Get **ENERGIZED** for a FIRST LEGO League competition!

After 3 long years, the Science Learning Center is once again hosting the Mililani District FIRST LEGO League Challenge Tournament at Mililani Middle School on Saturday, November 5th 2022 from 12:00 - 2:00PM.

In this year's FLL competition season, competitors learn about the different types of energy sources, storage, distribution methods, and ways in which energy is consumed. This culminates in the creation and presentation of an Innovation Project, where competitors identified and researched an energy problem in their communities, designed a new solution or improved an existing solution to their identified issue, and iterated on their solution through sharing it with others and collecting feedback.

Competitors also compete in Robot Design and the Robot Game, where they build and code a LEGO robot to maneuver across a tabletop game field to complete a series of energy-themed objectives in a limited time!

To learn more about FIRST LEGO League and other FIRST programs, visit [https://www.firstinspires.org/](https://www.firstinspires.org/).

Interested in the SUPERPOWERED℠ season? Check out the game animation below. Additional details about the season, can be found on FIRST's website: [https://www.firstinspires.org/robotics/fll/game-and-season](https://www.firstinspires.org/robotics/fll/game-and-season)
Saturday, November 26th also marks the first time in 3 years for the return of the Mililani High School FIRST Tech Challenge League Meet! This competition is also hosted by the Science Learning Center, in conjunction with MHS FIRST Robotics teams 7438, Hot Spot Robotics, and 17063, Hot Shot Robotics. At this tournament, students in FTC teams from across the state will engage in cooperation and competition using the robots that they have designed and built in the last 3 months in this season's game, POWERPLAY℠ presented by Raytheon Technologies.

Learn more about this year’s FTC season on the FIRST website: https://www.firstinspires.org/robotics/ftc/game-and-season.

To learn more about POWERPLAY℠, check out the game animation.

Interested in 3D Printing or need 3D printed parts?

Do you have any students that are interested in learning the basics of 3D printing? Are YOU interested in learning some 3D printing? Do you need some custom parts for your classroom?

We are looking to begin ramping up our 3D printing capabilities and are interested in offering a workshop series on the basics of 3D printing. Workshop sessions would be conducted once a week afterschool for approximately 4-6 weeks. This will cover the basics of 3D modeling with CAD software and printing the digital model on our 3D printer that participants may keep. Additionally, participants that complete this series may continue to utilize our LC’s 3D printers for future projects and to further develop their 3D printing knowledge/skills. No prior experience necessary! This will be geared towards complete beginners! Alternatively, we can help develop parts for lab equipment and/or display/demonstration models to enhance your classroom and lessons. Let us know if there is any interest so we can work out the details to provide this opportunity!
Our FIRST Robotics competed in the FIRST Tech Challenge Iolani League Meet on Saturday, October 29th. They put their robot and skills to the test to see where they stacked up against other teams across the state!

Our Science Club students held a booth at the National Chemistry Week celebration in Hawaii on Saturday, October 29th. They taught the public about the wonderful chemistry behind fibers and even performed some hands-on demonstrations!

NSA employee and MHS Alumni, Dylan Tokita, visited and held a speaker session on Wednesday, October 12th, to inform our students about career pathways at the NSA and work study programs and internships available for our students to pursue.

He was accompanied by current MHS student, Daryn Miura, who is currently in the work study program at the NSA.

Researchers and science professionals from the Applied Superconductivity Educational Foundation visited MHS to hold a live speaker session on Tuesday, October 18th. They spoke upon various topics, with several hands-on demonstrations, to inform and teach our Learning Center students about the principles...
As per the last issue, the 2022 Igniting Inspiration STEM Camp kicked off on October 3rd, leading to a week full of fun, STEM learning camps for elementary and middle schoolers. Camps ranged from designing and building robots to learning introductory principles and skills in coding. Over 80 students enrolled and participated across the 4 camps, engaging in curriculum designed and taught entirely by learning center students from both FIRST Robotics and Science Club.

Our Learning Center students spent the week modeling and guiding attendees through a variety of challenging activities that introduced and built upon critical thinking and engineering design skills crucial for success in STEM.

It was a great privilege to work with and teach the next generation of STEM learners, as a means of giving back to the Mililani community. We hope to continue stem camp in perpetuity and offer more enriching STEM activities like STEM camp in the near future!