



Our STEM Discovery tour to NASA's Johnson Space Center is the ultimate school trip for your students to explore possibilities in science, technology engineering, design, maths and physics.

Our Texas Space STEM Discovery tour is a week-long program allowing students to work together in conquering space and engineering objectives. Texas Space STEM is a challenging 5-day program promoting teamwork, problem solving, communication and engineering solutions to space-related situations. It is designed to develop and improve critical thinking skills, fiscal responsibility, creativity and the drive to be successful.

Throughout their Martian mission, groups will be working within a NASA budget, knowing that funds or supplies for your projects may be decreased at any time due to budget cuts, safety regulations, or any other experience representative of the real NASA world.

Sample programming includes 2-stage Rocket building and launch, cryogenics and thermal heat shield testing, Martian habitat building and presentation, working in weightlessness with basic astronaut scuba dive training, VEX robotics and end effector challenge, Q&A sessions with NASA engineers and astronauts, behind the scenes tours of NASA's space vehicle mock up facility and Apollo Lunar landings Mission Control room.

Pupils will learn what's required to land a rover on the surface of Mars, how to maintain and sustain a habitat on Mars, how to launch a rocket into orbit and then discover what it takes to return it safely back to Earth.

## CURRICULUM LINKS

A unique cross-curricular experience for students of Science, Technology, Engineering and Maths. This exclusive school group tour offers student hands-on, engineering-based activities and data collection technology integration for real-world analysis.

### KS3

- Earth and the atmosphere
- Motions and forces
- Physics in outer space

### GCSE

- Earth and atmospheric science
- Forces and motion
- Ecosystems

### A LEVEL

- Mechanics
- Particle theory
- Ecosystems and biodiversity



# SUGGESTED ITINERARY

This unique itinerary includes 7 hours of activities, simulations and workshops each day, as well as a programme of evening entertainment. Breakfast is served daily at your hotel; lunch is included at NASA and evening meals are included at a range of nearby restaurants.

<b>Day 1</b>	<b>Morning</b>	<b>Afternoon</b>	<b>Evening</b>
	Flight to Houston	Meet coach and transfer to hotel	Optional evening meal at local restaurant
<b>Day 2</b>	<b>Morning</b>	<b>Afternoon</b>	<b>Evening</b>
	Welcome talk, tour of Rocket Park and NASA vehicle mock up facility. Rocket overview. Lunch at NASA	NASA Programming - Rocket construction, Thermal Tile and cryogenics challenge	Pizza Night at Hotel
<b>Day 3</b>	<b>Morning</b>	<b>Afternoon</b>	<b>Evening</b>
	Rocket launch, tour of Mission Control Centre and Mars habitat proposals. Lunch at NASA	NASA Programming - Mars habitat challenge and presentations	Dinner and Ten Pin Bowling at Main Event Entertainment Center
<b>Day 4</b>	<b>Morning</b>	<b>Afternoon</b>	<b>Evening</b>
	Q&A session with a NASA engineer. Thermal Tile and Cryogenic testing. Lunch at NASA	Scuba Dive and Water Robotics	Transfer to Kemah Boardwalk for evening meal at Bubba Gump's
<b>Day 5</b>	<b>Morning</b>	<b>Afternoon</b>	<b>Evening</b>
	Guided tour of the Starship Gallery. Vex Robotics. Coding presentation Lunch at NASA	Vex Robotics Coding and End Effector Challenge	Evening meal at Chuy's Mexican Restaurant
<b>Day 6</b>	<b>Morning</b>	<b>Afternoon</b>	<b>Evening</b>
	Independence Plaza and Falcon 9 Tour: NASA Astronaut Q&A sessions – graduation and certificates.	Meet coach and transfer to airport	Flight to UK
<b>Day 7</b>	<b>Morning</b>	<b>Afternoon</b>	<b>Evening</b>
	Arrive back in the UK	Return to school	

## EDUCATIONAL VISIT OPTIONS

- Armand Bayou Nature Center – Reptile Master Class
- Baybrook Mall Shopping trip
- Guided coach tour of Houston

# SAMPLE ACCOMMODATION

This exclusive Texas STEM Discovery tour includes nearby hotel accommodation at one of the following.

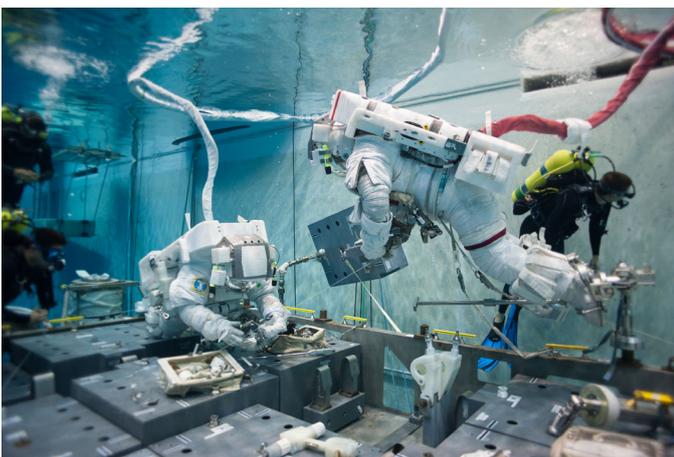


## SPRINGHILL SUITES, HOUSTON NASA / WEBSTER

Just 3-miles from the Johnson Space Center, the Springhill Suites hotel provides easy access to several attractions nearby. All rooms contain two queen beds plus a pull-out sofa sleeper. Students will sleep quad occupancy; staff will sleep double occupancy. On-site facilities include free high-speed internet access, cable television, hair dryers, in-room coffee maker, mini-fridges and microwaves, business center, guest laundry, small outdoor pool, convenience store and meeting rooms.

## COURTYARD BY MARRIOTT

This lovely hotel is located directly across the street from the Space Center allowing for participants to walk (approximately 5 minutes) to their daily sessions. On-site facilities include complimentary high-speed Wi-Fi access, an in-house Bistro & Bar, a sparkling outdoor pool, 24-hour fitness center and convenience store. Students will sleep quad occupancy in rooms with 2 queen beds; staff will sleep double occupancy.



## BEYOND ORDINARY - THE VISIONS DIFFERENCE

Visions in Education offer fully immersive, hands-on, educational trips of a lifetime. We support our teachers from planning the perfect trip, right through to hands-on support on the ground. Our excellent portfolio of destinations has been chosen to provide the best experience for all our travelling students.



01444 810 399



[info@visionsineducation.co.uk](mailto:info@visionsineducation.co.uk)



[visionsineducation.co.uk](http://visionsineducation.co.uk)



Visions Holiday Group Limited Registered No. 4499296.  
Registered office as above. VAT No. 784 3347 05