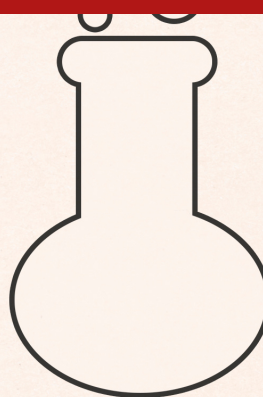
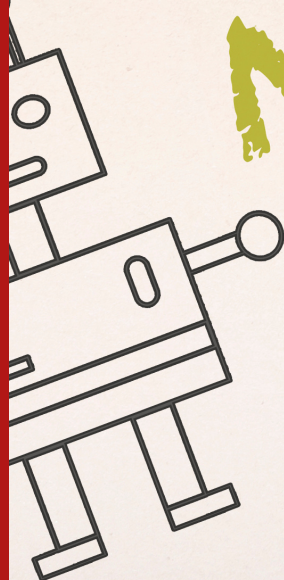


SCIENCE

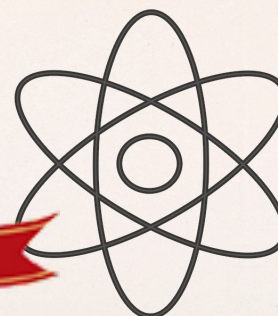
TECHNOLOGY

ENGINEERING

MATHEMATICS



To Excellence in the Monroe County Schools



MCSRD REGIONAL STEM FAIR

SCIENCE. TECHNOLOGY. ENGINEERING. MATHEMATICS

FEB. 11, 2023

STANLEY SWITLIK ELEMENTARY

MARATHON, FL 33050

2023 MCSD Regional STEM Fair

Senior Grand Winners			
1st	Mia Milchman	Rhizophora Mangle Growth in Sunscreen	CSHS
2nd	Nina Bowen	The Effect of Turbulence on Algal Growth	KWHS
3rd	Carly Lefelar	Filters & Water	KWHS
Team 1st	Sean Farrell, Ian Andersen, Andrew Kumar	Coral Reefs in Peril: Assessing Excess Nutrient Loads Within Florida Bay	CSHS

Junior Grand Winners			
1st	Parks Dunn	Microgravity vs Seed Germination	PKS
2nd	Taylor Thomason	Sorbent Oil Spills	SLS
3rd	Ahana Kunasekaran	Language in the Mind	MSC
Team 1st	Samara MacDonald & Carol Alvarez	Can't Flush This	SIGS



Category Winners for Junior Division

ANIM

1st- Eli Forman, Bird Seed Bistro, TVM

BMED

1st- Miriam McManus, You See Me, Now You Don't, SIGS

2nd- Aarna Kunasekaran & Dominika Wojciechowski, Earbuds vs Headphones, MSM

3rd- Isabella Rivera-Rodriguez, Bug Killer Evaluation of Efficiency, SIGS

EAEV

1st- Samara MacDonald & Carol Alvarez, Can't Flush This, SIGS

2nd- Alison Wheatley & Eleanor Rudolph, Effects of pH Levels on Solid Calcium Carbonate Weight, OSC

3rd- Alex Rudolph, Ocean Acidification Contributing to Weak Coral Skeleton, OSC

PHYS

1st- Alex Behler, Artemis SLS Vs. Falcon X: An Exploration of Rocket Thrust, SLS

2nd- Sofia Figueredo, Off to a Good Start: The Physics of the Dive, PKS

3rd- Gavin Matheis & Melanie Estevez, How does the Size and Aerodynamics of a Football Effect How Far the Football Can be Thrown, PKS

ENEV

1st- Troy Register, Styroponics, TVM

2nd- Hunter Smith, Solar Powered Golf Cart, TVM

BEHA

1st- Ahana Kunasekaran, Language in the Mind, MSM

2nd- Mallory Hughes, Mnemonics vs Visual, TVM

3rd- Nalani LaBeet & Riley Young, Music and Visual, MSM

CHEM

1st- Logan Pabotoy, The Effects of Galvanic Corrosion on Metal, OSC

2nd- Angelina Ravelo Gonzalez & Shelly Gonzalez, Melting Time, KLS

3rd- Asia Leatherwood, Tooth Decay is the Worst! HOB

MICR

1st- Jeremy Sharp, Comparative Study of the Zygote Cell Division Rate Between Three Species of Sea Urchins, SLS

PLNT

1st- Parks Dunn, Microgravity vs Seed Germination, PKS

2nd- Reef Bennett & Nicole Giordano, R.O.G.B.I.V Sun, TVM

3rd- Christina Rice, Can Green Algae Reduce Greenhouse Gases? SIGS

ENMS

1st- Taylor Thomason, Sorbent Oil Spills, SLS

2nd- Emily Hurt, Taste the Natural Rainbow, KLS

3rd- Marlee Neidlinger, The Best Bridle Invented, SLS

Special Awards Junior & Senior Divisions

SeaCamp Scholarship- Christina Rice, Can Green Algae Reduce Greenhouse Gases? SIGS

MOTE- Collin Palomino, Physical Vs. Chemical Sunscreen & Coral Reefs, SLS

Lemelson Early Inventors' Award, Liam Bursa, Making a More Efficient Wind Turbine, TVM

Thermo Fisher Innovators-

Samara MacDonald & Carol Alvarez, Can't Flush This, SIGS

Mallory Hughes, Mnemonics vs Visual, TVM

Troy Register, Styroponics, TVM

Hunter Smith, Solar Powered Golf Cart, TVM

Liam Bursa, Making a More Efficient Wind Turbine, TVM

Alison Wheatley & Eleanor Rudolph, Effects of pH levels on Solid Calcium Carbonate Weight, OSC

Taylor Thomason, Sorbent Oil Spills, SLS

Botanical Gardens- Taylor Thomason, Sorbent Oil Spills, SLS

Guy Harvey- Samara MacDonald & Carol Alvarez, Can't Flush This, SIGS
AND Angelina Bello, The Amphitheater Project: A Coral Restoration Initiative, CSHS

Friends of Bahia Honda- Sean Farrell, Ian Andersen & Andrew Kumar, Coral Reefs in Peril: Assessing Excess Nutrient Loads Within Florida Bay, CSHS **AND** Nina Bowen, The Effect of Turbulence on Algal Growth, KHWS

Coral Reef Restoration (CRF)- Alex Rudolph, Ocean Acidification Contributing to Weak Coral Skeleton, OSC **AND** Angelina Bello, The Amphitheater Project: A Coral Restoration Initiative, CSHS

P.W Environmental Restoration Award- Alison Wheatley & Eleanor Rudolph, Effects of pH levels on solid calcium carbonate weight, OSC **AND** Nina Bowen, The Effect of Turbulence on Algal Growth, KHWS

TVM- Treasure Village Montessori

SIGS- Sigsbee Charter

MSM- May Sands Montessori

KLS- Key Largo School

OSC- Ocean Studies Charter

SLS- Sugarloaf School

PKS- Plantation Key School



Category Winners for Upper Elemenatry						
CHEM				EAEV		
1st	Melting Ice	Kaiya Walsh	KLS	1st	What Color Paint Ignites the Fastest?	Carolina Cabanas TVM
2nd	Don't Brown on Me	Charlie Smith	TVM	2nd	The Type of Seagrass that Grows the Most	Finley Weer OSC
Team 1st	How do gummy bears react to different liquids?	Kenley Rey & Ava Wirth	SLS	3rd	Attracting Honey Bees	Sierra Harrington OSC
BEHA				ANIM		
1st	Food Choices	Allyson Simpson	OSC	1st	Dogs Scents: The Super Nose	Dylan Ramirez PKS
2nd	Reaction Time	Maks Wojciechowski	MSM			
BMED				IMRS		
1st	Do Athletic Students Have Better Lung Capacity?	Ralf Cipans	POI	Team 1st	Operation Bristlebot	Sebastian Maples & Jackson Boals PKS
2nd	Heart Rates in Exercise	Ocean Matthews	OSC			
3rd	Handsanitizers vs Bacteria	Aniyah McCray-Hysong	TVM			
Team 1st	Do Genders Detect Shades of Color Differently?	Madeline Haubert & Grace McManus	SIGS			
PLNT				PHYS		
1st	Effects of Lights on Plants	Raquel Wood	KLS	1st	Magnetic Temperatures	Riley Ensign KLS
2nd	Seaweed as Fertilizer	Ava Register	TVM	2nd	The Power of Balloons	Sutton Lee Sayer SSE
3rd	Plants: Soil vs. Water	Dylan Gordon	SSE	3rd	A Sunny Sun	Yasmina Irkinova GAE
Team 1st	Hydroponics vs Traditional Soil	Kyler Kolb & Samuel Melvin	SLS	Team 1st	Sling Shot, Catapult, or Crossbow	Aracin Aguilar & Max Simmons KLS
ENVE				CMBI		
1st	Turning Waste into Watts: Using a Gasifier to Produce Usuable Energy	Tanner Snowden	SSE	1st	How Well do disinfectants work?	Lanclon Baker PKS
				2nd	The Effect of Different Liquids on Alka Seltzer Tablets	Catherine Thomas SIGS
				ENMS		
1st				1st	Homemade Mini Desalination Plant	Rylin Johnson SSE
				2nd	How does Newton's Cradle work?	Samirjon Sirojev GAE
				3rd	Fishing Line Strength	Layton Lange PKS



Grand Winners Upper Elementary	
1st-	Turning Waste into Watts: Using a Gasifier to Produce Usuable Energy, Tanner Snowden, SSE
2nd-	Dogs Scents: The Super Nos, Dylan Ramirez, PKS
3rd-	Effects of Lights on Plants, Raquel Wood, KLS
1st Team Tie-	Hydroponics vs Traditional Soil, Kyler Kolb & Samuel Melvin, SLS & Boba Balls Molecular Gastronomy, Kaven Ferrer & Chase Groh, PKS

