



THE FLYING CLASSROOM

Engage students in STEM+ by bringing real world, relevant and global expeditions to your classroom.

30 EXPEDITION LESSONS

3D PRINTING WITH NIKE TECHNOLOGY



BEAVERTON, OREGON

As technology advances items we use each day are enhanced by engineers and scientists. Venture to Nike with Captain Irving to learn how new technology has advanced the accessibility and comfort of shoes and athletic devices.

A TIGER VISITS THE DOCTOR



OMAHA, NEBRASKA

How does a 300 lb. tiger go to the doctor? Explore veterinarian science and see what it is like to perform a physical checkup on a 300 lb. animal!

AEROBATIC FLIGHT SCHOOL



DAYTON, OHIO

Twirls, dives and death defying stunts define the life of an aerobatic pilot. Fly along with Captain Barrington Irving as he defies gravity through aerodynamic principles.

ANIMAL BEHAVIORS



OMAHA, NEBRASKA

Join Captain Irving as he Investigates animal behaviors and characteristics with a group of scientists at the Omaha Zoo.

ANIMAL CONSERVATION



SINGAPORE

The Singapore Zoo is working to conserve the endangered red panda. Learn about the animal characteristics and habits that the zoo experts took into consideration to create a viable habitat for the red panda.

AQUAPONICS



CHATTANOOGA, TENNESSEE

Join Captain Irving as he visits a group of students who have created an aquaponics system that aims to feed the hungry and create sustainable agriculture.

BUILD A VIDEO GAME



ORLANDO, FLORIDA

Technology and coding advancements develop daily, but exactly how is it used in gaming? Investigate how STEM principles are used to design and build video games.

BUILT BY KIDS



MIAMI, FLORIDA

Have you ever dreamed of building a plane or car? In this expedition you will learn about all of the amazing innovations that kids build in Captain Irving's Build and Soar Program. Everyone can dream, create and build on this expedition!

CLIMATE CHANGE AND GLACIERS



ANCHORAGE, ALASKA

Venture to a glacier with Captain Irving and a glacial geochemist to learn about tiny organisms (microbes) hiding in glaciers and the impact of global warming on glacial ice.



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CORAL REEF RESTORATION



BALI, INDONESIA

Dynamite fishing is devastating the coral reefs in Bali. Scientists, artists, engineers and welders have united their STEM expertise to create a solution to regrow their reef and preserve the ecosystem.

DEADLY LIFE SAVERS – SEA SNAKES



KOROR, PALAU

One of the deadliest animals on earth is now the biggest life saver thanks to the venom harvested from the sea snake. Take a virtual trip to Palau with Captain Irving to catch a sea snake and study their ecosystem.

ECOSYSTEM FOOD WEB: LANCE HEAD VIPER SNAKE IN THE AMAZON



PUERTO MALDONADO, PERU

Captain Irving dares to journey into the Amazon to investigate the food web, the key component to the ecosystem from the master hunter- the Lance Head Viper Snake.

ECOSYSTEMS WITHIN THE AMAZON



PUERTO MALDONADO, PERU

Learn about the different layers within the Amazon Rainforest and how they support each other.

ERUPT! VOLCANIC SCIENCE



HILO, HAWAII

Captain Irving hovers 20 feet above active volcanoes on the Big Island of Hawaii to observe lava flow and volcanic processes.

FOOD WASTE



SAN DIEGO, CALIFORNIA

Discover how much food our population creates and the environmental harm it creates to the environment. Watch as Capt. Irving spends 48 hours eating out of the dumpsters!

GLACIERS: THE ALASKAN CLIMATE



ANCHORAGE, ALASKA

Venture to the “Land of the Midnight Sun” to discover the unique Alaskan climate filled with glaciers, snow, ice and an ever changing environment.

HALO JUMP



MEMPHIS, TENNESSEE

Watch Captain Irving jump out of a plane at 30,000 feet, free falling at 250 mph and battling extreme temperatures in this investigation of the atmosphere and gravity.

HIGH ALTITUDE BALLOON LAUNCH



OMAHA, NEBRASKA

The Flying Classroom heads to space by launching a weather balloon to over 100,000 ft. Gain a real world glimpse of the earth’s ozone layers and weather as we venture into space!



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HONEY BEES: NEED FOR POLLINATION



SANTA ROSA BEACH, FLORIDA

Honey, almonds, chocolate and coffee are just a few of the everyday items that need pollinated by bees, but the global population is eradicating their natural habitat. Captain Irving becomes a bee keeper for the day to learn about the life cycle of the honey bee and their importance to our food supply.

INVASIVE SPECIES VS. THE AUSTRALIAN ECOSYSTEM



DARWIN, AUSTRALIA

Captain Irving visits the “Land Down Under” to learn about the poisonous cane toad, its devastating effect on the ecosystem and the research behind stopping the cane toad from ruining the habitat that it lives in.

JELLYFISH LAKE



KOROR, PALAU

Swimming with jellyfish is off limits since their tentacles sting and even cause human death! Captain Irving braves swimming with millions of jellyfish in Koror, Palau. This expedition is all about animal adaptations to their environment.

MOLECULAR SCANNER



TEL AVIV, ISRAEL

Do you ever wonder what the food you are eating is made from, or what is in the vitamin you are swallowing? In Tel Aviv Captain Irving learns how the SCIO scanner can breakdown the molecular composition of any food item, medicine or plant.

REGENERATIVE MEDICINE



RALEIGH, NORTH CAROLINA

If salamanders and zebra fish can regenerate their body parts, why can't humans? Visit Wake Forest University and Dr. Atala with Captain Irving to understand biomedical engineering and research regenerative medicine as a way to grow organs without the need for a donor.

SUSTAINABLE CITIES



SHANGHAI, CHINA

By 2050 the number of people living in cities will have nearly doubled, from 3.6 billion to more than 6 billion. How can building a sustainable city solve this?

THE BIONIC CHEF



BOZEMAN, MONTANA

Meet a chef with a bionic arm and learn about the advancement of prosthetics and how the human nervous system can control robotic limbs.

THE CAMERA PILL



TEL AVIV, ISRAEL

Take a virtual tour of Captain Irving's digestive system! Investigate the wonders of medical science and how a camera pill can identify potential life threatening problems hiding in the digestive tract.

THE POWER OF FLIGHT



DALLAS, TEXAS

How do airplanes fly? Fly with Captain Irving in the MU-2 Turbo Prop to learn how an airplane flies and about aerodynamic principles.



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URBAN FARMING



BOSTON, MASSACHUSETTS
What does a carrot from the 1960's taste like? Explore how a food computer can replicate crops from any point in history via technology, science and engineering.

WATER HYDRODYNAMICS



SYDNEY, AUSTRALIA
Nic Douglass (The Sailing Girl) and Captain Irving sail in Sydney to investigate buoyancy and water hydrodynamics. Will Captain Irving and Nic Douglass sink or float?

WEATHER & FLIGHT PLANS



HOUSTON, TEXAS
Monsoons, snow storms, torrential rains and extreme heat are just some of the extreme weather that Captain Irving has encountered on his global adventures. Investigate how he navigates his journeys while considering earth's unpredictable weather.



MYSTERY EXPEDITION

BOULDER, COLORADO
Coding + Science Principles + Engineering Design lead to a unique innovation that is engaging kids across the nation to engage, explore and innovate in the tech world! Visit Sphero with Captain Irving and learn about the ingenious connect toys they have invented!

CONTACT US:



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