

Silicon Valley STEM Tour

Sample Itinerary



Day 1

Morning

Travel to San Jose, CA

Afternoon

Stanford University

Enjoy lunch at one of the top-ranked science and engineering universities in the world.

Stanford Science and Engineering Quad Tour

Explore Stanford's state-of-the-art Science and Engineering Quad (SEQ) with a student guide. Learn about engineering history, sustainable building technology and Stanford's world-renowned engineering programs.

Intel Museum: Journey Through Decades of Innovation

Museum staff engage students and youth groups as they explore the complex world of silicon technology to help them understand how Intel is changing the way we live, work, and play. Students go behind the scenes to learn about Intel microprocessor history, silicon chip design and chip fabrication.

Intel Youth Education Program: Puzzle Ball

In this lab activity students will focus on instruction set writing as well as problem solving and teamwork. Working in teams of two, students disassemble a puzzle ball and write a step-by-step instruction guide for reassembly. Teams trade instruction sheets and follow another team's instruction set to reassemble their puzzle ball.

Evening

Dinner: Guest Speaker TBA

Day 2

Morning

Computer History Museum

The Computer History Museum offers a wide variety of exhibits, research data and a rich library of multimedia content garnered from some of the most influential people of the computing era. Take time to dig deeper into computing history and the one-of-a-kind information available here.

Computer History Museum: Making History Workshop

Using lessons from the past to inform creative thinking about the future, students explore our changing relationships to technology and to devise exciting proposals for technologies we won't be able to live without in the future. Activities include visual analysis of complex objects through observation, discussion and drawing.

Afternoon

Adventure/Outdoor Activity TBA

Take part in an outdoor team building activity such as a redwood canopy tour.

Evening

Dinner: Guest Speaker TBA

Day 3

Morning

The Tech Museum of Innovation

Experience a dynamic learning center devoted to science and technology. Visitors are challenged to take risks, find answers, think "outside the box," be willing to fail, persevere to the end, remain optimistic and maintain their sense of wonder.

The Tech Museum of Innovation: Chemicals of Innovation Workshop

Students explore chemical properties and bring the periodic table right into their hands as they experiment with chemical reactions to discover dramatic results and see how chemicals work in Silicon Valley inventions.

Afternoon

The Tech Museum of Innovation: Engineering for Earthquakes Workshop

Students learn about earthquakes and engineering principles. Then they will design and construct seismically sound buildings that get put to the test on a shake table simulating seismic waves.

Evening

Dinner at Peggy Sue's

Day 4

Morning

The Tech Museum of Innovation (Day 2): Physics of Roller Coasters

Students design their own roller coasters to learn how engineers create prototypes and build machines. They will also explore kinetic and potential energy, friction and Newton's 1st and 2nd Laws of Motion.

Afternoon

Depart for Home

