



Tour:

NYC GAMER & TECH

Destination:

Manhattan, New York

Itinerary:

6-days / 5-nights

NYC GAMER & TECH					
Day		Morning	Afternoon	Evening	
1	Sun	Travel to New York & transfer to Hotel; Hotel Check-In + Welcome, Safety & Orientation		Welcome Dinner	Times Square Walk & Group Photo
2	Mon	I-Fly Physics Master Class & 2-Flights with an Instructor		Local Dinner	Broadway Show
3	Tues	Master Class: Intro to Game Design	Master Class: Unreal Creations - Unreal Engine <u>OR</u> The Battle of Fluid Dynamics	Liberty Science Center & Life Cycles of the Stars Planetarium Presentation	
4	Wed	Master Class: Advanced 3D Modeling with Autodesk Maya <u>OR</u> Coming in Hot! Thermodynamics	Master Class: Coding Virtual Rovers <u>OR</u> Coding Sphero: Navigation	Local Dinner	The Empire State Building
5	Thur	The Metropolitan Museum of Art	Statue of Liberty & Ellis Island Museum with Audio Guides		Farewell Dinner
6	Fri	Depart NYC for Home			



As with all sample itineraries, please be aware that this is an “example” of a schedule and that the activities and hotels shown may be variable dependent upon dates, weather, special requests, and other factors. Itineraries will be confirmed prior to travel.



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New York City... Immerse yourself in New York City for five minutes and you'll see why it's like no other place on earth. It's why countless people have pinned their dreams here, thrown caution to the wind and shown up on its doorstep. And it's why visitors keep streaming in from all corners of the globe, discovering fabulous opportunities and innovation along the way. New York is a city filled with science, history, arts and culture around every corner. The buildings are soaring, crowds are boisterous and diverse, there's zillions of restaurants and shops that cater to every conceivable taste, museums and performance venues offer everything from masterworks to avant-garde creations. The city is bubbling over with energy and the result is a beautiful, electric and very fun New York City!



Did you know?

- ✓ The term “Big Apple” originally referred to horse racing. The city got its most famous nickname from a local newspaper’s horse racing column in the 1920s. Prior to the city’s adoption of the nickname, the phrase “Big Apple” was used to describe a big money prize at horse races held around the city.
- ✓ New Yorkers speak approximately 800 languages. Over 37 percent of New Yorkers were born in another country, so it’s unsurprising that the city’s residents speak a wide range of languages—but by any account, 800 is impressive. 4 in 10 households speak a language other than English.
- ✓ Most of us associate cowboys with the Wild West—not the West Side of Manhattan. But from 1850 to 1941, New York’s 10th Avenue had its own special team of cowboys. Responsible for wrangling people rather than cows, the West Side Cowboys would ride on horseback ahead of the freight trains that ran down the middle of the street, warning people to get out of the way.
- ✓ NYC’s population is the highest of any American city and a little over 8 million people live in the City. It means 1 in every 38 people in the United States call the city home. With over 27,000 people per square mile, it’s not just the densest major city, it also accounts for more than 40 percent of New York State’s entire population.
- ✓ The Bronx takes its name from its first European settler. Jonas Bronck, who moved to America from Sweden in 1639, was the first European to settle in the Bronx. His farm, covering about 500 acres, was referred to as “Bronck’s Land,” and the river was called “Bronck’s River.” Over the years, people started calling the whole area the “Bronx”.



- ✓ France gifted the Statue of Liberty to the United States in 1886 for its centennial celebration. The statue was shipped as 350 pieces in 214 crates and took 4 months to assemble at its current home on Ellis Island.
- ✓ New York City's Federal Reserve Bank has the largest gold storage in the world. The vault is 80 feet below street level and contains \$90 billion in gold.
- ✓ The first pizzeria in the United States opened in NYC in 1895. Since the 1960s, the price of a slice of pizza has been roughly the same price as a subway ride, generating the idea of "Pizza Principle" among economists.
- ✓ Times Square is named after the New York Times. It was originally called Longacre Square until the Times moved there in 1904.
- ✓ New York City became the first capital of the United States in 1789.

Day 1 – Welcome to New York City!

Meals en route on own; dinner included

Travel to NYC, transfer to your hotel, get unpacked, and get ready for a week of brilliance! Once settled in, we'll have our **Welcome, Safety & Orientation** Meeting and then get ready to explore the city and have fun.

Your hotel will be allocated upon booking. Dependent upon hotel options, breakfasts will generally be taken at your hotel, lunches are on your own so we can stop at a variety of places and enjoy different types of food, and dinners are at various restaurants in the NYC area. Hotel selections will feature two queen/double beds.



First stop – we'll get to understand the history of the city with Rise NYC!

Rise NY - RiseNY is a three-part journey that lifts and connects you to New York City's most famous sites and moments. Start with a captivating film by award-winning documentarian Ric Burns, explore museum-style galleries that transport you through the city's expansive pop-culture evolution. Then, fly over the iconic skyline on a soaring ride that suspends you 30 feet in the air. Get ready to fall in love with New York! RiseNY is part ride, part museum, and all New York.

This evening, after dinner in Manhattan, we'll trek through **Times Square** to soak up the culture. We'll meet for a photo op and enjoy the night!

Times Square Exploration – Times Square is a major commercial intersection, tourist destination, entertainment center and neighborhood in the Midtown Manhattan section of NYC at the junction of Broadway and 7th Avenue.



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Brightly lit by numerous billboards and advertisements, it stretches from West 42nd to West 47th Streets, and is sometimes referred to as “the Crossroads of the World” or “the Center of the Universe”. It is one of the world's busiest pedestrian areas, the hub of the Broadway Theater District, and a major center of the world's entertainment industry drawing an estimated 50 million visitors annually.



Day 2 – The Physics of Flight!

Breakfast & dinner included; lunch on own

After breakfast at our hotel, we'll head to Queens for a bit of flying!

I-Fly Indoor Skydiving & Physics Master Class - The STEM Master Class uses iFLY's unique vertical wind tunnel facility to make STEM exciting. Curriculum has been designed by professionals and includes an interactive presentation based on engineering and physics, a lab activity including parachute investigation, and full training for indoor skydiving by IBA certified flight instructors. Each student will fly one-on-one with an instructor for 1 minute in the tunnel per flight. Our schools love this activity!



Next, we're off to visit the incredible Intrepid with a private tour:

Intrepid Sea, Air & Space Museum - The Intrepid Sea, Air & Space Museum is a unique journey through all things military and maritime, with spectacular interactive exhibits. Located at Pier 86, the complex boasts authentically restored vessels, the most impressive being the World War II aircraft carrier the USS Intrepid and the submarine USS Growler. You'll also spy a British Airways Concorde, as well as Sikorsky, Skyhawk, and Vietnam-era Iroquois Huey helicopters. As for space memorabilia, the Space Shuttle Pavilion showcases the Enterprise, the first space shuttle. You can also visit a replica of an Aurora capsule and try out the virtual flight zone, which simulates the exhilaration of flying in a supersonic jet. While here, students will participate in a specialized tour.



✚ **Aviation Physics Master Tour** – This tour explores the aircraft carrier *Intrepid* and examines the machinery that makes flight at sea possible. In hands-on activities, students work in groups to demonstrate the physics of flight and how those forces interact with one another.

After our thrilling day, we'll zip back to the hotel for a quick refresh and then it's off to an early dinner and a Broadway Show!



Broadway Show – There's nothing quite like seeing a show on Broadway! Watch magic come alive with incredible performers, sets and scenes. Imagination turns into reality when you sit back and take it all in. We'll give you show possibilities and you pick the performance. Seating is based on student ticketing which is usually balcony level. We use a show budget which will have several options to choose from. If you desire a specific show and/or specific seats, simply let us know and we will determine applicable upgrade fees.

Days 3 & 4 – Start your scientific adventure!

Breakfast, sandwich lunch & dinner included

After breakfast at our hotel, we'll head to the Metro station, transferring to lower Manhattan and onto the New Jersey PATH system to take us to the Liberty Science Center.



The Liberty Science Center – At LSC, your students will be inspired to learn about the power, promise, and the pure fun of science and technology. LSC's hands-on extended laboratory programming offers high-quality, interdisciplinary project-based learning that combines critical thinking, collaboration, and problem-solving skills using real world examples to help support students in making the connection to learning. Students will

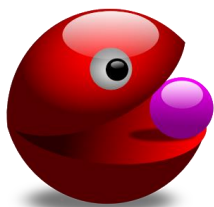


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strengthen the tools and skills necessary for scientific study into math, science and engineering connections as during STEM facilitated classroom discussions and experiments.

Your programs at the Liberty Science Center will include Master Classes plus entry into the Planetarium. You will have a choice of 5 Master Class sessions over 2 days, selected in advance of travel and dependent upon availability. Current choices include:



Intro to Game Design - Design custom characters with animations and behaviors by completing a crash course in Stencyl. This intuitive toolset is limited only by your creativity. This platform sets a foundation of computational thinking—an essential skill in today's tech-driven world.

Unreal Creations! Designing a Game with Unreal Engine - Level up your skills in this game design and programming primer course using industry-level tools. Take the first step into professional-level game design as you learn how to set up your first project in Unreal Engine and learn the basics of coding in C++. Some programming experience is recommended for this class.

Flow Wars: The Battle of Fluid Dynamics - Master the art of design optimization and take a macro look at molecular structures. Your team is on the hook to build hydrodynamic structures, communicate your technical process, and prove why understanding molecular design is vital for the functioning of macroscopic materials.

Advanced 3D Modeling with Autodesk Maya - In this program exploring advanced 3D modeling, students will learn the techniques and methods used professionally to create 3D models and meshes. Students will leave with access to a digital model that they have created (requires access to a Google Drive account or similar file-storage service).

Coming in Hot: Thermodynamics - Master the laws of thermodynamics through hands-on design work. In this program, you have been hired by GrubClub to craft a new low-cost delivery box that can handle scorching heat and blistering cold at the same time. Learn about calorimetry and insulation as you build a prototype to face this challenge.

Coding Virtual Rovers - Using a user-friendly, web-based computer science coding program, create a code to navigate a virtual rover through a maze. Your challenge is to try to make your code as efficient as it is effective.

Coding Sphero: Navigation - Congratulations! You have been hired by a cutting-edge company developing obstacle detection using the sphero bolt robot. In this program, your students will read and modify code in JavaScript to enhance their spheros' movement and understand the job of software engineering.

Intro to 3D Design with Tinkercad - Engage in the digital creation of 3D models and learn how to create intricate pieces designed for 3D printing using Autodesk Tinkercad.

Design Thinking with Tinkercad - Engage in the online digital creation of 3D models and learn how to create pieces designed for a community with needs. Use Monoprice Mini Select printers to print a prototype of your model that's yours to keep. Choose from three intriguing projects, each packed with excitement and innovation.

- Project 1: Craft a Better Spoon for Toddlers - Design a toddler-friendly utensil that makes mealtime enjoyable, safe, and engaging.
- Project 2: Design a Medical Container or Eating Device for Parkinson's Patients - Enhance their independence, minimize spills, and ensure a comfortable dining experience.



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- Project 3: Innovate a Solution for a Flood - Confront the critical challenge of designing a flood solution that mitigates the impact of floods and safeguards communities.

Colonizing Mars - Can humans overcome Mars' harsh environment and live there one day? Design a habitat for life on Mars based on a topographic map that resembles an actual Martian location. Modify the terrain as needed, build your 3D model of your Martian home and share your methods.

Plus – all groups will have a chance to visit the Planetarium and participate in a show.

Jennifer Chalsty Planetarium and Giant Dome Theater – This planetarium is the largest in the Western Hemisphere. The 89-foot dome, coupled with the all-dome video and astronomical object database, provides an immersive environment in which to explore the Earth and Space Systems Performance Expectations. View astronomical objects and celestial phenomena from the surface of Earth, and then travel into space to truly understand these difficult concepts by flying up to, around, and through the objects.

Life Cycles of the Stars Master Class - Explore observations of the sun, planets, and stars to discover the objects in our amazing sky. Develop a conceptual model of the formation of the universe and the life cycle of a star. Construction of this model will use evidence from stellar light spectra, the motion of distant galaxies, the composition of matter in the universe, nuclear fusion, and the production of elements in stars.

On the evening of Day 4, after dinner we'll also have a chance to check-out the iconic engineering at the Empire State Building!



