Field Trip Options
State Content Standards for all grades and programs are reinforced. We strive to take students beyond the standards, knowing that life far exceeds the reach of these important benchmarks. Educators have the option of choosing a variety of Exploration Classes or designing their own Park experience through Independent Exploration. For our Field Trip Planning Guide and other resources, please visit www.turtlebay.org/school-field-trips.

Independent Exploration
Available year-round!
Explore the galleries and grounds, Museum, Paul Bunyan’s Forest Camp, the Gardens and Sundial Bridge in small, chaperone-led groups. Engage your students with the many animals in our live animal collection. Explore all the connections to the natural world by visiting our botanical gardens. Discover the people who have called - and still call - this region their home. Visit our two changing exhibit galleries to see traveling exhibitions.

Exploration Classes
August 28, 2019 – April 30, 2020
Wednesdays and Thursdays, 9 am – noon (unless otherwise noted)
Turtle Bay Educator-led Exploration Classes offer interactive, informational and inspirational experiences. These classes provide opportunities to practice, build on, and connect with Next Generation Science Standards. All programs are 60 minutes long and your group may stay and enjoy the rest of the Park before or after your class. A minimum of 10 students is required for an Exploration Class.

Animals! Animals! Animals!
September 27, 2019 – February 14, 2020
Fridays, 10 am & 11 am
Grades: K-12
Is it a predator or is it prey? Get an up-close and personal look at the animals of Turtle Bay with this staff-led program. Classes will be tailored to each grade level.

Light & Sound
Grades: K-1
Students will conduct experiments to discover the behavior and effects of light and sound waves. Experiments will focus on different types of energy and how energy affects our daily lives.

Matter Matters
Grades: K-2
Discover the many qualities of matter in this exciting and hands-on program. Students will use the scientific method to investigate the states of matter and they will conduct experiments to build on their understanding of why matter really matters.

Nature Explorers Backpacks
August 28, 2019 – April 30, 2020
Grades: PreK-6
Ask for this option when you schedule your Independent Exploration field trip!
With a variety of exciting tools and activities, discover the nature around Turtle Bay’s campus using the Nature Explorers Backpacks. Teachers have the freedom to create an exciting, interactive field trip tailored to their students’ needs.

Materials include: 20 backpacks each containing binoculars, bird identification book, thermometer/compass, window weather frame, journal, magnifying glass, bug jar, and eye scope.

Fee: $10 per 20 backpacks

Life Cycles
Grades: K-2
Metamorphosis and more! Use this class as a springboard to start your life cycle unit or as reinforcement at the end.

Exploring the Forest
Grades: K-3
Uncover a world of forest wildlife that sometimes goes unseen and unnoticed. Students will investigate the structures and functions of trees and discover the secrets hidden in tree rings.

Forces of Nature
Grades: K-3
Floods, winds, heat waves and more – students will investigate the forces and processes of nature that have shaped our planet and climate.

Wintu Ways
Grades: 2-6
Did you know that Turtle Bay sits on what was once Wintu territory? Sit in the replica Wintu bark house and discover how the Wintu used natural materials for shelter, food and tools and learn how they continue to use these materials for baskets, regalia and more, today.

Aqua Ecology
Grades: 2-6
Students will conduct a simulated bio-assessment of a stream by sampling aquatic macroinvertebrates. By learning the process by which macroinvertebrates are assessed, results are recorded and pollution tolerance indexes are determined.
Earth Rocks!
Grades: 3-4
Students will become active participants in the rock cycle as they explore the different processes and forces behind each step. This class includes examples of rocks and sediments for students to analyze and identify.

Perplexing Properties
Grades: 3-4
Explore forces and interactions of large and small through hands-on experiments and demonstrations. Students take the lead as groups hypothesize and perform experiments highlighting unusual interactions.

Engineering Design
Grades: 3-6
Design, build, test, and redesign! Students will get a glimpse at the design thinking process and apply their knowledge as they work in small teams to make a solar panel model for the James Webb Space Telescope.

Forest Ecology
Grades: 4-6
In this outdoor class experience, students will record observations as they investigate how organisms use energy and matter. Students will discover the conservation of matter and the flow of energy in ecosystems.

Science of Small
Grades: 5-6
Even at the smallest of scales, matter still matters! Students will participate in hands-on activities as they explore how structure and size influence the properties of substances all around us.

Our Place in Space
Grades: 5-6
Students will participate in hands-on demonstrations that reveal the mysteries of our solar system. Phenomena explored include gravitational forces, eclipses, and more. Students will also discover the tools and technology that astronomers use to study our solar system.

REU’s Energy Experience at Turtle Bay “It’s My Planet”
Grades: 3-5
September 6, 2019 – April 24, 2020
Fridays, 9 am – noon (90 minute program)
FREE to schools in the Greater Redding area!
$6 student fee and transportation fee underwritten by REU for the following areas:
• All schools 3rd – 5th grade within the Redding City limits
• Schools North to Mountain Gate
• Schools East to Shingletown
• Schools West to Old Shasta
• Schools South to Cottonwood

Redding Electric Utility offers an “electrifying” education program on energy conservation and electrical safety presented by REU staff. Some of the areas covered are electrical safety, energy conservation and saving tips, renewable energy, and an exciting demonstration of the power of electricity performed by experienced REU linemen. After your electrifying REU program stay and explore all of Turtle Bay. Please ask about transportation reimbursement when booking this class.

3rd Grade Museum Art Gallery Experience (MAGE)
February 5 – March 19, 2020
Wednesdays & Thursdays, 9 am – noon
FREE for Shasta County 3rd grade students!
Students will enjoy a docent-led tour of the Jon Schueler: Lost Man Blues, Art and War exhibition followed by a hands-on art project designed to foster creativity. The tour and art project are aligned with 3rd Grade Visual Arts Content Standards.
Supported by Jack and Kristen Schroder
Exhibitions

All exhibitions and dates are subject to change, please call to verify 530-242-3108.

Susan & Kendall Seamans presents

Goose Bumps! The Science of Fear
May 31 – September 2, 2019
Art Gallery & Fitzpatrick Exploration Hall

This exhibition from the California Science Center Foundation presents the many sides of the universal and powerful emotion of fear. Students will experience fear in a safe environment as they participate in a series of fun challenges and discover the science behind their physical and emotional responses.

With major support from U.S. Bank and Dennis & Sherrill Bambauer
Additional support is provided by Best Western Plus Hilltop Inn, C.R. Gibbs’ American Grille, Dutch Bros. Coffee - The Resner Family, and The Blankenber FAMILY - Shasta Pathology Associates.

The Mazur Family presents

Genome: Unlocking Life’s Code
September 21, 2019 – January 2, 2020
Fitzpatrick Exploration Hall

Learn what genomic science can tell us about disease, where we fit into the natural world, and even how humans populated the planet in this high-tech, high-intensity exhibition that takes us deep inside ourselves to explore the mysteries of the human genome. Students will test their DNA sequencing skills, practice making vital decisions, learn how lifestyle impacts genes and much more in this high-quality experience developed and produced by the Smithsonian’s National Museum of Natural History and the National Institute of Health’s National Genome Research Institute in association with Science North.

With support from Tiffany & Eric Blasingame – Redding Periodontal Specialists

Supported by Dennis & Sherrill Bambauer

Mystery of the Mayan Medallion
September 28, 2019 – January 12, 2020
Art Gallery

Targeted at fourth through eighth-graders, this hands-on scientific “treasure hunt” teaches science, language, history, and mathematics as part of a fun-filled mystery. An archaeological team has disappeared from a dig site in Palenque, Mexico. They had been investigating a rumor that a priceless jade medallion is buried in a temple there. The original team has left behind valuable information in their archaeology, biology, and astromathematics field stations. Student archaeologists must uncover the mystery of the site and find the priceless treasure in this exhibition curated by the Arkansas Discovery Network and funded by Donald W. Reynolds Foundation.

Treasure!
January 24 – May 3, 2020
Fitzpatrick Exploration Hall

Sunken treasure? Buried treasure? “X” marks the spot! What is treasure and why does it fascinate us? A dozen hands-on activities let students try the tools of treasure investigation and treasure hunting, including modern technology such as GPS. Special features include actual artifacts from shipwrecks and other sites. Students will also discover what they treasure personally. Explore these concepts in this immersive exhibition from NRGI Exhibits.

Jon Schueler: Lost Man Blues, Art & War
January 31, 2020 – April 26, 2020
Art Gallery

Today, PTSD and its long-term effects are a hot topic that is finally coming out of the shadows. Students will learn about Jon Schueler (1916-1992) a prolific abstract expressionist and a masterful writer. One of the persistent subjects that infused his work was his experience in WWII. His war memories and undiagnosed PTSD haunted him and found expression in his post war work. This exhibition pairs his writings about the war with his beautiful paintings that exemplify the influences of his war experiences and showcase aspects of more peaceful times in his artistic journey.

