



## STEM Program – 21 Days

### Day 1

Arrival into Orlando International Airport

**Orlando Tour Manager will meet you at Baggage Claim**

Motorcoach transportation to **Orlando Science Centre**

4:30 pm Transfer to Hotel to check-in

5:30 pm **Buffet Dinner at Hotel**

### Day 2

7:30 am **Deluxe Continental Breakfast** at Hotel

8:30 am **Transfer to Sea World**

11:00 am Participate in **The Ocean Discovery program** (Shamu Stadium) - *which provides your students with an age appropriate and interactive 30-minute presentation on animal husbandry and training and educational activities throughout the park.*

1:30 pm Participate in a **Behind the Scenes Tour** - *Approximately a 75-minute tour to discover how their animal experts care for rescued manatees and sea turtles. Plus, touch a shark and interact with a penguin.*

2:45 pm Free time in Sea World

**Sea World Meal Voucher** for Dinner

6:15 pm **Transfer** transportation to hotel

### Day 3

6:30 am **Deluxe Continental Breakfast** at Hotel

7:00 am **Transfer to Disney's Epcot Park**

7:45 am Participate in **The Evolution of Technology Workshop** - *During this adventure, students grades 6-12 will come to understand the broader scope of technology and how innovation is inspired. In this 3-hour academic adventure, attraction experiences help demonstrate the factors that drive technology development and how mankind's challenges are being aided by these advancements.*

10:45 am After the Workshop - Spend the rest of the day in the Park

**Disney Meal Voucher**

10:00 pm Evening laser and fireworks show at Epcot "**IllumiNations: Reflections of Earth** - *A night time show performed nightly at Epcot at the Walt Disney World Resort. The show utilizes fireworks, pyrotechnics, laser lights, fountains, and fire to create a visual production on the park's World Showcase Lagoon.*

11:10 pm **Transfer** back to hotel

### Day 4

6:00 am **Deluxe Continental Breakfast** at Hotel

6:30 am **Transfer to Disney's Magic Kingdom**

7:15 am Participate in **Properties of Motion Physics Lab 301 Workshop** - *Students in grades 9-12 will discover Magic Kingdom Park from a new angle as students learn the inner workings of their favorite rides and shows. During hands-on experiments in this 3-hour academic adventure students work together to test potential and kinetic energy, centripetal force and vertical and lateral acceleration just as Disney attraction engineers do during the ride design process.*



11:30 am Participate in **Energy and Waves Physics Lab 301 Workshop** - *Put the physics of light and sound into focus for your students in grades 9-12. Discover the wide range of energy waves found in the Electromagnetic Spectrum and the practical uses of electromagnetic waves.*  
2:30 pm Enjoy the Park - **Disney Meal Voucher** Included for Dinner  
9:00 pm Attend **Fireworks Show** - Return to hotel

### **Day 5**

6:30 am **Deluxe Continental Breakfast** at Hotel  
7:00 am Motorcoach transfer to **Kennedy Space Center**  
Commence **Camp KSC: Mission Robotics 3 Day Program - Shared program (9:00 am)** *Build and program robots, implementing the LEGO® MINDSTORMS® NXT 2.0 education sets along with easy-to-use programming tools and advance sensors. The curriculum is designed to simulate Robotic Missions to the Moon and Mars. Student teams work on learning and developing their robots during the first two days of the program. During this process, they participate in multiple competitions leading up to the final competition on a mock lunar surface on the third day.*  
**Program Includes:**  
*Two-day admission to Kennedy Space Center Visitor Complex, Lunch with an Astronaut, Special Up-Close Tours, lunch daily and graduation ceremony with certificate.*  
4:00 pm Return to Hotel  
6:00 pm **Buffet Dinner at Hotel**

### **Day 6**

6:30 am **Deluxe Continental Breakfast** at Hotel  
7:00 am Motorcoach transfer to **Kennedy Space Center**  
Commence **Camp KSC: Mission Robotics 3 Day Program (9:00 am)**  
4:00 pm Return to Hotel  
6:00 pm **Buffet Dinner at Hotel**

### **Day 7**

6:30 am **Deluxe Continental Breakfast** at Hotel  
7:00 am Motorcoach transfer to **Kennedy Space Center**  
Commence **Camp KSC: Mission Robotics 3 Day Program (9:00 am)**  
4:00 pm Return to Hotel  
6:00 pm **Buffet Dinner at Hotel**

### **Day 8**

6:30 am **Deluxe Continental Breakfast** at Hotel  
7:15 am **Transfer to Universal Orlando Parks**  
8:00 am Participate in **Special FX Tour: Learn the Secrets of Movie Making at Universal Studios®**  
*Find out how the arts and sciences are used to create some of the most spectacular special effects in motion picture history - and what it took to re-create those effects in some of Universal Studios' most popular attractions. In this hands-on, interactive experience (3-hour program)*  
11:00 am **Free time to explore the Parks**  
2:00 pm Participate in the **Ride Design Workshop: Innovation in Motion** - *Participate in an in-depth discussion of ride design and the application of science and physics when building attractions at Universal Studios® and*



*Universal's Islands of Adventure®. Hear what engineers at Universal Orlando® use on a daily basis to design state-of-the-art attractions. at Universal Orlando Resort (1-hour program)*