The Empire State Building - New York's famous Empire State Building, soars more than a quarter of a mile above the heart of Manhattan. Located on the 86th floor, 1,050 feet (320 meters) above the city's bustling streets, the Observatory offers an immersive experience with panoramic views from within a glass enclosed pavilion and from the surrounding open-air promenade. The Observation Deck wraps around the building's spire, providing 360-degree views of New York and beyond. From up here you'll get one-of-a-kind views of Central Park, The Hudson River and East River, The Brooklyn Bridge, Times Square, The Statue of Liberty, and much more.

Day 5 – Hello New York! A celebration of history & diversity

Breakfast & dinner included; lunch on own

After breakfast at our hotel, today we'll have some time to get to know Manhattan. First stop – the fantastic Metropolitan Museum of Art; later – Liberty & Ellis Islands!



The Metropolitan Museum of Art – The Met presents over 5,000 years of art from around the world for everyone to experience and enjoy. It is the largest art museum in the United States and its permanent collection contains



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over two million works, divided among 17 curatorial departments. Since it was founded in 1870, The Met has always aspired to be more than a treasury of rare and beautiful objects. Every day, art comes alive in the Museum's galleries and through its exhibitions and events, revealing both new ideas and unexpected connections across time and across cultures.

The museum's permanent collection consists of works of art from classical antiquity and ancient Egypt, paintings, and sculptures from nearly all the European masters, and an extensive collection of American and modern art. The Met maintains extensive holdings of African, Asian, Oceanian, Byzantine, and Islamic art. The museum is home to encyclopedic collections of musical instruments, costumes, and accessories, as well as antique weapons and armor from around the world. Several notable interiors, ranging from 1st-century Rome through modern American design, are installed in its galleries.

After visiting the Met, we're off to explore Liberty Island!



Statue of Liberty & Liberty Island exploration, plus the Ellis Island Immigration Museum – Departing from Battery Park, get a chance to see the Statue of Liberty National Monument and the Ellis Island National Immigration Museum in this fascinating journey. Enjoy an audio tour and get an in-depth look at America's enduring symbol of freedom: **The Statue of Liberty**. Continue to Ellis Island for access to the **Ellis Island Immigration Museum** and free time to explore. Be sure to wear comfortable clothing and shoes!

After our wonderful day, we'll have our farewell dinner this evening with free time to enjoy any last sites!

Day 6 – Goodbye NYC!

Breakfast included; all other meals on own

After our incredible week, we'll start to say 'goodbye' to New York as we prepare to travel home. If you have a later flight and we can assist you with booking extra activities, please call upon us!

Goodbye NYC... Until we meet again!



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Minimum Booking Numbers:

20 students

What's Included:

Roundtrip flights or motorcoach transfers to New York City
5-nights' accommodation in Manhattan
Airport transfers on arrival and departure
5-Day NYC Metro Card for daily transportation
2-Day NJ PATH Card for transport to Liberty Science Center
Breakfasts & dinners daily starting with dinner on Day 1 and ending with breakfast on Day 5
2 sandwich lunches on Days 3 & 4 (at LSC)
5 Master Class programs at Liberty Science Center
Life Cycles of the Stars Master Class at the Chalsty Planetarium
Evening Times Square Exploration & Group Photograph
Rise NY Experience
I-Fly Physics master Class with 2 Instructor-Led Jumps
Intrepid Sea, Air & Space Museum with private Aviation Physics Tour
Empire State Building excursion
Broadway Show
Statue of Liberty & Ellis Island Immigration Museum with Audio Guides
The Metropolitan Museum of Art
Personal Tour Director
24-hour emergency cover

What's Not Included:

Lunches, snacks & extra beverages – Budget \$20 - \$25 per day
Fully comprehensive insurance (**mandatory**)
Transfers to/from home airport
Cost of personal passports, visas or visa waiver fees
Cost of inoculations or medication required for travel
Baggage costs, pay directly to airline if required
Baggage handling - everyone should be able to pull / load their own bag
Hotel incidental deposits & bills – mini-bar, movies, etc.
Sightseeing / Entertainment options not shown in Itinerary
Gratuities – drivers, hotel services, area guides, tour director
Credit card fees if individuals wish to pay via credit card instead of ACH (online check)

As always, our staff are always available to you to answer any questions you may have regarding programming. If we may serve you in any way, please do not hesitate to contact us.



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