Alachua

Alaonaa			
Junior	Animal Science	s	
Isaac J Long	H	loward Bishop Middle School	Mr. Paul Jost
J0107	How Diet and Cate ornatrix	rpillar Biology Affect the Longevity of the	Adult Bella Moth <i>Utetheisa</i>
Second F	Place		
Janani S Kuma		braham Lincoln Middle School	Mrs. Kim Baxter
J0141	Can Snails Act as I	Biological Control Agents for the Aquatic	Invasive Plant, <i>Hydrilla</i>
First Plac			
Junior	Biomedical & He	ealth Sciences	
Ellie G Pfahler J0308	Hue Can See It?	loward Bishop Middle School	Mr. Paul Jost
Fourth PI	ace		
Akash Verma		braham Lincoln Middle School	Mrs. Kim Baxter
J0309	RF Radiation: Can	We Keep it Down?	
First Plac	e		
Junior	Cellular/Molecul	lar Biology & Biochemistry	
James S Coha	n H	loward Bishop Middle School	Mr. Paul Jost
J0404	Determining the Op White Cauliflower	otimal Cooking Method and Pan Material	for Preserving Nutrients in
First Plac	e		
Junior	Earth & Environ	mental Sciences	
Benjamin W Ha	ahn F	ort Clarke Middle School	Mrs. Andrea Anderson
J0614	Air Potato Leaf Bee	etles: Annihilating the Perpe-tater	
Recogniti	ion		
Minnie J Liang		braham Lincoln Middle School	Mrs. Kim Baxter
J0615	El Ni-no or La Ni-ye	es?	
Second F	Place		
Junior	Engineering		
Njeri A Carthy		loward Bishop Middle School	Mr. Paul Jost
J0708	Failure Strength an	d Deflection of a Carbon Fiber/Wood Co	mposite
Recogniti	ion		
Matthew J Hers	shfield	loward Bishop Middle School	Mr. Paul Jost
J0709	General Purpose B	utton Pusher	
Third Pla	ce		
Anthony D Mad	dorsky	loward Bishop Middle School	Mrs. Tonya Camaratta
J0710	iFLAG (Innovative	Forgotten or Lost Automobile Guidance)	
Third Pla	Ce		

Third Place

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Junior	Environmenta	al Engineering	
Delia K Savin		Westwood Middle School	Mr. John Pettit
J0809	How Do Polymer	s Affect Gel Formation for Oil Remediatior	1?
Second F	Place		
Junior	Intelligent Ma	chines, Robotics, & Systems Software	
Jad Helmy		Abraham Lincoln Middle School	Mrs. Kim Baxter
J0905	Optimizing and E	xtending Alzimio to Help Dementia, Autisr	n, and Alzheimer's Patients
Second F	Place		
Junior	Mathematics	& Computational Sciences	
August A Ewer	t-Harpold	Howard Bishop Middle School	Mr. Paul Jost
J1006	A Duodecimal Na	apier's Bones	
Third Pla	ce		
Junior	Physics & Ast	ronomy	
Anya F AitSahl	ia	Oak Hall School	Mrs. Sandra Swindler
J1212	How Do the Ang Wings	le of Attack and Wind Speed Affect the Lift	Generated by a Butterfly's
Recognit	ion		
Anjana Balacha		Abraham Lincoln Middle School	Mrs. Kim Baxter
J1213	High Fives for W	i-Fi	
First Place	e		
Junior	Plant Science	s	
Hannah M Pall		Oak View Middle School	Dr. Lisa Sauberan
J1308	How Does Glyce	rin Affect the Decomposition of Organic Ma	aterials?
Third Pla	се		
Sophia K Shah		Oak View Middle School	Dr. Lisa Sauberan
J1308	How Does Glyce	rin Affect the Decomposition of Organic Ma	aterials?
Third Pla	се		
Senior	Cellular/Moled	cular Biology & Biochemistry	
Brindha P Rath	ninasabapathi	Eastside High School	Ms. Adrienne Thieke
S0404	Treating Hyperte Enzyme	nsion: Using Natural Compounds to Inhibit	t Angiotensin Converting
Honorabl	e Mention		
Senior	Earth & Enviro	onmental Sciences	
Sidhika Balach	andar	Buchholz High School	Ms. Diane McDilda
S0607	Novel Graphen (Oxide Based Technology for Ultra Efficient	Filtration
Fourth PI	ace		

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Arjun P Panick	er	Buchholz High School	Ms. Diane McDilda
S0608	Biofuels from Alg	ae	
Second F	Place		
Senior	Engineering		
Sohan G Subh	ash	F. W. Buchholz High School	Ms. Diane McDilda
S0705	Making Harder M	aterials Tougher	
Honorabl	e Mention		
Senior	Environmenta	l Engineering	
Talar Terzian		Oak Hall School	Mrs. Sandra Swindler
S0806	Spin Cycle: An O	ff-the-Grid Hydrodynamic Water Filtering N	Mobile Washing Machine
Third Pla	ce		
Senior	Intelligent Mad	chines, Robotics, & Systems Software	
Amir A Helmy		Eastside High School	Ms. Adrienne Thieke
S0906	Using Smart Pho	nes to Capture and Analyze Heart Data	
First Plac	e		
Senior	Physics & Ast	ronomy	
Esha M Patel		Oak Hall School	Mrs. Sandra Swindler
S1235	The Generation of	of Renewable Energy from Mechanical Stre	ess Exerted through Pressure

