EDUCATIONAL PROGRAMS 2016-2017

Bring your students aboard a historic aircraft carrier for a trip they will never forget! Learn STEM principles with our hands-on workshops or walk in the footsteps of sailors who served aboard USS *Hornet* and experience history through their eyes! Programs are available for all ages and subjects!

USS HORNET
Sea, Air & Space Museum

WELCOME!

The goal of each Educational Program aboard the USS Hornet Sea, Air, & Space Museum is to use the unique, stimulating environment of this historic aircraft carrier to teach science and history concepts in an interesting, interactive, and fun manner. Each program features a theme-based tour of the ship with hands-on activities. For the maximum experience of what the Museum offers try one of the overnight stays!

"The Hornet creates a great reference for my students to understand how the science, math, and engineering they are learning are applied in real life!" – Nathan Haley, Stockton CA

To Make a Reservation

To make a reservation for any of the educational programs in this pamphlet, or for any questions, please contact the Education Department:

Phone: (510) 521-8448 x224

Email: edu@uss-hornet.org

An Online Application form is available at https://www.uss-hornet.org/youth-education/education-programs-application/

For all programs, box lunches are available for an additional $8.50 per person.

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STEM-TO-STERN JR.

Grades K-8

Come aboard and discover a museum experience where science and history meet hands-on exploration! Based on the Next Generation Science Standards, these workshops allow students to explore physics and Earth sciences in a hands-on learning environment. They can see first-hand how classroom concepts are put to use powering a ship, launching aircraft, and more. Our STEM labs provide a learning experience that merges history and science together in a way that only the USS Hornet Sea, Air, & Space Museum can!

Options for program stations include:

Take Flight! (Grades K-2)

Find out what causes weather and hear tales of the 1945 typhoon that crippled Hornet's Flight Deck and Fo'c'sle and changed naval architecture. Learn the basics of aviation and discover how weather affects navigation on the sea and in the air by plotting a new course for the ship that allows the planes to take advantage of the wind and then launch your own gliders on the Flight Deck.

Ship Shape! (Grades 3-8)

Explore the ship and the STEM concepts behind her structure and systems. See up-close the amazing machinery that powered the ship and launched aircraft, as well as learn the engineering story of the Apollo missions.

The program includes a tour of the ship with a hands-on STEM activity selected from the following topics:

- Mechanics
- Aerospace
- Electromagnetism

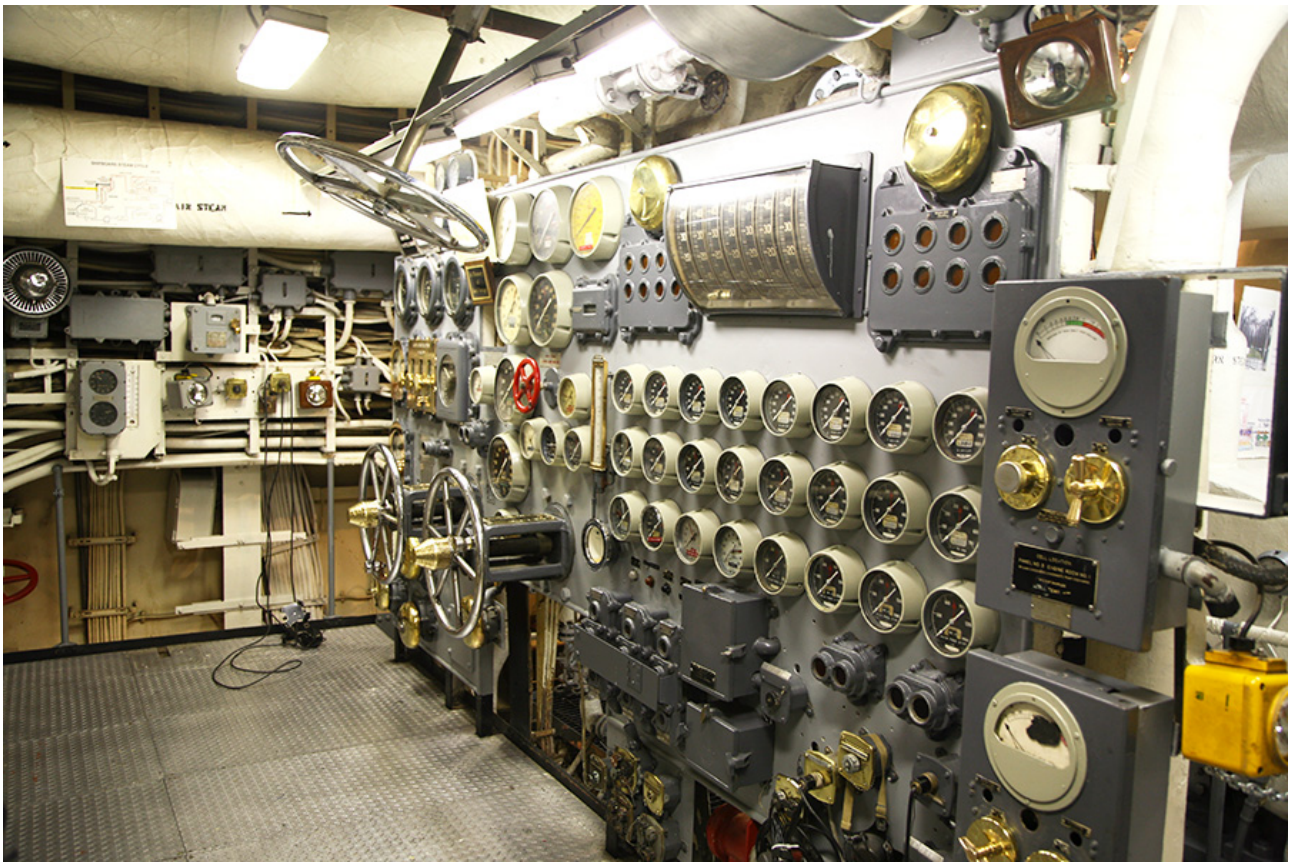
STEM-TO-STERN SR.

