

Duration: October 09th – October 13th SPACE WEEK AT SIS@CIPUTRA

World Space Week (WSS) is an international celebration of science and technology, and their contribution to the betterment of the human condition. The United Nations General Assembly declared in 1999 that World Space Week will be held each year in October to commemorate two events:

- October 4, 1957: Launch of the first human-made Earth satellite, Sputnik
 1, thus opening the way for space exploration.
- October 10, 1967: The signing of the Treaty on Principles Governing the Activities of States in the Exploration and Peaceful Uses of Outer Space, including the Moon and Other Celestial Bodies.

In this Term, together with other SIS campuses across the country, SIS@Ciputra organized our Space Week in the last week of term, to celebrate this event as one of our initiatives to promote engaging STEM topics to the students and increase the students' interest in STEM.





Main activities during the Space Week



EXHIBITION (1)

One of the activities that our students loved most during Space Week was learning and interacting with the iconic NASA Robotics missions in an immersive way; using Augmented Reality (AR) techniques to project 3D renditions of the mission spacecraft into real-world surroundings. Our students had a great time exploring International Space Station and different models of Rovers and Spaceships







Science • Technology • Engineering • Math

NEWSLETTER





























EXHIBITION (2)

Experience a launch simulation: building and launching a rocket at Kennedy Space Center in Augmented Reality. Our students had an educational experience that runs through the prelaunch procedures and building of Falcon 9, dragging it out to Launch Complex 40, learning about the hardware and launching it on a mission to the International Space Station











EXHIBITION (3)

Discover the solar system with the 3D Hologram Pyramids: The 9 simple hologram pyramids were prepared to let our students explore the Solar System. When playing the holographic animation videos, students also listened to an introduction about each planet with facts, and interesting information about space.













EXHIBITION (4)

Scientific Posters Recycled spaceships Space Guided Tours









NASA JUNIOR PILOT

NASA's Junior Pilot Program: X-59, is a series of fun and engaging activities for grades K-5. This program was prepared by NASA to show young children all about flight and the X-59 airplane. Have a look at the pictures below and see how our students successfully completed all the missions in the series and got certificates!























STRAW ROCKET

Building straw rockets is an excellent opportunity for students to practice the engineering design process. This activity provides students with a template that creates a rocket which can be launched from a straw. They are then challenged to modify the design to see how the changes impact the rocket performance. Length, fin shape or angle can be changed–one variable at a time–to see how the rocket launch performs and compares to the control design.





3D DESIGN CHALLENGE

3D Modeling and Creative Design are among our focuses in the STEM programme, with the purpose of developing our students' creative confidence and design thinking skills. Within a very short manner of time, and completing a challenging mission of building a spaceship, Grade 2 students did a great job with several innovative designs:





SOLAR POWERED MACHINES

Climate change and global warming urge scientists to take action and save our planet by reducing carbon emissions. The sun can provide free energy for all our needs; however, we need to convert it to a useful form. We were all surprised by the performance of SIS junior scientists and engineers who successfully built several solar powered machines (Solar Plane, Solar Car...) and tested these models under the sunlight.





ENGINEERING CHALLENGE

SIS young inventors develop electronics and engineering skills while encouraging creativity and problem-solving at the same time. At our campuses, there are various STEM resources that give our students the pure joy of invention. Working in a team during Space Week, they were requested to "Create a vehicle with a suspension system".





















CODEY ROCKY CHALLENGE

Codey Rocky is a coding buddy of SIS students. Through STEM lessons, we work together to build our students' interests in science, cultivate their skills through coding projects, enrich their vocabulary and enhance their analytical problem-solving skills. Let's see some pictures taken during Space Week when our students were trying to complete some coding challenges with Codey Rocky in a Space themed competition.





DRONE CHALLENGE

Throughout the journey of learning STEM at SIS, students are introduced to different types of educational robots. This time, during Space Week, drones were introduced to our students, helping them understand how coding can be used in the real world.





ASTRONAUT HELMET & SOLAR SYSTEM DRAWING

Prep students brought to Space Week their astronaut helmets and drawings of the solar system and impressed all teachers at school with their creativity and hard work. One day in the future, maybe one of them will wear a space suit and travel into space!















MESSAGES TO THE SPACE

NASA's Message in a Bottle campaign invites people around the world to send their messages to space. The messages will be etched onto microchips mounted on a spacecraft. Together, the messages will travel 1.8 billion miles on Europa Clipper's voyage to the Jupiter system. Europa Clipper is set to launch from NASA's Kennedy Space Center in October 2024, and by 2030, it will be in orbit around Jupiter. Over several years, it will conduct dozens of flybys of Jupiter's icy moon Europa, gathering detailed measurements to determine if the moon has conditions suitable for life. Take a look at some of the messages from SIS students which will be sent to space in this campaign.

2023/10/05	How is it up there? Is the upper air 20 Bood? I wish I can wist 7	Dear Aliens,
Dear, astronaut Hello my name is Lahee from Karea. I live in vietnam hana. I mant to ask you some question. I saw in a book that Scientist are discovering Mars. When things are ready are you gonno go to Mars? In the future I hope I could travel to out of earth like you. from Lahee	good? I wish I can visit Jupiter someday. Maybe visiting oppiter will be able in like 2135. The carth that I am living now, is getting sick. Climate change caused by humans is destroying our home planet and the animals. I don't think Jupiter has climate change. "Institute change is just how to as DISCUSTI NG-Anyonys, you still ofto visit visiter mean it an be a disaster machine it an buffs like cet phones and Disney land! I will tell you wist here."	I am a creeture from Earth celled Human. I am willing to explore a new planet and I choose Saturn? How are you in Seturn? How is Saturn? I hope you can be my companion in my Saturn explore journey. My purpose for visit Saturn is find some new rocks for my report. My workmates and I hope for the mission can be successfully complete so that we can win the award for the best astronauts ever! I know that with your help we can surely achives it. " Thank you, Bao Iram



(Jihyeon GLAW) ite into your heart

Dear Space Creatures,

Hi, I am a human from Earth. It is a wonderful and colorful planet in the solar system. Earth is full of beautiful countries, nature and technology. But the problem is, there is happening a lot of Global Issues which is mostly caused by humans. This might be strange to you but it is the purpose of you replying us back by telling about gour environment and animals living there. We just want to explore more about space to see if there are other living organisms out space than us.

This language might confuse you but try at least to reply 11.

We think that space is beautiful and amazing.

Please tell about your planet and features about you. We can also be space friends! We can communicate, meet each other, play together, introduce our planet and learn about space togethu! We all are hoping for you to reply. Bye! from Earth (NASA).







HOUR OF CODE

Coding is one of the skills that SIS wants to teach its students. During ICT lessons, the students accomplished their space missions online. The lower primary helped space cadets avoid aliens, collect crystals, and get their medicine kits. They even made the space cadets dance. On the other hand, upper primary had a chance to review their programming skills and apply the correct codes to make the planets revolve around the sun.