Making Scents: The Art and Passion of Fragrance
May 23, 2020 – September 7, 2020
Art Gallery

Integrating horticulture, history, and pop culture, this exhibition curated by the North Carolina Arboretum inspires and educates visitors about the storied history and evocative power of scent. From natural ingredients to synthetic chemical combinations, students will uncover the technical processes behind fragrance creation including blending their own custom scent that will leave them thinking about the exhibition for days! We recommend pairing this exhibition with a visit to our Botanical Garden.
**Wicked Plants**  
May 30 – September 7, 2020  
*Fitzpatrick Exploration Hall*  
Inspired by Amy Stewart’s “Wicked Plants: The Weed that Killed Lincoln’s Mother and other Botanical Atrocities,” this fun-filled exhibition curated by the North Carolina Arboretum gives students a safe, hands-on experience with some of the world’s most diabolical botanicals. Entering a ramshackle Victorian-era home, students travel from room to room to learn about various poisonous plants that may be lurking close by, discover a myriad of health effects caused by this bloodcurdling botany, and even investigate a crime scene in the potions laboratory! We recommend pairing this exhibition with a visit to our Botanical Garden.

**Park Favorites**

*Hemsted’s Moving & Storage presents*  
**Walk on the Wild Side Animal Show**  
May 16 – August 14, 2020  
Daily (Except Mondays), 11 am & noon  
See an entirely new, live animal show! Enjoy watching a badger dig, a porcupine climb and an owl fly inches from your head. Marvel as a curious corvid shows off intelligence by solving puzzles. See the animals up close and personal. Join us for a fun-filled educational wildlife show, and see animals showing off their natural behaviors in a captivating and inspiring atmosphere. This show is one that you won’t soon forget.

**Parrot Playhouse**  
Open all year:  
Half hour after Park opens – 11:45 am  
& 1 pm – Park close  
(Closed between 11:45 am & 1 pm)  
Walk through the interactive aviary featuring lorikeets, Australian birds seen in every color of the rainbow! Feed these colorful birds from your own hand!  
$1 for each nectar cup  

*Zip line, rock climb, super slide, oh my!  
At last... the Forest Adventure playground is now open! When your classroom needs to get out their wiggles (and teachers and chaperones need a bit of a break), bring the children over for some challenging fun.*
Energy Experience at Turtle Bay…

“It’s My Planet”

Grades: 3-5
Sept 6, 2019 – April 24, 2020
Fridays, 9 am – noon
(90 minute program)

FREE to schools in the Greater Redding area!
$6 student fee underwritten by REU for the following areas:

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Guidelines for Student Visits

Educators bringing their students to Turtle Bay Exploration Park are expected to plan a schedule that focuses students' attention and creates opportunities to connect learning at the Park with learning in the classroom or community.

**Educators and chaperones are expected to:**
- Stay with pre-assigned chaperone-led groups at all times, regardless of the students’ ages.
- Adhere to the code of conduct established by school systems. Behavior that is not acceptable at school is not acceptable at Turtle Bay Exploration Park.
- Act as facilitators, encourage inquiry, and assist students in navigating through the Park and programs safely and appropriately.

**Please note:** Turtle Bay is not responsible for lost, stolen, or damaged personal property.

**Field Trip Reservations**
- Book your field trip early! Programs fill to capacity and there is a limit to daily school group admissions. Space in May and June 2020 fill quickly!
- Make reservations at least two weeks in advance by calling 530-242-3108.
- With less than 48 hours' notice, there will be a non-refundable $50 charge for cancellations.

**Field Trip Rates**

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<tbody>
<tr>
<td>Teachers</td>
<td>Free</td>
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<tr>
<td>Students</td>
<td></td>
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<tr>
<td>Independent Exploration</td>
<td>$5.00</td>
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<tr>
<td>Animals! Animals! Animals!</td>
<td>$7.00</td>
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<tr>
<td>Other Exploration Classes</td>
<td>$6.00</td>
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<tr>
<td>Extra Chaperones</td>
<td>$8.00</td>
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<tr>
<td>Required Chaperones</td>
<td>Free</td>
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<tr>
<td>Adult Members</td>
<td>Free</td>
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</tbody>
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**Please note:** Field trip rates are not waived for members’ children.

**Chaperones**
Chaperones work with us to help students experience the most productive and educational visit as possible. Chaperones are responsible for the safety of students and the exhibits they visit. Please determine designated chaperones and chaperone-led groups in advance of arrival and distribute a chaperone guide to all adults attending. Please refer to the following required chaperone ratios. Note that teachers are not included in the chaperone ratio, however teacher’s aides are.

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Chaperone Ratio</th>
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<tbody>
<tr>
<td>Preschool</td>
<td>1 adult chaperone per 2 students</td>
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<tr>
<td>Kindergarten &amp; 1st Grade</td>
<td>1 adult chaperone per 5 students</td>
</tr>
<tr>
<td>2nd Grade &amp; Up</td>
<td>1 adult chaperone per 8 students</td>
</tr>
</tbody>
</table>

**Nametags are Required!**
School nametags are required for all students and adults. Turtle Bay Exploration Park uses nametags to admit pre-registered field trip groups. This streamlines the check-in process. All students and adults must arrive at Turtle Bay wearing a nametag with the school’s name only. Matching school or hand crafted t-shirts, visors, etc. are acceptable substitutions for nametags. You will be charged a fee of $0.50 per nametag if we provide one for you!

**Lunches**
If your group decides to have lunch at the Park:
- Plan ahead and have students individually carry a brown bag lunch in a small backpack, or
- If your group prefers to pack all lunches together, a space will be available to set lunches during Museum exploration.
- Please be aware, groups are always responsible for the transport, distribution and clean-up of any food. Picnic tables are available on the back deck of the Mill Building and throughout Paul Bunyan’s Forest Camp. No indoor seating is available.

**Payment**
Preferred method of payment is by purchase order or check. If paying with cash, please bring the exact amount.
Educator Resources

A visit to the Park is just one way we can help you educate your students. We also offer professional development workshops and curriculum materials.

Turtle Bay’s Professional Development Workshops & Lending Library were winners of the 7th Annual Superintendent’s Award for Excellence in Museum Education!

Professional Development Workshop
Great Explorations in Math & Science (GEMS):
Treasure Boxes
Saturday, September 28, 9 am – 12:30 pm
Learn to guide students in using collections of small, interesting objects in an innovative series of mathematics activities. Working with these “treasures” provides fresh and exciting ways for your students to learn and grow. Many important skills as well as science and mathematics concepts come to life. This workshop is perfect for PreK – 3 grades, will provide age-appropriate activities in the areas of statistics, logic, language, and numbers. Participants will receive a curriculum guide and professional growth hours with the completion of the workshop.
To register, please call 530-242-3108.
$30 per participant

Curriculum Lending Library
Turtle Bay’s Lending Library offers classroom kits from various curriculum sources including:
• GEMS (Great Explorations in Math & Science)
• Project Learning Tree
• Growing Up Wild, and more
Registered educators may check out kits that come fully stocked with materials for a classroom of up to 32 students to implement the lesson plans. Activities are perfect for the classroom, afterschool programs, or camps. For a yearly fee of $35 an educator may check out an unlimited number of kits.
Download your registration form here: www.turtlebay.org/lending-library.

Famous Artists Portfolio Program
This FREE program allows parents, teachers, and/or community members to present reproductions of significant artworks to students in the classroom. Portfolio prints are organized into nearly 70 age-appropriate themes. Follow-up art activities are suggested for each portfolio. No artistic experience is necessary—merely an enjoyment of working with children and a belief that art matters. In order to borrow portfolios, you must have completed training in a prior year OR participate in this year’s training. All K - 8th grade students participating in this program are eligible to enter the 2020 Student Art Show, exhibited in Turtle Bay Museum January 31 – April 30, 2020.

Famous Artist Portfolio Program Training
Wednesday, September 18, 2019,
3 – 5 pm
Museum Classroom
To register call 530-242-3148
or email famousartists@turtlebay.org.

Field Trip
Open House
Thurs., Oct. 3, 2019
4 – 6 pm, Museum
Learn how Turtle Bay can support your curriculum. Come meet our educators, experience the Museum, and learn about our classes and resources during this after-hours exploration. Enter to win raffle prizes, including a free field trip for up to 30 students, enjoy free refreshments and network with other educational professional attendees. Visit with other regional programs to help you plan your field trips with North State partner organizations.

This is a free event for teachers and educators. Please register at 530-242-3108 or jdehate@turtlebay.org

Park Hours
WINTER HOURS
September 3, 2019 – April 30, 2020
(Closed Mondays & Tuesdays)
Wednesday – Friday, 9 am – 4 pm
Saturdays & Sundays, 10 am – 4 pm

SUMMER HOURS
Beginning May 1, 2020
Monday – Friday, 9 am – 5 pm
Saturdays & Sundays, 10 am – 5 pm

Please be aware that availability might change due to annual Park maintenance and future Park construction. Visit www.turtlebay.org/visit for up-to-date hours and details.

TURTLE BAY
EXPLORATION PARK.
Wonder-Full.
turtlebay.org/education • 530-242-3108

Printing of this brochure is generously sponsored by Redding Electric Utility.