ON-SITE PROGRAM

Program: Historical Perspectives
Grade Level: 6th to 12th grade
Group Size: min. 15, max. 80
Length: 3 hours
Location: Pacific Aviation Museum Pearl Harbor

Overview

This field trip program teaches students about the pivotal first six months of World War II in the Pacific through the stories of those who experienced it. They also complete maneuvers on a flight simulator, examine the importance of designing and engineering for a specific job or mission, and complete an engineering challenge inspired by the first flight from California to Hawaii.

Objectives

- Understand the events surrounding the Pearl Harbor attack and their impact
- View historical events through the eyes of those who experienced it
- Explain the relationship between design and function in aircraft
- Learn about basic flight instruments and controls
- Use engineering design process to create and redesign a plane that meets specific characteristic
- Work collaboratively to complete a task

Activities

- Hangar 37 Historical Tour
- Flight Lab
- Hangar 79 Tour
- PN9 Engineering STEM lesson

Standards Supported-Common Core/HCPSIII/C3 Framework/Next Generation Science Standards

Hawaii Content & Performance Standards III
Social Studies
SS.6.2.2 Explain the past on its own terms; not judging it solely by present-day norms and values
SS.9MHH.3.7 Identify events leading to the bombing of Pearl Harbor and describe its effects in Hawaii
SS.10.3.16 Analyze the causes of the bombing of Pearl Harbor
SS.10.3.17 Analyze the effects of the bombing of Pearl Harbor
SS.10.3.18 Explain the turning points in the European and Pacific theaters of World War II
Science
SC.6.2.1 Explain how technology has an impact on society and science
SC.6.2.2 Explain how the needs of society have influenced the development and use of technology
SC.8.2.1 Describe significant relationships among society, science and technology and how one impacts the other

Common Core:
CCSS.ELA-LITERACY.SL.6-8.1 Engage effectively in a range of collaborative discussions
CCSS.ELA-LITERACY.SL.6-8.1.C Pose and respond to specific questions with elaboration and detail
CCSS.ELA-LITERACY.L.6-8.4 Determine or clarify the meaning of unknown and multiple-meaning words and phrases
CCSS.ELA-LITERACY.L.6-8.4.A
Use context as a clue to the meaning of a word or phrase.
CCSS.ELA-LITERACY.RST.6-8.4
Determine the meaning of symbols, key terms, and other domain-specific words and phrases
CCSS.ELA-LITERACY.SL.9-12.1 Initiate and participate effectively in a range of collaborative discussions
CCSS.ELA-LITERACY.SL.9-12.1.C Propel conversations by posing and responding to questions that relate the current discussion to broader themes or larger ideas
CCSS.ELA-LITERACY.L.9-12.4 Determine or clarify the meaning of unknown and multiple-meaning words and phrases

C3 Framework:
D2.His.1.6-8 Analyze connections among events and development in broader historical context.
D2.His.3.9-12 Use questions generated about individuals and groups to assess how the significance of their actions changes over time and is shaped by the historical context
D2.His.4.9-12 Analyze complex and interacting factors that influence the perspectives of people during different historical eras.

Next Generation Science Standards
MS-ETS1-1 Define the criteria and constrains of a design problem with sufficient precision to endure a successful solution.