

ON-SITE PROGRAM



Program: A Riveting Journey

Grade Level: 2nd grade

Group Size: min. 15, max. 45

Length: 2 hours

Location: Pacific Aviation Museum

Overview

Students take on the role of mechanics in a tour of Hangar 37 to identify parts of the Museum's historic airplanes, and compare the similarities and differences between the designs of each part on the planes. They will also hear a story about integrity and innovation, learn about women's role in aviation and engineering and sit in the cockpit of a helicopter to experience what it's like to be a pilot.

Objectives

- Identify parts of an aircraft and explain their function
- Experiences that enable students to imagine themselves as pilots
- Learn about women's roles in aviation and STEM fields
- Collect and interpret data to gain understanding about aircraft design

Activities

- Parts of a Plane tour of Hangar 37
- Story time with *Rosie Revere Engineer* by Andrea Beaty and riveting team activity
- Flight Suits and Helicopter Open Cockpit

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Standards Supported-Common Core/NGSS

Common Core

Literacy

CCSS.ELA-LITERACY.SL.2.1

Participate in collaborative conversations with diverse partners about grade 2 topics and texts with peers and adults in small and larger groups.

CCSS.ELA-LITERACY.SL.2.1.A

Follow agreed-upon rules for discussions (e.g., gaining the floor in respectful ways, listening to others with care, speaking one at a time about the topics and texts under discussion).

CCSS.ELA-LITERACY.SL.2.2

Recount or describe key ideas or details from a text read aloud or information presented orally or through other media.

CCSS.ELA-LITERACY.SL.2.3

Ask and answer questions about what a speaker says in order to clarify comprehension, gather additional information, or deepen understanding of a topic or issue.

CCSS.ELA-LITERACY.L.2.4

Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 2 reading and content, choosing flexibly from an array of strategies.

Math

2.OA.2 : Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers.

2.OA.4 : Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.

Next Generation Science Standards

2-PS1-2 Make observations to construct an evidence-based account of how an object made of a small set of pieces can be disassembled and made into a new object.