3:00 pm **Free time to explore the Parks**  
6:00 pm Dinner at the **Hard Rock Café** – 6050 Universal Blvd, Orlando, FL 32819 (407) 351-7625  
7:45 pm **Transfer** back to hotel

### **Day 9**

8:30 am **Deluxe Continental Breakfast** at Hotel  
10:00 am Check-out of hotel - Motorcoach transfer to Airport  
**Depart on Flight to Washington DC**  
Arrival in **Washington DC** –Claim Baggage-Load Buses  
Transfer to Hotel to check-in - **SpringHill Suites Alexandria Old Town/Southwest**  
Transfer to **Hill Country Barbeque** for Dinner  
After Dinner, Board the bus for a **step on guided tour** of Lincoln Memorial ,World War II Memorial, Jefferson Memorial, Iwo Jima Memorial, Korean War Veterans Memorial  
9:00 pm Return to the hotel

### **Day 10**

**Breakfast** in the Hotel  
This afternoon we will explore the **Smithsonian Institution Museums**  
*(African American History and Culture Museum; African Art Museum; Air and Space Museum; American History Museum; American Indian Museum)*  
**Lunch on own** in one of the Museums  
Motorcoach Transfer to **Newseum** - Each of the seven levels in this magnificent building is packed with interactive exhibits that explore how news affects our shared experience of historic moments. With 15 theatres, 15 galleries and more than 25 exhibit spaces.  
Participate in **Newseum Workshops of 'Covering a Catastrophe' and 'Photo Ethics'**  
5:30 pm Dinner at **Buca di Beppo for a Family Style Italian Dinner**  
7:30 pm Return to the Hotel

### **Day 11**

**Breakfast** at the Hotel  
Motorcoach transfer to DC with a **Photo Stop at White House**  
Transfer to the **Goddard Space Flight Center for tour**  
**Participate in an Educational Workshop** - *ARISS* lets students worldwide experience the excitement of talking directly with crew members of the International Space Station, inspiring them to pursue interests in careers in science, technology, engineering and math, and engaging them with radio science technology through amateur radio.  
**Dinner and Show at Medieval Times**  
9:30 pm Return to the Hotel



## **Day 12**

**Breakfast** at the Hotel  
Check-out of Hotel  
Transfer to DC Airport  
Depart for San Francisco  
Afternoon arrival  
Check-in Hotel  
**Attend a San Francisco Giants Baseball Game (pending time of year)**  
**Meal Voucher** included for dinner

## **Day 13**

8:00 am **Breakfast** at Hotel  
9:15 am Transfer to **Alcatraz launch for boat ride & self guided tour**  
12:30pm Walk to Pier 39-Lunch on own  
2:00 pm Transfer to **Muir Woods**  
**Transfer to the Golden Gate Bridge**  
6:00 pm Dinner at **Hard Rock Cafe**  
After Dinner, Return to Hotel

## **Day 14**

7:00 am **Breakfast** at Hotel  
8:00 am Travel to San Jose, CA  
**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.  
**Dinner**  
**Check-in to San Jose Hotel**



## **Day 15**

**Breakfast at Hotel**

### **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.

**Dinner: Guest Speaker TBA**

## **Day 16**

7:00 am

**Breakfast at Hotel**

### **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.

**Dinner at Peggy Sue's**

## **Day 17**

7:00 am

**Breakfast at Hotel**

Checkout of hotel

### **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

### **Tour Stanford Industrial park (Tesla, SAP, VM Ware, Nest, and PARC)**

**Apple HQ** (*Not included – indoor tours of buildings*), **Apple Park, HP Garage**

**Downtown Palo Alto**



**Dinner** in Palo Alto  
Return to Hotel

**Day 18**

7:00 am **Breakfast** at Hotel  
8:00 am Check-out of Hotel  
8:30 am Transfer to **Yosemite National Parks**  
12:15pm Arrive in Yosemite – **Box Lunch Provided**  
**Take the Yosemite Tour:** Highlights include El Capitan, Bridalveil Fall, Half Dome, Yosemite Falls in Yosemite Valley, Tunnel View, and Glacier Point.  
Check-in to accommodations – Evergreen Lodge or comparable,  
**Dinner** at the Hotel

**Day 19**

7:00 am **Breakfast** at Hotel  
8:00 am Check-out of Hotel  
8:30 am Transfer to **Los Angeles**  
1:30 pm Arrival into Los Angeles  
**La Brea Tar Pits Museum**  
**Griffith Observatory**  
5:00 pm Transfer to **Gordon Biersch for dinner**  
7:30 pm Transfer to Hotel to check-in – **Four Points Culver City**

**Day 20**

7:00 am **Breakfast** at Hotel  
Free Time at **California Institute of Technology**  
**NASA Jet Propulsion Laboratory Tour**  
Transfer to Santa Monica Pier – Enjoy the Pacific Ocean Beach  
Dinner at **Bubba Gump's Restaurant**  
8:00 pm Return to hotel

**Day 21**

8:00 am **Breakfast** at Hotel  
Check-out of hotel  
9:00 am Transfer to **UCLA** for tour  
Lunch on own on campus  
Self-Guided Tour of the **California Science Center**  
Depart for LAX Airport  
Depart for home