Honorable Mention

24 awards for Alachua Region

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Big Springs

	<u>.90</u>		
Junior	Biomedical &	Health Sciences	
Micaela E M	/IcGrath	The Villages Charter Middle School	Mrs. Shelbie Wiley
J0343	A Dementia Pat	ients Memory Tested for 2 Months	
Third	Place		
Vrinda G Pa	atel	South Sumter Middle School	Mrs. Shelly Paulinyce
J0344	What is the Effe	ct of Curcumin on Human Blood Coagu	llation?
Fourth	n Place		
John R Whi	taker	Homeschool	Mrs. Lori R Whitaker
J0345		C - The Effect of Ascorbic Acid (Vitamin a Cure for Anxiety Disorders	C) on the Cardiac Muscle
Honor	able Mention		
Junior	Chemistry		
Ebubechi N	waubani	The Villages Charter Middle School	Mrs. Shelbie Wiley
J0518	What Combinati Burns on Chicke	on of 3 Heat Resistant or Burn Healing en Skin?	Substances Protect Best agains
Recog	gnition		
Kareem A J	awad	The Cornerstone School	Mr. Daniel Peterson
J0520	Drought Busters	3	
Fourth	n Place		
Ethan G Wa		The Cornerstone School	Mr. Daniel Peterson
J0520	Drought Busters	3	
Fourth	n Place		
Colton A Wa		South Sumter Middle School	Mrs. Shelly Paulinyce
J0537	GOT POWER		
Honor	able Mention		
Matthew T \		South Sumter Middle School	Mrs. Shelly Paulinyce
J0537	GOT POWER		
Honor	able Mention		
Junior	Earth & Envi	ronmental Sciences	
Charles R F	Phillips	Redeemer Christian School	Mr. Robert Ayton
J0635	Where's My Wa	ter?	
Honor	able Mention		
Junior	Environment	al Engineering	
Makayla D	Bedgood	South Sumter Middle School	Mrs. Shelly Paulinyce
J0823	Combating the A	Agriculture Crisis; Aquaponics vs Hydro	ponics

Third Place

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Vivek S Sandra	apaty	Howard Middle School	Mr. Bill Bondank
J0824	Solar Energy 3.0 Stationary Solar	: Will a Slowly Rotating Solar Cell Produc Cell?	e More Electricity than a
Second F	Place		
Junior	Intelligent Ma	chines, Robotics, & Systems Software	•
Andy E Shar		The Villages Charter Middle School	Mr. Gary J Brodeur
J0913		allenges of Creating a New Computer Pro Three Different Existing Programming La d Python?	
Division (Grand Award Winne	r And First Place	
Junior	Mathematics	& Computational Sciences	
Picabo B Lesh		The Cornerstone School	Mr. Daniel Peterson
J1013	Clean Machines	_	
Third Pla	ce		
Junior	Microbiology		
Rachael N Yao	CUZZO	South Sumter Middle School	Mrs. Shelly Paulinyce
J1122	Will Certain Hous	sehold Spices Inhibit The Growth of E.co	li K-12?
Honorabl	e Mention		
Senior	Animal Science	ces	
Alyssa M Sano	hez	South Sumter High School	Ms. Emily Keeler
S0118	Methane Reduct	ion Using Cull Produce in Bos Taurus	
Fourth Pl	ace		
Carlie M Taylo	r	The Villages Charter High School	Ms. Monica Vinas
S0119	The Effects of Sp	oontaneous Mutations Upon Male Fitness	in Caenorhabditis elegans
Honorabl	e Mention		
Senior	Behavioral &	Social Sciences	
Carter W Dran	еу	The Villages Charter High School	Ms. Monica Vinas
S0213	Does Modern Te	chnology Exacerbate Teen Procrastination	n?
Second F	Place		
Abigail R Liffer	th	The Villages Charter High School	Ms. Monica Vinas
S0213	Does Modern Te	chnology Exacerbate Teen Procrastination	on?
Second F	Place		
Tiffany Liu		The Villages Charter High School	Ms. Monica Vinas
S0213	Does Modern Te	chnology Exacerbate Teen Procrastination	on?
Second F	Place		
Conior	Callula : / Mala	andan Bialama & Biadanaistma	

Senior Cellular/Molecular Biology & Biochemistry

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Sai Aditya Srira	am	Vanguard High School	Mrs. Candace Roy
S0417		Cell Bacterial Sensor Utilizing the Chemilupphthalhydrazide and Metalloproteins	uminescent Interactions
Third Pla	ce		
Senior	Chemistry		
Kunal Upadya		Vanguard High School	Mrs. Candace Roy
S0519	Copper Oxide Na Delivery System	anoparticles for Adsorption of Phosphate	in a Novel Gel-Loaded
Second F	Place		
Colby D Pitts		South Sumter High School	Ms. Emily Keeler
S0536	The Absorption of	of Textile Dyes using Organic Waste Mate	erial
Third Pla	ce		
Senior	Earth & Enviro	onmental Sciences	
Emily M Hough	l	South Sumter High School	Ms. Emily Keeler
S0644	Mass Transfer TI	neory vs Pan Evaporation Method	
Third Pla	ce		
Casey J Ryan		South Sumter High School	Ms. Emily Keeler
S0644	Mass Transfer Tl	neory vs Pan Evaporation Method	
Third Pla	ce		
Jacob C Wells		South Sumter High School	Ms. Emily Keeler
S0644	Mass Transfer Tl	neory vs Pan Evaporation Method	
Third Pla	ce		
Senior	Engineering		
Joseph E Cilen	ti	South Sumter High School	Ms. Emily Keeler
S0717	Reach Into the F	uture II	
Honorabl	e Mention		
Senior	Environmenta	l Enaineerina	
Kevin M Matos		The Villages Charter High School	Ms. Monica Vinas
S0818		tobioreactors: Eliminating Industrial Emis	
Third Pla	ne .		
Sabrina L Mea		The Villages Charter High School	Ms. Monica Vinas
S0819		Produces the Strongest Bioplastic, and W	
Recognit	on		
Senior	Intelligent Mad	chines, Robotics, & Systems Software	e
Johnathan M B		South Sumter High School	Ms. Emily Keeler
S0923	AARLink: The Fu	ture of Multi-GPUs?	•
Third Pla	ce		
Senior	Microbiology		

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Angela Shar Vanguard High School Mrs. Candace Roy S1133 Biowarfare: How Do Bacteriophages Lyse Bacterial Cells?

Honorable Mention

30 awards for Big Springs Region

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Brevard: Intracoastal

Junior	Animal Sciences	
Jacob A Pelhan		
J0112	Organic or Non-Organic	
Recognition	n	
Junior	Behavioral & Social Sciences	
Auria K Rembe	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
J0226	How Does Music Affect Your Stress Levels?	
Third Place	e	
Junior	Biomedical & Health Sciences	
Rylan S Andrew	s DeLaura Middle School Ms. Deborah Austin	
J0310	Exposed:The Effect of UV Light on DNA	
Fourth Pla	се	
Junior	Cellular/Molecular Biology & Biochemistry	
Dylan Geiger	DeLaura Middle School Ms. Deborah Austin	
J0406	Meta Yeast vs Natural Supplements	
Second P	ace	
Junior	Chemistry	
Alyssa M Donal	Edgewood Jr/Sr High School Mrs. Meredith Fredricks	
J0512	What's Stuck in the Muck?	
Third Place	e	
Junior	Earth & Environmental Sciences	
Erin K Gaydar	Edgewood Jr/Sr High School Mrs. Meredith Fredricks	
J0620	How Do Different Levels of Phosphorus Affect the Indian River Lagoon's Ecosystem'	?
Honorable	Mention	
Junior	Engineering	
Isabella R Wein	er Saint Mary's Catholic School Mrs. Dianne Alexis	
J0716	In Situ Resource Utilization of Martian Regolith for Construction	
Second P	ace	
Junior	Environmental Engineering	
Eliana J Razzin	DeLaura Middle School Ms. Shandra Stewart	
J0811	Clean Green Machine	
Third Place	9	

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Junior Intelligent Machines, Robotics, & Systems Software

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Benjamin Batma	an	DeLaura Middle School	Ms. Deborah Austin
J0908	Signaling Motion	Sensor	
Fourth Pla	ice		
Junior	Mathematics 8	& Computational Sciences	
Evan Karcher		DeLaura Middle School	Ms. Deborah Austin
J1009	Space Travel: W	hat A Drag?	
Fourth Pla	ice		
Junior	Microbiology		
Alexander M La	Fortune	Cocoa Beach Junior/Senior High School	Ms. Alberta Travers
J1104		Clean, Year 2: The Effects of Unfiltered a Viability of Gram-Positive <i>Micrococcus lu</i> ria	
Second P	lace		
Junior	Plant Science	s	
Tabina Hossain		DeLaura Middle School	Ms. Deborah Austin
J1311	Does Ceratophyl	<i>lum demersum</i> Inhibit the Growth of Anab	paena?
First Place	e		
Senior	Animal Science	es	
Sean M Kenned	•	Edgewood Jr/Sr High School	Mr. Ryan Cilsick
S0108	Preventing Endo	crine Disruption in <i>Danio</i> Embryos	
Recognition	on		
Senior	Behavioral & S	Social Sciences	
Alyssa Russell		Satellite High School	Mr. Joe Scott
S0207	Sound of Music -	Year III	
Second P	lace		
Senior	Biomedical &	Health Sciences	
Julia Hoffman		Satellite High School	Mr. Joe Scott
S0309	Enhancing Breas	t Cancer Treatment Efficiency Using Circ	adian Rhythms
Third Place	e		
Senior	Chemistry		
Enjolie Vadella		Satellite High School	Mr. Joe Scott
S0507	Just Enough Bind	der for Multi-Walled Carbon Nanotubes	
Fourth Pla	ice		
Senior	Earth & Enviro	onmental Sciences	
Jieli A Wegerif		Edgewood Jr/Sr High School	Mr. Ryan Cilsick
S0611	The Effect of Wa	ve Action on Muck Flux	-
Second P			

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Senior	Environmental	Engineering
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Jules Volny Satellite High School Mr. Joe Scott S0808 Photovoltaic Sandwich - Year III

Recognition

Senior Intelligent Machines, Robotics, & Systems Software

Garrett A Ellington Edgewood Jr/Sr High School Mr. Ryan Cilsick

S0908 How Accurate is EEG - Year 3

Third Place

Senior Mathematics & Computational Sciences

Kelly Van Woesik Satellite High School Mr. Joe Scott

S1034 Home Ranges of Atlantic Great White Sharks - Phase II

Second Place

Senior Physics & Astronomy

Zane T Forrester Edgewood Jr/Sr High School Mr. Ryan Cilsick

S1208 The Influence of Perovskite Layer Thickness and the Efficiency of a BiFeO3 Solar Cell

Second Place

Senior Plant Sciences

Lily M Tucciarone Edgewood Jr/Sr High School Mr. Ryan Cilsick
S1304 Effect of Hydroponic Application of Thuricide on the Protein of Glycine Max Pods

Second Place

22 awards for Brevard: Intracoastal Region

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Brevard: Mainland

Junior	Animal Science	ces	
Tehya A Bahs	oun	West Shore Jr. / Sr. High School	Ms. Mary Anderson
J0125	How Toxic is UV	Radiation to Marine Organisms?	
Honoral	le Mention		
Junior	Biomedical &	Health Sciences	
Madeline E H	uberman	West Shore Jr. / Sr. High School	Mr. Robert Klaasen
J0326		ces cerevisiae, Grown in the Presence Radiation Damage?	of Vitamin D, Become More
Second	Place		
Junior	Cellular/Moled	cular Biology & Biochemistry	
Kaylee C Krin	inger	West Shore Jr. / Sr. High School	Mr. Robert Klaasen
J0412	Differential Dece	llularization	
Second	Place		
Junior	Earth & Enviro	onmental Sciences	
Brooke C Rer	tschler	West Shore Jr. / Sr. High School	Ms. Mary Anderson
J0639	Is It Possible to 0 Movement and D	Create a More Natural Reef Using Loca Decomposition?	ll Vegetal Ingredients Year II:
First Pla	ce		
Junior	Environmenta	l Engineering	
Danielle Schre	peder	Staint Teresa Catholic School	Mrs. Patricia Taurasi
J0826	Does the Salinity	of Water Affect the Amount of Energy	Created by a Salt Water Battery'
Recogni	tion		
Junior	Mathematics	& Computational Sciences	
Nathan Foo		West Shore Jr. / Sr. High School	Ms. Mary Anderson
J1015	Deriving a Preda	tor-Prey Model for Regulating the Grov	Ale of LIADs with Different
		ankton inside of a Water Ecological Sy	
First Pla	Species of Zoopl		
First Pla	Species of Zoopl		
	Species of Zoopl		
Junior	Species of Zoopl ce <i>Microbiology</i>	ankton inside of a Water Ecological Sy	Stem Mr. Greg Stauffer
Junior Om D Patel J1109	Species of Zoopl ce <i>Microbiology</i>	ankton inside of a Water Ecological Sy Lyndon B. Johnson Middle School tibacterial Activity of the Piper Betel Lea	Stem Mr. Greg Stauffer
Junior Om D Patel J1109	Species of Zoopl ce Microbiology Evaluation of Ant	ankton inside of a Water Ecological Sy Lyndon B. Johnson Middle School tibacterial Activity of the Piper Betel Lear And First Place	Stem Mr. Greg Stauffer
Junior Om D Patel J1109 Division	Species of Zoopl ce Microbiology Evaluation of Ant Grand Award Winner	ankton inside of a Water Ecological Sy Lyndon B. Johnson Middle School tibacterial Activity of the Piper Betel Lear And First Place	Stem Mr. Greg Stauffer
Junior Om D Patel J1109 Division Junior	Species of Zooplece Microbiology Evaluation of Anterior Grand Award Winner Physics & Asterior	Lyndon B. Johnson Middle School tibacterial Activity of the Piper Betel Lear And First Place Tronomy Cocoa High School eopectic Non-Newtonian Fluid to the In	Mr. Greg Stauffer af Mrs. Cynthia Hornby