Grades 9-12

How did chemistry, physics, and mathematics contribute to the operational functions of a WWII aircraft carrier? What role does science and technology play in history? How does modern technology compare with vintage technology?

From the engines, to the machines in the Fo'c'sle, to the catapult hydraulics, and communication systems, investigate the engineering marvel that is USS *Hornet* and select a hands-on STEM activity from the following topics:

- Mechanics
- Aerospace
- Electrochemistry *(New!)*



	Students	Students with Flight Simulator	Chaperones	Chaperones with Flight Simulator
Price	$8.00	$13.50	$9.00	$14.50

FIELD TRIP AT SEA

Grades K-12

The Field Trip at Sea is a docent-led tour highlighting *Hornet's* history and the Apollo missions. This program expands students' horizons, develops new vocabulary and concepts, and helps them explore the ship's unusual educational environment. Participants:

- Tour the historic Navigation and Bridge where the captain commanded
- Learn how aircraft launched and landed on the Flight Deck with its catapults and control tower
- Learn how 15 men worked together to fire the big 5-inch guns
- See historic aircraft on the Hangar Deck
- Experience how the crew lived below decks in their own "city"
- Walk on the footprints of the astronauts' first steps back on earth
- Enter the Mobile Quarantine Facility used by the Apollo 14 astronauts
- Ride the Flight Simulator featuring a mission that takes off and lands on the deck of a carrier

	Students	Students with Flight Simulator	Chaperones	Chaperones with Flight Simulator
Price	$7.00	$12.50	$9.00	$14.50

STEP INTO HISTORY

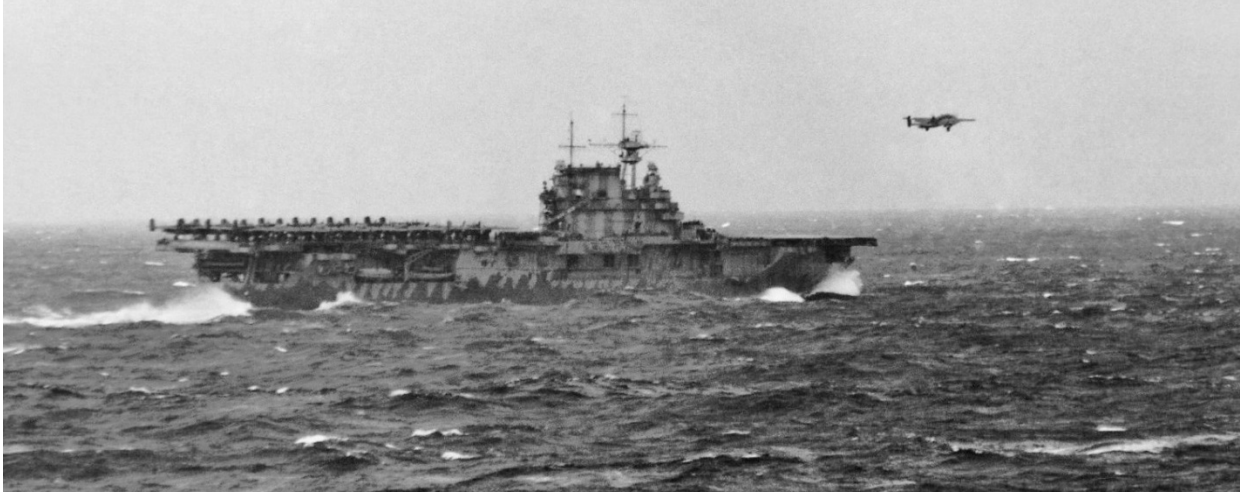
Grades 8-12

This program is based on the 11th Grade California Standards and uses the ship as a platform for teaching various aspects of 20th century U.S. and World History in our unique venue. We provide lesson plans in your classroom prior to your day on USS *Hornet*. Students then board the ship in the morning, are provided workbooks, split into groups, and rotate through five learning stations staffed by a Hornet Educator. You and your class are invited to experience history like never before, using our ship locations, artifacts, multi-media presentations, and historic film footage!

Step into History allows you to choose 5 different subject locations for your visit:

- "Cell Phone, Hybrid Car? Thank WWII" (Engine Room and Crew's Mess)
- "One Small Step for a Man…" (Hangar Bay 2 – Apollo Exhibit)
- "Life or Death, Hide and Seek" (Navigation Bridge)
- "The Greatest Battle You've Never Heard Of" (Hangar Bay 1 – TBM Avenger)
- "Rise of a Superpower" (Officers' Wardroom)
- "Overcoming Oppression" (442nd Regiment Exhibit)
- "US vs Them – A Way of Life" (Forecastle)
- "The History of the USS Hornet" (Captain's In-Port Quarters)

	Students	Chaperones
Price	$12.00	FREE



PASSPORT TO HISTORY

Grades 2-5

Walk in the actual footsteps of USS *Hornet* sailors!

Come aboard one of America's most fascinating aircraft carriers for a fun-filled day that will transform your students into actual World War II sailors! *Passport to History* offers students the rare opportunity to become a sailor from different naval ranks and experience ship life from a unique historical perspective. Your students will be guided through a special tour of the ship that discusses topics ranging from where enlisted crew slept to how WWII changed the San Francisco Bay Area.

What makes the Passport to History School Program so unique is that students will be assigned a passport and an actual identity of a real sailor who served aboard the ship. The passport will include the rank of a genuine past *Hornet* crewmember and your students will learn more about the particular naval responsibilities of the sailors as they tour. This passport provides the chance for guests to connect with history on a personal level.

Not only will you exclusively tour the ship, you will also learn what life was like in the Navy.

Only on *Hornet* can the past become so alive…

	Students	Students with Flight Simulator	Chaperones	Chaperones with Flight Simulator
Price	$10.00	$15.50	$9.00	$14.50

STEM NIGHT OPS OVERNIGHT

Grades K-12

Bring your students onboard for an unforgettable night of STEM learning! During the Night Ops Overnight your students will visit select areas of the ship to see various spaces and systems and discuss the science and engineering behind them. As the students move around the ship, they will participate in several hands-on science stations and demonstrations by our STEM Team to illustrate the science behind USS *Hornet*. STEM Night Ops is currently available during the weeknights (Monday-Friday).

We offer the ultimate Science-themed overnight experience for schools & youth groups, offering:

- Sleep in restored berthing compartments where the real *Hornet* crew lived
- Enjoy dinner and breakfast in the Crew's Mess
- Hands-on STEM labs
- Learn about NASA's Apollo 11 and Apollo 12 missions that put the first humans on the Moon
- Ride the Flight Simulator – experience what it's like to catapult and fly from the carrier
- STEM-themed tours of the mechanical spaces of the ship
- Complimentary Sailor Hat for each student

	Students	Chaperones
Price	$55.00	$55.00