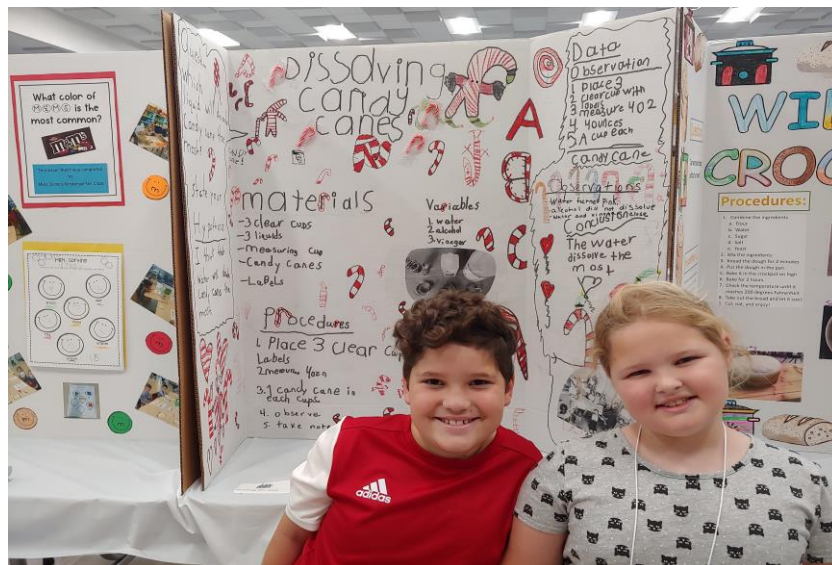
Upper Special Awards	
FROST	Seaweed as Fertilizer by- Ava Register, TVM
MOTE	Seaweed as Fertilizer by- Ava Register, TVM
Guy Harvey	What Color Paint Ignites the Fastest? Carolina Cabanas, TVM
Coral Restoration Foundation (CRF)	Fishing Line Strength by- Layton Lange, PKS How Well do Disinfectants Work? Landon Baker, PKS
P.W Enviornment Stewardship Award	Ava Register, TVM Sierra Harrington, OSC Finley Weer, OSC

TVM- Treasure Village Montessori
SIGS- Sigsbee Charter
MSM- May Sands Montessori
POI- Poinciana Elementary
SSE- Stanley Switlik Elementary

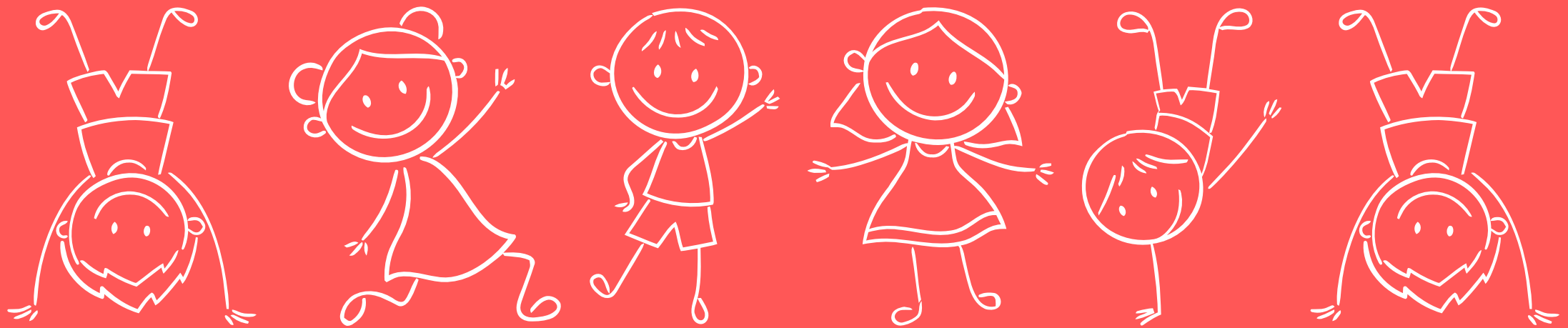
OSC- Ocean Studies Charter
SLS- Sugarloaf School
PKS- Plantation Key School
KLS- Key Largo School
GAE- Gerald Adams Elementary



Category Winners for Lower Elemenatry			
CHEM			
1st	Dissolving Candy Canes	Mrs. Depastino's Class	SSE
2nd	Glow Ghosts	PKS 3rd Grade Team	PKS
3rd	Will it Crockpot?	Ms. Quint's Class	KLS
BEHA			
1st	What Color M&M's	Ms. Bassett's Class	PKS
BMED			
1st	Do all apples have the same amount of seeds?	Mrs. Roberts' Class	POI
2nd	Taste Perception	Mrs. Mc. Daniel's Class	SSE
Lower Special Awards			
	FROST Tickets	Mrs. Conaty's Class	POI
	REEF	Mrs. Despastos Class	SSE
	Guy Harvey	Mrs. Depastino's Class	SSE



This was the first year our kindergarten though 2nd grade students participated in the Regional Fair! They were AWESOME!



MCSD STEM Fair
Volunteers & Judges
THANK YOU!

THANK
YOU
TO OUR

MCSO STEM Fair
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