Junior Plant Sciences

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Asher G Dorfm	an	West Shore Jr. / Sr. High School	Ms. Mary Anderson
J1324	Preventing Allelo	pathy	
Third Place	ce		
Senior	Animal Science	ces	
River C Grace		West Shore Jr. / Sr. High School	Ms. Mary Anderson
S0122		n the Blind: Evolutionary Regression and Ramphotyphlops braminus - Year 3	d Adaptive Progression in the
Second F	Place		
Senior	Behavioral &	Social Sciences	
Andres A Cruz-	-Sanchez	West Shore Jr. / Sr. High School	Ms. Mary Anderson
S0214		Security!" Impact of Cell Phone Hands-F Time Performance	ree Dual Tasking Function on
Fourth Pl	ace		
Senior	Biomedical &	Health Sciences	
Juan E Torres		West Shore Jr. / Sr. High School	Ms. Mary Anderson
S0324	Rhythmic Trainin	g and its Effect on Rise-Time Perception	1
Recogniti	on		
Senior	Cellular/Moled	cular Biology & Biochemistry	
Joanna LaTorre	9	West Shore Jr. / Sr. High School	Ms. Mary Anderson
S0421	Sugar vs Sugar S	Substitutes	
Recogniti	on		
Senior	Earth & Enviro	onmental Sciences	
Alexandra K Ga	abrielski	Viera High School	Ms. Elizabeth Youngs
S0624		ustainability of a Heterotrophic Biomass	· ·
Honorabl	e Mention		
Senior	Environmenta	al Engineering	
Kyle Bramblett		Titusville High School	Mr. Allan Sprayberry
S0828	River Water Affe	nd Fertilizers Commonly Found in Surfactor ct the Oyster <i>Crassostrea virginica</i> and by ly Filter and Improve the Overall Water C	Clam Mercenaria mercenaria
Fourth Pl	ace		
Senior	Mathematics	& Computational Sciences	
Muhammad U		West Shore Jr. / Sr. High School	Ms. Paula Ladd
S1015		proach to the Identification of Heart Disea	ase
Second F	Place		

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Senior *Microbiology*

Vie	era High School	Ms. Elizabeth Youngs
Can Halobacterium	salinarium Survive in Regolith M	Mars Simulants?
ace		
e Vie	era High School	Ms. Elizabeth Youngs
Can Halobacterium	salinarium Survive in Regolith M	lars Simulants?
ace		
Vie	era High School	Ms. Elizabeth Youngs
Can Halobacterium	salinarium Survive in Regolith M	lars Simulants?
ace		
400		
Physics & Astron	nomy	
Physics & Astron	est Shore Jr. / Sr. High School	Ms. Paula Ladd
Physics & Astron	<u> </u>	
Physics & Astron	est Shore Jr. / Sr. High School	
Physics & Astron Does Synthetic Share	est Shore Jr. / Sr. High School	
	Can Halobacterium ace e Vi Can Halobacterium ace Vi Can Halobacterium	Can Halobacterium salinarium Survive in Regolith Mace Viera High School Can Halobacterium salinarium Survive in Regolith Mace Viera High School Can Halobacterium salinarium Survive in Regolith Mace

The Effects of Reactive Oxygen Associated Molecules (ROAMs) on ROS Production

Second Place

S1316

21 awards for Brevard: Mainland Region

and Growth in Arabidopsis thaliana

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Brevard: South

Junior	Behavioral & S	Social Sciences	
Violet T Sibol		Herbert Hoover Middle School	Ms. Michelle Zimmerman
J0227	Fixed on Gaming		
Fourth PI	ace		
Junior	Biomedical &	Health Sciences	
Kima S Sibaya	n	Herbert Hoover Middle School	Ms. Michelle Zimmerman
J0341	Oh No, Sucralose	e!	
Second F	Place		
Junior	Cellular/Molec	ular Biology & Biochemistry	
Kellen J Mauru	S	Herbert Hoover Middle School	Ms. Michelle Zimmerman
J0419	The Effect of Extr	acellular Matrix on the Regeneration Rate	of Lumbricus terrestris
Third Pla	ce		
Junior	Chemistry		
Arianna Nicola	S	Stone Magnet Middle School	Mr. Richard Regan
J0533	A Comparison of Fluid	Natural Remedies and OTC Medicines on	the pH of Simulated Gastrio
Recognit	ion		
Junior	Earth & Enviro	onmental Sciences	
Dillon Elliott		Stone Magnet Middle School	Mr. Richard Regan
J0658	Developing and T	esting a Bioassay to Detect Microplastics	
First Plac	e		
Junior	Engineering		
William A Ginie	ewski	Herbert Hoover Middle School	Ms. Michelle Zimmerman
J0745	Piston Powered F	Prosthesis	
Honorabl	e Mention		
Carl Critchfield		Stone Magnet Middle School	Mr. Richard Regan
J0746	Optimizing the St	all Angle and the Lift of a 3-D Printed Airfo	il
Honorabl	e Mention		
Junior	Mathematics 8	& Computational Sciences	
Hannah Cheste	er	Stone Magnet Middle School	Mr. Richard Regan
J1020	Simulating a Res	idue Number System in the Python Progra	mming Application
Recognit	ion		
_			

Junior *Microbiology*

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Riaaz Khan		Stone Magnet Middle School	Mr. Richard Regan
J1120		the Antimicrobial Properties of Oil from the Oil from Lemongrass, <i>Cymbopogon</i> on	
Second	Place		
Junior	Physics & Ast	ronomy	
Ankitha Nath		Stone Magnet Middle School	Mr. Richard Regan
J1248	Investigating the	Affects of Liquid Density on the Refraction	n of Laser Light
Honorab	ole Mention		
Junior	Plant Science	s	
James Coffey		Stone Magnet Middle School	Mr. Richard Regan
J1337		oil Nutrients on the Percentage of Trap Clo Produced by the Trap of a Venus Flytrap	osures and the Amplitude of
Recogni	tion		
Senior	Behavioral &	Social Sciences	
Aiden M Calei	nda	Melbourne High School	Ms. Robin Floyd
S0225	How Do Hurricar	nes Affect the Movement Patterns of Spec	ies of Sharks?
Honorab	ole Mention		
Senior	Biomedical &	Health Sciences	
Marissa A Jor	dan	Palm Bay Magnet High School	Mr. Robert Cooper
S0334	The Fabrication a	and Evaluation of a Prosthetic Macula to F graphic Atrophy	Restore Vision in Patients
Honorab	ole Mention		
Senior	Cellular/Moled	cular Biology & Biochemistry	
Ritika Jeloka		Melbourne High School	Ms. Robin Floyd
S0433	The Effects of Miterrestris	croplastics on the Neurotransmission rate	e of an Earthworm, <i>Lumbricus</i>
Fourth F	Place		
Senior	Earth & Enviro	onmental Sciences	
Kenneth M We	est	Melbourne High School	Ms. Robin Floyd
S0641	Improving Shade	Balls	
Third Pla	ace		
Senior	Engineering		
Benjamin R B		Bayside High School	Mr. Aaron Mitchell
S0729	A New Spin on the	ne Flywheel	
Recogni	tion		

Senior Environmental Engineering

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Elliot P Whitney		Palm Bay Magnet High School	Mr. Robert Cooper
S0834	The Design and River Lagoon	Construction of a Digital Water Qu	uality Monitor for Use in the Indian

Second Place

Senior Mathematics & Computational Sciences

Angela K Sutton Bayside High School Ms. Ellen Muse S1029 An Application and Analyzation of Orbifold Based Chord Geometries

Fourth Place

Senior Physics & Astronomy

Devon J Madden Bayside High School Mr. Aaron Mitchell S1232 Year Two: The Absorption of Space Radiation with Development in Shielding Materials

Third Place

Senior Plant Sciences

Ryan J Dunwoody Palm Bay Magnet High School Mr. Robert Cooper
S1329 The Use of *Mycorrhizae* (fungi) to Increase the Health of *Zea mays* (corn) in the
Brazilian Amazon, and Decrease Soil Deterioration

Fourth Place

20 awards for Brevard: South Region

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Broward

Junior	Biomedical &	Health Sciences	
Gauri Kasarla		American Heritage School	Mrs. Leya Mathew Joykutty
J0329		ency of Avastin in Zebrafish Embryos to I ications in the Treatment of Hypoxia in Pr	
Fourth Pl	ace		
Rochelle A Rov		Lauderdale Lakes Middle School	Mr. Alexis Castillo
J0332	Turn Down Fur V the Structure of t	Vatt? An Investigative Study into the Nega he Stereocilia	ative Effects of Loud Music on
Honorabl	e Mention		
Junior	Cellular/Moled	cular Biology & Biochemistry	
Alejandra S Ab	ramson	American Heritage School	Mrs. Leya Mathew Joykutty
J0413	Effect of Crude C	oil on the Degeneration of <i>Planaria</i>	
Honorabl	e Mention		
Rolando A Cot	0	Tequesta Trace Middle School	Mrs. Gayle Swinerton
J0414	Heartbeats that \	Vill Make You Think Twice	
Third Pla	ce		
Junior	Chemistry		
Ariel Arias		NSU University School	Ms. Jessica Lanzetta
J0524	Using pH Indicat Pollution	or to Find the Acidity of Soil Determines it	f Gas Stations Cause Soil
Recognit	ion		
Junior	Earth & Enviro	onmental Sciences	
Megan Wessin	ger	New River Middle School	Ms. Ashley Trimble
J0644	Turtle Hurdles		
Fourth PI	ace		
Sumaiya Rahm	nan	Alazhar School	Mrs. Raghida Zamzam
J0645	Combating Oil S	pills Naturally	
Second F	Place		
Junior	Intelligent Ma	chines, Robotics, & Systems Software	•
Manuel Nouel-	Mato	The Sagemont School	Ms. Erin McCormick
J0916	How Secure is Y	our Password?	
Recognit	ion		
Brady P Garris	on	Pembroke Pines Charter Middle School	Mrs. Caroline Echeverri
J0917	Herbie the Photo	vore: Designing an Efficient Light- followi	ng Robot
Fourth PI	ace		

Junior Mathematics & Computational Sciences

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Logan L Saenz	Per	mbroke Pines Charter Middle School	Mrs. Piper Spencer
J1016	An Analysis of the Pr	operties of Pascal's Triangle	
Recognition	on		
Junior	Physics & Astrono	omy	
Benjamin C Abi	-	erican Heritage School	Mrs. Leya Mathew Joykutty
J1239	Materials that Best B	-	mo. Loya manon ooynaay
Fourth Pla Gabriel M Diaz		mbroke Pines Charter Middle School	Mrs. Piper Spencer
J1240	Bluetooth Tracking	TISTORE I THES CHARLET WINDLE SCHOOL	Wila. I ipel openicel
Fourth Pla		mbraka Dinas Charter Middle School	Ma Maliana Magatu
Natalie M Gonz J1241		mbroke Pines Charter Middle School to Bend Light onto Solar Panels?	Ms. Melissa Maestu
J1241	- Can Water be obed t	E Bend Light onto Coldi i unicio:	
Recognition	on		
Junior	Plant Sciences		
Andrew H Simo		erican Heritage School	Mrs. Leya Mathew Joykutty
J1327		orrelation between the Capsaicinoid Co	oncentration of the Fruit of
	the Genus Capsicum	and Organic Growth Conditions	
First Place	e		
Senior	Behavioral & Soci	ial Sciences	
Paige E Pokryfk	ke Sair	nt Thomas Aquinas High School	Mrs. Laura Shearer
S0218	Stimulating Neurotran	nsmission to Improve Standard Test Sc	ores
Recognition	on		
Maxence C Sut		oress Bay High School	Mr. Jay Rosenberg
S0219	Using Grit to Determi	ine Student Success	
Honorable	e Mention		
Senior	Biomedical & Hea	alth Sciences	
Gabriel M Frydr		U University School	Mr. Arnold Miller
S0327		Methods for Confirmation of RNA Silen	
Doogniti			
Recognition			
Senior		r Biology & Biochemistry	
Saagar Jain		e Crest School	Ms. Jennifer Gordinier
S0423	Differentiation	riant Expression of MCIDAS Does not I	nduce Ciliated Cell
Second P	lace		
Senior	Chemistry		
Suganth Kanna		erican Heritage School	Mrs. Leya Mathew Joykutty
S0524		encan Hemage School Igorithm to Filter and Assign Signals in	
30324	to Accelerate Drug D		Trotom riving opcomoscop
Second P	lace	<u>-</u>	
2000.141			

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Padmavathi Reddy American Heritage School Mrs. Leya Mathew Joykutty Improving Nitration Activity of Fused TxtE-Cyp102A1 Reductase Domain by Optimizing S0527 the Linker Length Division Grand Award Winner And First Place Senior Earth & Environmental Sciences Emily L Pallack American Heritage School Mrs. Leya Mathew Joykutty A Comparative Analysis of Fluensulfone as a Nematicide on Caenorhabditis Elegans S0631 SKN-1 Pathway Mutants and in Vivo RNA Interference Study as a Solution of Nematicidal Resistance Third Place Lauren A Waldman American Heritage School Mrs. Leya Mathew Joykutty Aerobic Cometabolism of cis-DCE by Rhodococcus rhodochrous ATCC® 21198 with S0632 Isobutane Growth Substrate First Place Lourdes M Lopez Archbishop Edward A. McCarthy High School Mrs. Diane Enten Manipulating Expression of the Flowering Locus T Gene in Pinus taeda and Populus S0633 trichocarpa Fourth Place Senior Engineering Stefan Abi-Karam American Heritage School Mrs. Leya Mathew Joykutty Creating a System for Cheap Distributed Landmine Sensing Using GPS and GSM S0722 Technologies Coupled with Low cost Electrical Design, Engineering and Manufacturing **Techniques** Third Place Senior Environmental Engineering Nithya Kasarla American Heritage School Mrs. Leya Mathew Joykutty Using Various Compounds to Increase the Efficiency of Cadmium Chelation Processes S0825 in S. lycopersicum, L. minor and C. elegans: Improving Phytoremediation Processes and Cadmium Poisoning Treatments Fourth Place Senior Intelligent Machines, Robotics, & Systems Software Pine Crest School Rachel Auslander Ms. Jennifer Gordinier Taking Steps to Ensure Safety: A Novel, Wearable, Accelerometric Device S0916 Third Place **Antares Tobelem** American Heritage School Mrs. Leya Mathew Joykutty Patient Paperwork Portal S0917 Recognition Senior Mathematics & Computational Sciences Lauren K Enten Saint Thomas Aguinas High School Mrs. Laura Shearer

Third Place

Method

S1017

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Improving Predictive Capabilities of Metastatic Breast Cancer Models Using a GRG

Trishala Kuma	nr	American Heritage School	Mrs. Leya Mathew Joykutty
S1121		Metastasis in MDA-MD-231 in of <i>Staphylococcus aureus</i>	and PC-3 Cells by the Extracellular

First Place

Senior	Physics & Astronomy
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Giancarlo D C	abeza	Western High School	Ms. Magda Murphy-Bozkurt
S1225	Stability Statistics		

Third Place

Senior Plant Sciences

Rajat Ramesh		American Heritage School	Mrs. Leya Mathew Joykutty
S1319	•	nples of Citrus Sinensis for Proteobacteria ciation with Citrus Greening	Candidatus Liberibacter

Recognition

31 awards for Broward Region

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Capital

Oupitui			
Junior	Animal Science	es	
Isabella Augu	stine	Trinity Catholic School	Dr. Claudia Arakelian
J0117	Which Natural Ex	tract Is Most Effective in Repelling	Mosquitos?
Fourth F	Place		
Junior	Behavioral & S	Social Sciences	
Ethan J Stewa	art	Community Leadership Academy	Mrs. Tina Hinton
J0208	Male vs Female: \	Who Exhibits More Unsafe Driving	Behaviors?
Fourth F	Place		
Junior	Biomedical & F	Health Sciences	
Bryan S Park	(Deerlake Middle School	Mrs. Marla Blair
J0320	Does Microwave	Cooking Affect Vitamin C?	
Recogni	ition		
Junior	Chemistry		
Surabhi Kuma	ar	Deerlake Middle School	Mrs. Marla Blair
J0517	Precise Measurer	ment of Surface Tension in Liquids	and the Effect of Temperature
Second	Place		
Sandhya Kum	nar	Deerlake Middle School	Mrs. Marla Blair
J0517	Precise Measurer	ment of Surface Tension in Liquids	and the Effect of Temperature
Second	Place		
Junior	Earth & Enviro	nmental Sciences	
Brock H Wom		Deerlake Middle School	Mrs. Marla Blair
J0642		es: Conducting Water Quality Test ronment of Lentic Water Systems	s to Determine the Impact of the on Nonpoint Source Pollution Levels
Third Pla	ace		
Senior	Biomedical & F	Health Sciences	
Odessa X Dei	ng	Lawton Chiles High School	Mrs. Angela Breza-Pierce
S0318	Yeast Cells as a N	Model for Misfolded Protein Dispos	sal in Huntington's Disease
Fourth F	Place		
Senior	Cellular/Molec	ular Biology & Biochemistry	
Joanna Q Wa	ng	Lawton Chiles High School	Mrs. Angela Breza-Pierce
S0416	Identify Cdc48 Cd	factors Required for Autophagy	
Fourth F	Place		

Senior Chemistry

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Akhil K Shiju		Lawton Chiles High School	Mrs. Angela Breza-Pierce
S0517 A Study on Organ Solution		nic Photovoltaic Cells: Powering the Future with a More Ecofriendly	
Recognit	ion		
Senior	Physics & Ast	ronomv	

Desiree' Robinson James S. Rickards High School Dr. Paula Hall A Progressive Airfoil Study on the Convexity and Concavity of Wind Turbine Blades and Their Wind Resistance Efficiencies S1217

Recognition

10 awards for Capital Region

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Citrus

Junior	Animal Science	res	
Elise Leturno		Lecanto Middle School	Ms. Rebecca Clymer
J0130	Chickens + CaCo	03 = Quality Eggshells?	
Recogniti	on		
Junior	Earth & Enviro	onmental Sciences	
Raine Leonard		Citrus Springs Middle School	Ms. Lauren Gonzales
J0632	The Effects of Oc	ean Acidification on Shellfish	
Honorable	e Mention		
Junior	Environmenta	l Engineering	
Joshua Brunk		Inverness Middle School	Mr. Stephen Crandall
J0822	Thermoelectric G	enerators and Solar Cells - Watts Up!	
Fourth Pla	ace		
Senior	Engineering		
Kelly Laplante		Academy of Environmental Science	Mr. Ward Cooper
S0716	Harvesting Energ	y From VAWTs Installed in Water Pipes	
Fourth Pla	ace		
Senior	Environmenta	l Engineering	
Alisa Luthra		Academy of Environmental Science	Mr. Ward Cooper
S0817	Measuring Flow F	Rate	
Recogniti	on		
Senior	Microbiology		
Truman Roland	d	Citrus High School	Ms. Gene Trescott
S1113		arying Sensitivity, Initial Resistance, and For Fluoroquinolone, Aminoglycoside, and A	

Fourth Place

6 awards for Citrus Region

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Clay Rotary

Junior Animal Scient	ences	
Joseph L Brooks	Green Cove Springs Junior High School	Ms. Erica Vanderventer
J0124 The superhere	o of the sky: The Dragonfly	
Honorable Mention		
Junior Engineering	9	
Gavin A Baker	Green Cove Springs Junior High School	Ms. Erica Vanderventer
J0731 It's Getting Ho	t In Here!	
First Place		
Junior Physics & A	Astronomy	
Nathan T Baxter	Keystone Heights Junior/Senior High School	Mrs. Teresa Whitfield
J1235 Sound Has th	e Power	
Third Place		
Ellie Wilhelm	Oakleaf Junior High School	Mrs. Stephany Wilson
J1236 Catch the Wa	ve	
Recognition		
Senior Animal Scient	ences	
Sierra D Langford	Clay High School	Mrs. Tracey Kumm
S0133 Here's the Gri	nd: Can Papaya Seed Be Used as an Effectiv	ve Dewormer in Goats?
Recognition		
Senior Engineering	9	
Michael B Mancil	Orange Park High School	Mrs. Kathryn Ruelas
S0718 Natural Insula	tion	

Recognition

6 awards for Clay Rotary Region

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Collier

Conner			
Junior	Biomedical &	Health Sciences	
Johnathan D	Konopik	Oakridge Middle School	Mrs. Amy Diemert
J0307	Effect of Sugar a	ind Acidity on Tooth Decay	
Recogn	ition		
Junior	Chemistry		
Madeline Ma	ir	Pine Ridge Middle School	Mr. Greg Anthony
J0507	Laundry Deterge	ents vs Stains, Cost and the Environment	
Fourth F	Place		
Junior	Earth & Envir	onmental Sciences	
Alex R D'Arco)	Pine Ridge Middle School	Mr. Gregory Anthony
J0613	Can <i>Daphnia</i> Co	onsume Different Populations of Chlamydo	monas Algae?
Second	Place		
Junior	Engineering		
Alice M Fowle)	Pine Ridge Middle School	Mr. Gregory Anthony
J0704	Harnessing Wav	e Energy on Shorelines	
Fourth F	Place		
Karl Reiter		Corkscrew Middle School	Mrs. Rachel Carter
J0748	Materials as Sou	ınd Barriers in Space	
Honoral	ole Mention		
Junior	Physics & Asi	tronomy	
James T Club	oley	Gulf View Middle School	Mrs. Lori Frontz
J1210	Voltage Insultage	e	
Third Pl	ace		
Micah Evans		North Naples Middle School	Ms. Natalie Moritz
J1211	Test Your Streng	th: Effect of Different Material Conductivit	ty on Magnetic Fields' Strength
Second	Place		
Senior	Biomedical &	Health Sciences	
Cameron W F	Hochman	Home School	Mr. Eric Hochman
S0307	The Effects of Control	ell Phone Radiation on Reproduction and \ nogaster	Wing Phenotype Mutation in
Third Pl	ace		
Senior	Physics & Asi	tronomy	
Anabella Mari	~	HomeSchool	Dr. Kenneth Galang
S1224	Sun's Shades: V	Vhat Color Best Protects Against UV Radia	ation
Recogn	ition		

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9 awards for Collier Region

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Dr. Nelson Ying Expo - Orange

Junior	Animal Science	200	
	Animai Scienc		Mac Dakin Dakita
Luke J Arango	Daga Tima Matta	Saint John Vianney Catholic School	Mrs. Robin DeVito
J0139	Does Time Matte	r When You are Frozen?	
Fourth Pla	ace		
Junior	Biomedical & I	Health Sciences	
Hannah L Nair		International Community School	Mrs. Terry Davis
J0342	Depth Perception	Challenge	
Third Place	ce		
Junior	Chemistry		
Addie G Weeks	3	International Community School	Mrs. Terry Davis
J0534	Is Pricey Paint W	orth It?	
Fourth Pla	ace		
Junior	Earth & Enviro	onmental Sciences	
Julia C Jamieso	on	Lake Eola Charter School	Mr. Robert Madewell
J0659	Solar Purification		
Third Place	ce		
Junior	Intelligent Mad	chines, Robotics, & Systems Software	
Junior Nathan J Cheng		chines, Robotics, & Systems Software Avalon Middle School	Ms. Fadia Ahmed Hussien
	g	<u> </u>	
Nathan J Cheng	g Creating Visualiza Actuators	Avalon Middle School	
Nathan J Cheno J0922	Creating Visualize Actuators Mention	Avalon Middle School	
Nathan J Cheng J0922 Honorable	Creating Visualizate Actuators Microbiology	Avalon Middle School	
Nathan J Cheng J0922 Honorable Junior	Creating Visualized Actuators Microbiology iim	Avalon Middle School ations of Intensity and Pitch Using Comput	ter Software to Control Linear Mr. Jason Stampas
Nathan J Cheng J0922 Honorable Junior Salma Benbrah	Creating Visualized Actuators Microbiology At What Concent	Avalon Middle School ations of Intensity and Pitch Using Comput Orlando Science Middle School	ter Software to Control Linear Mr. Jason Stampas
Nathan J Cheng J0922 Honorable Junior Salma Benbrah J1121	Creating Visualized Actuators Microbiology At What Concent	Avalon Middle School ations of Intensity and Pitch Using Comput Orlando Science Middle School ration is Allium sativum an Effective Antiba	ter Software to Control Linear Mr. Jason Stampas
Nathan J Cheng J0922 Honorable Junior Salma Benbrah J1121 Fourth Pla	Creating Visualized Actuators Microbiology im At What Concented Actuators At What Concented Actuators	Avalon Middle School ations of Intensity and Pitch Using Comput Orlando Science Middle School ration is Allium sativum an Effective Antiba	ter Software to Control Linear Mr. Jason Stampas
Nathan J Cheng J0922 Honorable Junior Salma Benbrah J1121 Fourth Pla Junior	Creating Visualized Actuators Microbiology im At What Concented Actuators At What Concented Actuators	Avalon Middle School ations of Intensity and Pitch Using Comput Orlando Science Middle School ration is Allium sativum an Effective Antiba	ter Software to Control Linear Mr. Jason Stampas acterial
Nathan J Cheng J0922 Honorable Junior Salma Benbrah J1121 Fourth Pla Junior Luke J Hawxwe	Creating Visualizate Actuators Microbiology im At What Concent ace Physics & Astuate Radar Invisibility	Avalon Middle School ations of Intensity and Pitch Using Comput Orlando Science Middle School ration is Allium sativum an Effective Antiba	ter Software to Control Linear Mr. Jason Stampas acterial
Nathan J Cheng J0922 Honorable Junior Salma Benbrah J1121 Fourth Pla Junior Luke J Hawxwe J1249	Creating Visualizate Actuators Microbiology im At What Concent ace Physics & Astuate Radar Invisibility	Avalon Middle School ations of Intensity and Pitch Using Comput Orlando Science Middle School ration is Allium sativum an Effective Antiba ronomy Conway Middle School	ter Software to Control Linear Mr. Jason Stampas acterial
Nathan J Cheng J0922 Honorable Junior Salma Benbrah J1121 Fourth Pla Junior Luke J Hawxwe J1249 Fourth Pla	Creating Visualizated Actuators Microbiology Imm At What Concent Actuators At What Concent Concen	Avalon Middle School ations of Intensity and Pitch Using Comput Orlando Science Middle School ration is Allium sativum an Effective Antiba ronomy Conway Middle School	ter Software to Control Linear Mr. Jason Stampas acterial
Nathan J Cheng J0922 Honorable Junior Salma Benbrah J1121 Fourth Pla Junior Luke J Hawxwe J1249 Fourth Pla Junior	Creating Visualized Actuators Microbiology im At What Concented Actuators At What Concented Actuato	Avalon Middle School ations of Intensity and Pitch Using Comput Orlando Science Middle School ration is Allium sativum an Effective Antiba ronomy Conway Middle School	Mr. Jason Stampas acterial Ms. Amy Kramer

Second Place

Senior Animal Sciences

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Anjeli V Nandw	<i>r</i> ani	Lake Highland Preparatory School	Mrs. Nicole A. Justice
S0134		zadirachta indica (Neem) and <i>Dysphania a</i> Asian Citrus Psyllid)	mbriosides (Epazote) on
Third Pla	ce		
Senior	Biomedical &	Health Sciences	
Meghana Ganj	am	Lake Highland Preparatory School	Mrs. Zasha A. Mickey
S0335	Diffusion of Anti- Cellular Membra	Inflammatory Components of Sesame See ne Barriers	d Oil through Biological and
Honorabl	e Mention		
Senior	Cellular/Moled	cular Biology & Biochemistry	
Rithvik Seela		Lake Highland Preparatory School	Mrs. Zasha A. Mickey
S0434	Use of Intestinal	Scaffolding as a Pumping Assist Solution t	o Heart Failure
Second F	Place		
Noopur Ranga		Trinity Preparatory School	Mr. Michael Arney
S0435	Serves as a Dom	Spliced Form of S6K-1 Lacking the Catalyti ninant-Negative Inhibitor of mTORC1 Signa Cancer, and Cardiovascular Diseases	
Fourth PI	ace		
Senior	Earth & Enviro	onmental Sciences	
Nirja N Shah		Lake Highland Preparatory School	Mrs. Zasha A. Mickey
S0642	Studying the Effe	ects of Air Pressure on Asteroid Regolith	
Third Pla	ce		
Senior	Engineering		
Amber Z Yang		Trinity Preparatory School	Mr. Michael Arney
S0730	Multi-Orbit Space Machine Learnin	e Debris Cloud Tracking Using Iterative Clo g	osest Points Registration with
Second F	Place		
Senior	Environmenta	l Engineering	
Hamzah F Jha	veri	Lake Highland Preparatory School	Mrs. Nicole A. Justice
S0835		rocessing Techniques: Development and I in Foam and Micro-cylindrical Agarose Par	
Division (Grand Award Winne	r And First Place	
Senior	Intelligent Ma	chines, Robotics, & Systems Software	
Alexander J Ca	arnes	Lake Highland Preparatory School	Mrs. