

2018-2019

Educator's Guide

*Buffalo Museum of Science
and Tifft Nature Preserve*



Buffalo Museum of Science

FIND WHY.

For nearly a century, the Buffalo Museum of Science has been a resource for *why*. Answering many times over. And then asking it again. From exhibits that captivate, to a staff that guides, to a collection that inspires, we are about perpetuating the amazing question of *why* in all who walk our halls.

This is what science is about. And everything is about science. So come explore, discover, wonder, reason, reflect, observe, absorb, realize, dream, and – most important – question.

Find why at the Buffalo Museum of Science.

UPCOMING EVENTS

EDUCATOR OPEN HOUSE | OCTOBER 10, 4 - 7 p.m.

The Buffalo Museum of Science and Tiff Nature Preserve welcome all educators and their families to learn all the the Museum and Tiff have to offer. *Each educator is welcome to bring up to two guests at no cost. Standard admission fees will apply to additional guests. Pre-registration requested by emailing museumreservations@sciencebuff.org or by calling 716.896.5200 ext. 338 by Friday, October 5.*

NEW OPPORTUNITIES

NEW FIND WHY DISCOVERY QUESTS

Find Why Discovery Quests allow your students to explore the museum in a more meaningful way. Choose from a variety of pathways through the museum exploring main themes, such as engineering, water, and more! FREE with group admission!

NEW STARLAB DIGITAL PLANETARIUM

Bring the wonder of night sky to your students! Let us bring our digital planetarium to you. Explore stars and constellations and even planets in our cozy portable dome!

Schedule Your Museum Program

ONLINE

Complete our online reservation request form and our Group Reservations Coordinator will contact you.

PHONE

Call 716.896.5200 x338 to schedule your school program.

EMAIL

Contact our Group Sales Coordinator at museumreservations@sciencebuff.org.

Book early! We recommend placing requests at least one month in advance.

A CNN Top 10
'Global Must
See Exhibition'

-CNN.com

The
Art
of
the
Brick

Nathan Sawaya



FEBRUARY 9 - MAY 5

Open your eyes to a unique artistic medium! Explore a collection of over 80 sculptures made exclusively from LEGO® bricks by renowned artist Nathan Sawaya. Find interpretations of classic works of art, such as Van Gogh's "Starry Night" or da Vinci's "Mona Lisa." See many of Sawaya's original pieces, including a 20-foot-long Tyrannosaurus rex made from more than 80,000 LEGO bricks!



Plan Your Visit

VISIT THE MUSEUM

Join the list of school, preschool, camp and daycare groups that explore our hands-on exhibits, workshops and themed programming every year!

Our state-of-the-art science studios foster hands-on and inquiry-based learning that aligns with your STEM curriculum. There's something for everyone!

We can also customize tours or workshops to suit your curriculum needs. If you don't see the topics or activities you're looking for, don't hesitate to contact us at 716.896.5200 x338 or museumreservations@sciencebuff.org.

Enrich your students' visit with a guided tour or hands-on workshop. The museum offers programs aligned with the New York State Learning Standards in the following subjects:

- Physical Science
- Life Science
- Health Science
- Earth & Space Science
- Engineering & Technology
- Social Studies

Visit sciencebuff.org/educators/field-trips/ for a complete list of programs.

Program Fees (per student)

Group Admission.....	\$9
& Guided Tour.....	\$11
& Hands-On Workshop.....	\$13
& Art of the Brick.....	\$12
National Geographic 3D Films	
20-minute film.....	\$1 per person
40-minute film.....	\$3 per person

Chaperones

We require at least 1 adult for every 10 students. Teachers and chaperones are admitted free of charge up to 1 adult for every 10 students. *Additional adults are \$9 each. Museum memberships and other discounts are not valid for group visits.*

Reservation Adjustment Policy

Final group numbers or changes to your reservation must be provided to the Museum a minimum of 48 hours prior to the scheduled visit. Groups that arrive with fewer people and failed to provide updated numbers 48 hours in advance will be charged the full total due on their initial reservation.

At Your Site

PRICING & CAPACITY GUIDELINES

CLASSROOM PROGRAMS

Pre-K Programs: Limit 20 students. 30 - 45 minutes.

All Other Programs: Limit 30 students. 45 minutes - 1 hour.

An additional materials fee may apply to some programs.

DAYTIME FEES

\$120 for first classroom. \$100 per additional program on the same topic and day.

EVENING FEES

\$170 for first classroom. \$120 per additional program on the same topic and day.

ASSEMBLY PROGRAMS

Limit 300 people. 45 minutes - 1 hour.

DAYTIME FEES

\$325 for first assembly. \$250 per additional assembly on the same topic and day.

EVENING/WEEKEND FEES

\$400 for first assembly. \$250 per additional assembly on the same topic and day.

STAR LAB DIGITAL PLANETARIUM

Limit 100-125 people. Up to five 20 minute sessions. Available for grades K - 8. Large space and high ceilings needed, such as a gym. Requires 45 minute set up and take down. Due to the weight of the planetarium's components, ideal set-up locations are fully accessible to wheeled carts. Please call 716.896.5200 x338 for details.

DAYTIME FEES

\$400 for a two hour program.

EVENING FEES

\$500 for a two hour program.

SCIENCE FUN FESTIVALS

Limit 200 people. 2 hours maximum. Includes four stations.

DAYTIME FEES

\$800

EVENING FEES

\$1000



At The Museum

GUIDED TOURS

Join our facilitators on an engaging tour through the Museum's science studios. Guided tours are suitable for all ages. Tours are approximately 45 minutes to 1 hour.

EVERY OBJECT TELLS A STORY

Explore the different people, places, and environments around the world using pieces from the Museum's array of items and artifacts. Choose two or three exhibit areas to visit during this interactive tour.

WORKSHOPS

Enrich your school's trip with special themed activities with our team of facilitators! Workshops are approximately 45 minutes to 1 hour unless otherwise stated.

GRADES K-2

HEALTHY HABITS | LIFE & HEALTH SCIENCE

Uncover the basics of a healthy lifestyle! Understand the importance of teeth brushing, hand washing, and healthy eating in this hands-on workshop!

NEW LIGHT AND SOUND | PHYSICAL SCIENCE

What makes a sound loud or soft? How does light help us see? What happens when we split up light? Watch how sound can make things move and experiment with light using exciting, hands-on activities.

NEW ANIMALS, PLANTS AND MORE! | LIFE SCIENCE

What is life? Using living and preserved specimens from the Museum's collection, discover just how amazing the living things on the planet can be! From plants to animals big and small, explore what different things need to live.

OUR PLACE IN SPACE | EARTH & SPACE SCIENCE

Why do the sun and moon move the way they do? What causes day and night? Discover the structure of the solar system we call home and understand our place in it!

WEATHER WHYS | EARTH & SPACE SCIENCE

Investigate weather's impact on the world around us! Through hands-on experimentation, students will build an understanding of the basics of weather, including temperature, density, and pressure.

GRADES 3-5

NEW ENERGIZE IT! | PHYSICAL SCIENCE

Energy is vital to our everyday lives, what exactly is it? Using hands-on exploration and demonstrations, students will investigate different forms of kinetic and potential energies, as well as witness how energy can be changed from one form to another.

WILD ADAPTATION | LIFE SCIENCE

From the Arctic to tropical rainforests, discover ecosystems from around the world using biofacts from our collection. Investigate what adaptations help plants and animals survive in their natural habitats, and how changing habitats affect organisms.

NEW STARS AND THE SOLAR SYSTEM EARTH & SPACE SCIENCE

Explore our solar system and understand the motions of objects across the sky! Discover different planets, stars, and constellations in the night sky – and how to find them on your own!

GRADES 3-5 (WORKSHOPS CONTINUED)

DYNAMIC EARTH | EARTH & SPACE SCIENCE

Discover the science and wonder of rocks and minerals! Using the Museum's collection of rocks and minerals, examine the geologic process that make up the rock cycle, including plate tectonics, weathering, and erosion.

HEALTHY BODIES | LIFE SCIENCE

Explore you! Discover the different body systems and learn about important decisions that keep us happy and healthy.

CIVILIZATIONS | SOCIAL STUDIES

Explore major world civilizations, comparing their traditions, beliefs and geography through hands-on learning and using the Museum's education collection. *Select up to three of the following civilization groups: Egypt, Mesopotamia, Eastern Asia, Mesoamerican, Roman, Greek, and Vikings.*

GRADES 6-8

ENGINEERING DESIGN CHALLENGE

PHYSICAL SCIENCE AND ENGINEERING & TECHNOLOGY

Inspire your students to make changes in the world. Using an assortment of everyday items, students will work as a group to engineer a solution to a given problem. Challenges include: Marooned, Energy Conservation, and Water Filtration. *Each challenge is approximately 1.5 hours.*

- **MAROONED** | What would you do if you were stranded in the wilderness? Work as a team to brainstorm and innovate creative ways to survive and get rescued.
- **ENERGY CONSERVATION** | How do you use energy in your everyday life? What uses the most energy? Evaluate your own energy usage and design a plan to insulate a house to conserve the most energy.
- **NEW WATER FILTRATION** | As the world population increases, access to clean drinking water is becoming increasingly scarce. Using everyday items, students will design, build and test a filtration device.

NEW SOLAR SYSTEM SCIENCE | EARTH & SPACE SCIENCE

Find out what we know – and what we don't know – about the solar system. Visualize our place in the solar system and investigate the space travel possibilities of the future.

DISSECTIONS | LIFE SCIENCE

Choose from a wide selection of specimens. Investigate body systems and visualize how structure relates to function. Additional lab fees apply depending on specimen chosen. Book a minimum of 4 weeks in advance.

CIVILIZATIONS | SOCIAL STUDIES

Explore major world civilizations, comparing their traditions, beliefs and geography through hands-on learning and using the Museum's education collection. *Select up to three of the following civilization groups: Egypt, Mesopotamia, Eastern Asia, Mesoamerican, Roman, Greek, and Vikings.*



Outreach to Your Site

LET US COME TO YOU.

We understand that schools and education groups may not have the means or time available to make a trip to the Museum. Not to worry – this is why we're ready to come to your classroom, auditorium or school gymnasium and engage your students with one of our Outreach Programs!

Our experienced facilitators will bring a unique educational experience right to your school through hands-on Classroom Programs, large-scale Assembly Programs, or exciting Science Fun Festivals.

We can also customize our Outreach Programs to suit your curriculum needs. If you don't see the topics or activities you're looking for, don't hesitate to contact us at 716.896.5200 x338 or museumreservations@sciencebuff.org to discuss your needs.

The Museum offers programs aligned with the New York State Learning Standards in the following subjects: Physical Science, Life Science, Earth & Space Science, and Engineering & Technology.

Visit sciencebuff.org/educators/outreach/ for a complete list of programs.

CLASSROOM PROGRAMS

See pricing and capacity guidelines on page 2 (Plan Your Visit).

GRADES K-2

DIGGING DINOSAURS

LIFE SCIENCE AND EARTH & SPACE SCIENCE

What can fossils tell us about dinosaurs? What did they eat? How big were they? Become a paleontologist and examine the fossils of dinosaurs and other creatures that lived long ago!

INSECTIGATION | LIFE SCIENCE

Get up close to some incredible insects! These small creatures have a big impact on the world around us. Examine live insects and other critters, as well as explore their anatomy and behavior.

NEW ANIMALS AROUND THE WORLD

LIFE SCIENCE AND EARTH & SPACE SCIENCE

Take a trip around the globe without leaving your classroom! Using specimens from the Museum's collection, investigate animals from different biomes around the world!

GRADES 3-5

IT'S ELECTRIC | PHYSICAL SCIENCE

Explore electricity in a safe and hands-on way! Build circuits, create a circuit with your body, and experiment with our Van de Graaff static electricity generator.

MAD SCIENTIST | PHYSICAL SCIENCE

Inspire the scientist in your student! Experiment with slimy science, chemical reactions and more in this hands-on program. An available sink is required for this program. *Material fee required.*

NEW BIODIVERSITY BLITZ

LIFE SCIENCE AND EARTH & SPACE SCIENCE

Bring the living world into your classroom! Using items from the Museum's collection, explore plants, animals, and other things from around the world and discover what they need to survive.

GRADES 6-8

CRIME INVESTIGATION | PHYSICAL SCIENCE

Analyze evidence and clues to help solve a crime! In this immersive lab, students will learn how to identify fingerprints, decipher chromatography, and decode DNA.

Schedule Your Museum Program

ONLINE

Complete our online reservation request form and our Group Reservations Coordinator will contact you.

PHONE

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EMAIL

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Book early! We recommend placing requests at least one month in advance.

GRADES 6-8 (CLASSROOM PROGRAMS CONTINUED)

NEW DNA AND GENETICS | LIFE SCIENCE

All life on the planet has one thing in common – DNA. Investigate the molecule that makes us what we are.

ASSEMBLY PROGRAMS

Get your student excited about science with these unforgettable and interactive large-group assembly programs. See pricing and capacity guidelines on page 2 (Plan Your Visit).

GRADES K-2

BUBBLE BLAST

Explore the science of soap. Students will witness exciting experiments that set the stage for bubble science. *Stage show only.*

GRADES 3-8

MOTION COMMOTION

Gravity, inertia, momentum - oh my! Witness the science of matter, motion, and energy with thrilling, mind-boggling demonstrations! *Stage show only.*

SCIENCE MAGIC

Expect the unexpected and explore the "magic" of physics and chemistry with incredible demonstrations about polymers, inertia and more! *Can be adapted for a classroom program.*

SCIENCE BELOW ZERO

Chill out during this super cool liquid nitrogen demonstration, as basic concepts of heat and kinetic energy are explored in mind-boggling ways. *Can be adapted for a classroom program. Materials fee required.*

PLANETARIUM

See pricing and capacity guidelines on page 2 (Plan Your Visit).

NEW STAR LAB DIGITAL PLANETARIUM

Show your students the night sky by stepping into our new digital planetarium.



Tifft Nature Preserve

EXPLORE TIFFT.

Tifft Nature Preserve is the environmental education site of the Buffalo Museum of Science, located on Buffalo's Outer Harbor. The 264-acre Preserve provides refuge to animals and plants from the entire region with its diversity of habitats including a marsh, ponds and woodlands. The multi-use spaces of the Darling Environmental Education Center provide indoor accommodations for lunches and inclement weather.

GUIDED TOURS

Explore the outdoors with a knowledgeable facilitator on a guided tour of Tifft Nature Preserve. These tours support learning standards and enhance science curricula for all grade levels through inquiry-based outdoor learning experiences. Indoor activity alternatives may be offered in the event of inclement weather. See pricing and capacity guidelines at right.

CUSTOM TOUR

Have a unit of study approaching and there isn't a tour or workshop in our offerings that fits that topic? Let us help you customize your visit to make the most of your time at Tifft. Content is adjusted to suit each grade level. Specific content may be requested. Some topics may also be available as a workshop, upon request. *Seasonal availability dependent on topic. Topics include: Adaptations, Biodiversity, Birds, Classification, Conservation, Food Webs, Invasive Species, Nature Journaling, Senses, Trees & Plants, and Observation.*

ANIMAL HOMES & HABITATS

ALL GRADE LEVELS | YEAR ROUND

Learn how local animals adapt to their preferred environments. Students will compare characteristics of the Preserve's various habitats, including grasslands, woodlands and aquatic ecosystems.

EXPLORING NATURE

ALL GRADE LEVELS | MARCH - NOVEMBER

Venture on a sensory-based journey to actively investigate the Preserve's seasonal characteristics. Students will explore plant-animal interactions and real wildlife clues through observation, smell, touch and listening skills, as well as inquiry, direct experiences and drawing conclusions.

NATURE IN WINTER

ALL GRADE LEVELS | DECEMBER - FEBRUARY

Discover how plants and animals adapt to our region's winter conditions. Students can hone their observation skills while searching for wildlife clues. Indoor activity alternatives to the tour may be offered in the event of inclement weather. *Snowshoes may be requested (\$2 per person), weather permitting.*

LIFE CYCLES

ALL GRADE LEVELS | MAY - AUGUST

Explore the Preserve in search of real animal and plant life cycles in action. This customizable tour will give students a look into insect and frog metamorphosis.

TIFFT HISTORY & HUMAN IMPACT

SUGGESTED GRADES 4 - 12 | YEAR ROUND

Discover how Tifft's past, present and future are linked to our region's history. Students will read Tifft's landscape to understand the impact of human activity on the environment and ways of lessening our impact through resource conservation and habitat restoration. *This tour can include a PowerPoint presentation on the history and future of Tifft. Please let the reservationist know if you are interested in this presentation. This tour is also ideal for college classes and adult groups.*

Pricing & Capacity Guidelines

DISCOVERY VISITS

Advance registration required for groups of 10 or more. We reserve the right to turn away self-guided groups that do not make a reservation as they may interfere with other programming.

FEES

\$3 per person.

GUIDED TOURS

Maximum 80 students. Minimum 10 students. One adult required for every 10 students. Adults in 1:10 ratio and required aides are free. Pre-K & K Tours approx. 1 hour. All other grades approx. 1-1.5 hours.

FEES

\$7 per student & \$7 per additional adult (July - March).
\$9 per student & \$9 per additional adult during peak season (April - June).

WORKSHOPS

Maximum 60 students. Minimum 10 students.

Pre-K & K workshops: 2 - 2.5 hours.

All other grade level workshops: 2.5 - 3 hours.

One adult required for every 10 students. Adults in 1:10 ratio and required aides are free.

FEES

\$10 per student & \$7 per additional adult (September - March). \$12 per student & \$9 per additional adult during peak season (April - June).

TIFFT OUTREACH

Pre-K Programs: Limit 20 students. 30 - 45 minutes.

All Other Programs: Limit 30 students. 45 minutes - 1 hour. *Due to the hands-on and interactive nature of our programs and to ensure the best possible quality experience, we ask that you respect our class size limits. If limits are exceeded, an additional fee of \$100 (daytime program) or \$120 (evening/weekend program) will be added. Additional mileage fee will be added for round trip travel.*

DAYTIME FEES

\$120 for first classroom. \$100 per additional program on the same topic and day.

EVENING FEES

\$170 for first classroom. \$120 per additional program on the same topic and day.

*Book Today! Call 716.825.6397,
email tiffreservations@sciencebuff.org
or visit tiff.org*



Tifft Nature Preserve

WORKSHOPS

In-depth science activities give students hands-on experiences both indoors and outdoors. Workshops include interactive activities as well as a guided tour of the Preserve. Indoor activity alternatives to the tour may be offered in the event of inclement weather. Engage your class in a unique, inquiry-based learning opportunity that supports the New York State Learning Standards. Workshop content is adjusted to suit different grade levels. See pricing and capacity guidelines on page 5 (Tifft).

WHAT'S THE NICHE?

GRADES PRE-K - 2 | SEPTEMBER - JUNE

Investigate real animal homes and various habitats of Tifft. Through hands-on explorations and a guided tour, students discuss survival needs, work together to construct animal homes, and match animals to their proper habitats.

SEEDS & NEEDS

GRADES PRE-K - 2 | SEPTEMBER - JUNE

Explore the needs of seeds, plant parts and species diversity. Through hands-on activities and a guided tour, students investigate the shape and function of real plant seeds, create an imaginary seed designed for dispersal and plant seeds in pots to take back for observation.

WINTER SCIENCE

GRADES 3 - 12 | DECEMBER - FEBRUARY

Compare winter animal survival adaptations. Students will use weather monitoring instruments, conduct an experiment, and search for evidence of animal survival on an outdoor hike. *Indoor activity alternatives to the tour may be offered in the event of inclement weather. Snowshoeing may be requested (\$2 per person), weather permitting.*

ECOSYSTEMS & ADAPTATIONS

GRADES 3 - 12 | SEPTEMBER - JUNE

Compare and contrast the diversity of ecosystems that make up Tifft while on a guided tour of the Preserve. Inside, students will examine bird biofacts to learn about adaptations up close and work in groups to design their own imaginary species.

AQUATIC ECOLOGY

GRADES 3 - 12 | APRIL - OCTOBER

Discover our essential connection to water and water habitats of the Great Lakes region. Through hands-on water quality testing and macroinvertebrate sampling, students will discuss watersheds, aquatic biodiversity and human impact. *To include fishing, add \$2 per student. This informative program is ideal for older students interested in an immersive study of the waters of the Great Lakes region.*

NATIVE AMERICAN LIFE & LORE

GRADES 3 - 12 | SEPTEMBER - JUNE

Explore the history and culture of the Haudenosaunee. Through indoor hands-on exploration and a guided tour, students will investigate and implement real tools and artifacts while discovering Seneca survival strategies and daily life activities.

WILDERNESS SURVIVAL

GRADES 6 - 12 | SEPTEMBER - JUNE

Discuss survival needs and venture on a guided journey indoors and outdoors in search of shelter, water, food, and fire building materials. Students can implement team-building skills while constructing a lean-to, as well as learn knot-tying, the importance of fire and wayfinding techniques.

DISCOVERY VISITS

Choose a Discovery Visit for an unstructured, self-guided tour and discover Tifft Nature Preserve at your own pace! With 264 acres to explore, you and your group will be amazed by the abundant flora and fauna that you'll discover. You can even create your own nature scavenger hunt and weave your teachings into an outdoor nature experience. See pricing and capacity guidelines on page 5 (Tifft).

OUTREACH TO YOUR SITE

Can't come to Tifft? Bring nature into your classroom! These hands-on programs will bring items from the Buffalo Museum of Science and Tifft Nature Preserve's education collection to your students for a learning experience like no other. Choose from a variety of topics to support your desired curriculum. See pricing and capacity guidelines on page 5 (Tifft).

CLASSROOM PROGRAMS

STORIES IN HAND | GRADES PRE-K - 1

Share in a hands-on, nature-themed storytime. Stories will be brought to life for young learners with real biofacts of animal fur, bones and wildlife clues to see, feel, and investigate. *Program length is 45 minutes.*

NATURE DETECTIVES | GRADES PRE-K - 5

Put on a detective hat and use sight, smell, hearing and touch to investigate real clues left behind by different local animals. Students will learn lessons in habitats, adaptations and food webs.

MEASURING MAMMALS | GRADES 5 - 8

Use measurement, observations and inquiry to explore real furs, skulls and mammalian characteristic of local species. Through this hands-on process, students will compare features and adaptations of carnivores, omnivores and herbivores.

ENERGY EXPLORATIONS | GRADES 5 - 8

Understand why energy is vital to the world and all the people who live in it. Students will investigate what energy is and how we all use energy, plus explore renewable and non-renewable resources and the impacts of energy-related choices.

ANIMAL ARCHITECTURE | GRADES 2 - 5

Investigate real animal shelters such as bird and insect nests, small burrows and plant galls from the Tifft Education Collection. Students can work in teams to create their own small shelter in the classroom from natural materials, investigate the importance of shelters in various habitats, and the adaptations of the animals that made them.

Schedule Your Tifft Program

ONLINE

Complete our online reservation request form and our Group Reservations Coordinator will contact you.

PHONE

Call 716.825.6397 to schedule your school program. Office hours are Monday - Friday, 8:30 a.m. - 4:30 p.m.

EMAIL

Contact our Group Sales Coordinator at tifftreservations@sciencebuff.org.

Book early! We recommend placing requests at least one month in advance.



Buffalo Society of Natural Sciences
 1020 Humboldt Parkway
 Buffalo, NY 14211
 716.896.5200

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PAID

Buffalo, NY
 Permit No. 285



**FIND
 WHY.**



Valuing Nature's Wisdom



The programs of the Buffalo Society of Natural Sciences are supported in part by public funds from the County of Erie; City of Buffalo; New York State Office of Parks, Recreation and Historic Preservation; and our members and friends.

Buffalo Museum of Science

1020 Humboldt Pkwy
 Buffalo, NY 14211
 sciencebuff.org

PHONE 716.896.5200
TOLL FREE 866.291.6660

MUSEUM HOURS

Monday - Tuesday	10:00 a.m. - 4:00 p.m.
Wednesday	10:00 a.m. - 9:00 p.m.
Thursday - Sunday	10:00 a.m. - 4:00 p.m.

Tifft Nature Preserve

1200 Fuhrmann Blvd
 Buffalo, NY 14203
 tiff.org

PHONE 716.825.6397

VISITOR CENTER HOURS*

Wednesday - Saturday	10:00 a.m. - 4:00 p.m.
Sunday	12:00 p.m. - 4:00 p.m.

TRAIL HOURS

Open daily from dawn until dusk.

* Monday & Tuesday reserved for group programs only.

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