3D STEM NEWSLETTERMCSD

DECEMBER 2024

Sunshine State Scholar

Congratulations to Nathaniel Shugarman of CSHS!

Nathaniel has earned the distinction of being MCSD's representative in Orlando for the Sunshine State Scholar conference and awards. We are very proud of Nathaniel's achievements in math and physics, performance on PSATs and AP exams, and leadership in Mu Alpha Theta. Congratulations, Nathaniel!







The Ocean Guardian School District Rainwater Filtration Gardens are in the finalization stages for gardens at KWHS, POI, and SLS!

Community Partners Up and Coming

Everglades Literacy

Virtual Classroom Presentations for January. **Click for Flyer**

Reef Relief

Virtual Lesson Series and Annual Meeting Click for Flyer

Eco-Discovery Center

Jan.11.2025: Plant a Million Corals guest speaker Saturday, 1/11/25 at 10:30 am!

Art & Historical Society

Click HERE to see the four free workshops available in January 2025! Sharks4Kids

Webinar Series: Dive into the World of Sharks Mystery of the Megamouth Shark, great for grades 1-5. Janu 29,2025. Click HERE to register!



*Ho ho ho!

Jordan Ballester's class researched STEM careers and made "help wanted" posters for a gallery walk!

PKS 6th Grade Gallery Walk







SSE and vermiculture composting with wiggler worms

Mr. Sessler's K-5 STEM students learned about recycling and trash programs from the Monroe County Recycling and Outreach Coordinator.





Students built 3
vermiculture containers
that students will be able
to use with wiggler worms
to divert food items from
our landfills



KWHS Aerospace Engineering

The AE class used Aery-32 design software to design and build their own gliders, using balsa and basswood. The gliders were launched by rubber bands to test their designs.













KWHS - Biology

Ms. Wood's Biology Class made "ugly sweaters" to review concepts learned in Semester 1!



Contact Information:

Donna Tedesco

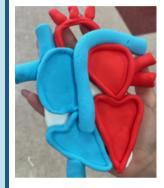
MCSD STEM Coordinator donna.tedesco@keysschools.com

Najae Gillete

Curriculum Intern najae.gillette@keysschools.com

KWHS Anatomy and Physiology

Ms. Fink's A&P class molded model hearts from clay, foam, and tubing to simulate blood flow!





KWHS Chemistry

Ms. Nelson's
Chemistry class
studied
precipitate
reactions and
made
ornaments
using Borax and
pipe cleaners









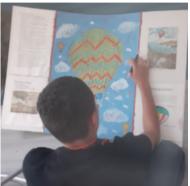




College of the Florida Academy







Mr Hughes and his
Aerospace Engineering
class are creating an
aerospace museum, in
which each exhibit
showcases an
innovation in aviation.

PKS Chemical Reactions

Ms. Curl's 8th grade science classes at PKS experimented with chemical reactions and to describe the Law of Conservation of Mass through investigative conversations.





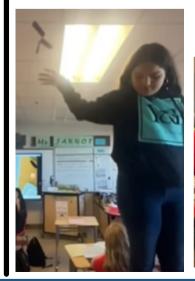
HOB - Pedro Lara's Class and STREAMS Class

Mr. Lara's 6th grade class worked in collaborative groups to build knowledge projects about extreme weather at unique stations around the room. The stations included reading, pictures, vocabulary, and a video.





Ms. Jarnot's STREAMS class practiced the scientific method with a "Helicopter Model Activity Lab."









TVM

Bobbie Burson's students at Treasure Village learned how to drive US Coast Guard boats and applied their First Aid and CPR skills after completing a mock "man overboard" drill.





MMHS Rob Driscoll

Mr. Driscoll's STEM classes built Rube Goldberg machines using VEX parts, transferred basil into pots from the hydroponic gardens, and enjoyed a snorkeling trip with MarineLab in Key Largo.









AVID AND STEM - KWHS

Mrs. Rech's AVID classes visited the STEM renewable energy, marine technology, and aquaculture labs, and the nursing program at the College of the Florida Keys







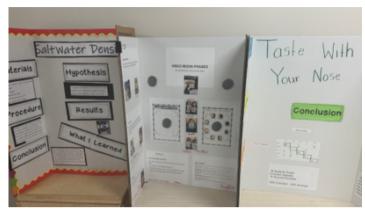




STEM FAIR









MMHS STEM fair





HOB STEAM Night













POI STEM FAIR WINNERS!





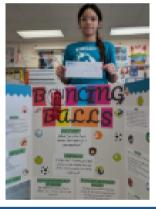
















CFK Students Pilot for a Day!

Catheryn Miller and Jonathan Oggeri spent the day with NAS KW experiencing a day in the life of a Navy pilot as part of NAS KW's Pilot-for-a-Day Program!











Reef Relief, FKAA, Key West Botanical Gardens, and Key West Aquarium Community Partners participating with exhibits at POI STEM fair!



CONGRATULATIONS! SUGARLOAF SCHOOL

FOR COMPLETING THEIR 5-YEAR OCEAN GUARDIAN SCHOOL PROJECT!

Students in Marine Science participated in the 6Rs recycling pathway. During their 5 years, students spent over 3,000 hours removing marine debris, installing 60+ recycling bins, and distributed over 1,350 reusable bags!



EEF KELIEF

2024-2025 Virtual Lesson Series Schedule

All lesson times are in EST

Introduction to Coral Reef 9/18/24 2:30pm and 9/30/24 10:30am

Mysteries of the Deep Sea 10/7/24 10:30am and 10/16/24 2:30pm

Water Quality 11/7/24 2:30pm and 11/19/24 10:30am

Biology and Conservation of Seabirds 12/10/24 10:30am and 12/19/24 2:30pm

Shark Biology and Conservation 1/8/25 2:30pm and 1/21/25 10:30am

Fish Anatomy and Identification

Marine Megafauna 2/19/25 2:30pm and 2/25/25 10:30am

Marine Invertebrates 3/3/25 10:30am and 3/11/25 2:30pm

Biology and Conservation of Sea Turtles 3/26/25 2:30pm and 3/31/25 10:30am

> Introduction to Oceanography 4/8/25 10:30am and 4/17/25 2:30pm

Marine Ecosystems of the Florida Keys 5/7/25 2:30pm and 5/15/25 10:30am

2/3/25 10:30am and 2/11/25 2:30pm



2024-2025 School Year Everglades Literac Virtual Classroom Presentation

Join us for FREE classroom presentations about various Everglades topics Choose your topic and click "Register Here" for the live webi

Kindergarten - 2nd Grade Presentations

Thursday, October 10, 2024 10:00 a.m. - 10:45 a.m.

· Exploring the Everglades Ecosystem - Register Here

Thursday, November 7, 2024 10:00 a.m. - 10:45 a.r. Everglades "Eye Spy" Adventure - Register Here

Thursday, January 9, 2025 10:00 a.m. - 10:45 a.n

Feathered Friends of the Everglades - Register Here

Thursday, February 20, 2025 10:00 a.m. - 10:45 a.

Amazing Animal Adaptations in the Everglades - Register H

Thursday, April 3, 2025 10:00 a.m. - 10:45 a.m. · Everglades Evidence: Animal Tracking and Scat - Register Here

3rd-5th Grade Presentations

Thursday, October 17, 2024 10:00 a.m. - 10:45 a.m. . Exploring the Everglades Ecosystem - Register Here

Thursday, November 21, 2024 10:00 a.m. - 10:45 a.m.

 Courageous Careers in the Everglades - Register Here Thursday, January 23, 2025 10:00 a.m. - 10:45 a.m.

Amazing Animal Adaptations in the Everglades - Register Here

Thursday, February 27, 2025 10:00 a.m. - 10:45 a.m.

Trailblazing Women of the Everglades - Register Here

Thursday, April 17, 2025 10:00 a.m. - 10:45 a.m.

· Hidden Heroes of the Everglades - Register Here

ore Information contact: Education@EveroladesFoundation.org

www.EvergladesLiteracy.org





& HISTORICAL SOCIETY™

EXHIBIT ON DISPLAY NOVEMBER 1 - JANUARY 26 BUMPUS GALLERY





