grasp our place in the vast cosmos. Take a journey of celestial discovery, from the theories of the ancient Greek astronomers to today's grandest telescopes.

The Sun, Our Living Star

Grades 7-12 (30 minutes)

Discover the secrets of our star and experience never-before-seen images of the Sun's violent surface.

Cosmic Origins Spectrograph

Grades 9-12 (30 minutes)

This show covers the basics of spectroscopy, and touches on the processing of galactic and extragalactic gas. Other topics include the use of quasars as background light sources, cosmic evolution, and the development of the large scale structure of the universe.

The Sky Tonight

(Full 14 minutes | Mini 7 minutes.)

This is a seasonal sky show discussing the highlights of the current season: Fall, Winter, Spring, or Summer. It discusses the issue of light pollution and how it effects our view of the night sky. It is offered in two formats: the full show and mini show.



Open Captions. If OC is next to the title, captions of the show's narration can be turned on & seen by everyone in the planetarium. Ask for when booking your program.

LIVE SHOWS

The Sky Tonight

Grades K-12 (30-45 minutes)

This is a live, interactive tour of the current evening sky. Bright stars, constellations, planets, and any unusual sights are highlighted during this program. Questions from the audience are encouraged after the show. This show is adapted for different grades and levels of interest.

First Stars

Grade Pre-K (15 minutes)

A shortened version of The Sky Tonight for very young sky watchers introduces the planetarium and its starry sky. This show begins with a sunset and ends with sunrise.

SOLAR OBSERVING

Grades 4-12 (approx. 20 minutes)

Participants safely view the Sun in three different ways: with the unaided eye, through a telescope equipped with a white-light solar filter, and a hydrogen-alpha filter. The outside temperature must be at least 50° F. This activity is recommended for groups of 20 or less.



PLANETARIUM SEATING CAPACITY IS 48. ADDITIONAL SHOWS LISTED ONLINE.

FILMS ON THE SUPER SCREEN

Experience the largest digital 3D screen in Nebraska! Hastings Museum's three-story screen and six channel surround sound will immerse you and your students in new worlds. Our Theatre lets them experience what you are teaching in class through a different lens. You will be amazed at how they respond.



NOW SHOWING IN 3D OR 2D

Superpower Dogs

This film opened in March—but has been extended—because kids are loving it. Experience the life-saving superpowers and extraordinary bravery of some of the world's most amazing dogs. Stories of avalanche search and rescues, long-distance tracking, therapy dogs, and water rescues are all highlighted. Journey around the globe, meet remarkable dogs, and discover their incredible abilities and the astonishing science behind their superpowers.

COMING SOON

Back From The Brink | Opens Nov. 8

Award-winning director Sean Casey highlights three inspiring conservation stories from across the globe. You'll meet Christmas Island Red Crabs; the Golden Monkey of Yunnan, China; and California's Channel Island Fox, the smallest canid (dog-like animal) in the world. At the same time, we'll open a mini-exhibit, called: **The Rhinoceros & The Pangolin**. It highlights the dangers facing rhinos and pangolins—both are being hunted toward extinction due to the demand for their keratin-rich horns and scales. Plus, we'll be highlighting specimens in our collection that are extinct or endangered.

In Saturn's Rings | Opens Jan. 3

In Saturn's Rings is unique as it uses no computer-generated images. Instead, more than 7.5 million real images are used—most of them never before seen! The photographs are from the Cassini-Huygens Mission to Saturn, Sloan Digital Sky Survey, the Hubble Telescope, and more. They're painstakingly assembled with a variety of film techniques to create the effect of flying through space and around Saturn. The project took 12 years, 100 volunteers, and more than 1,500 donors. Narrated by Levar Burton, the film is set to a powerful orchestral score that results in a wonderful combination of science and art.

FILM PRICES

2D: \$4
3D: \$6

Please Note: Theatre admission is required for all students, teachers, bus drivers, paras, and adult chaperones.

Re-use your 3D glasses from a previous visit and save 50¢ per 3D ticket.

MORE CHOICES

Films listed below rotate out of our library on different schedules. Inquire with Visitor Services for exact dates.

Lewis & Clark 2D

Flight of the Butterflies 3D

D-Day 2D

We The People 2D

Tornado Alley 3D

Turtle Odyssey 3D

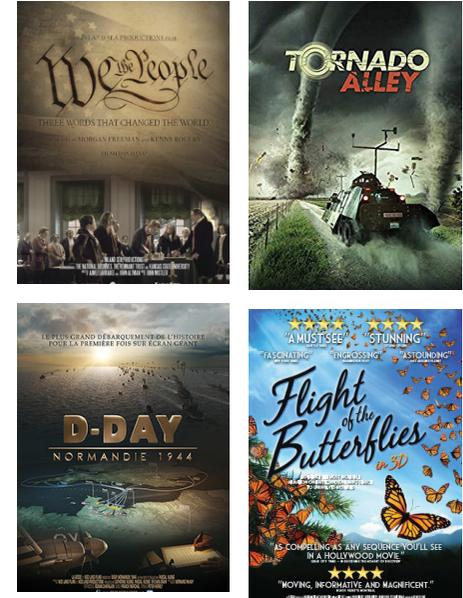
EASY ADD-ONS FOR TEACHERS

The large format films booked at the Museum all have the dual purpose of entertainment and education. Most films have an amazing Educator's Guide teachers can download from: HastingsMuseum.org

Need a poster of different dog breeds? Looking for more information about Yunnan, China, or the Hubble Telescope? These guides can be a great time-saving way to enrich your curriculum!

WANT AN EASY WAY FOR YOUR STUDENTS TO SHOP?

SEE BACK COVER!



Discounts for Teachers

Everyday, teachers pay just \$4 for large format 2D films and \$6 for 3D films, plus tax (family members and guests are charged regular admission fees). Please present your NSEA card for the teacher discount. Save your receipt and present it when you bring your class to see the film, and your ticket is FREE!

Of the estimated 17,500 museums in the United States, less than 5 percent meet the professional standards and best practices required for accreditation. The Hastings Museum is proud to be one of them!

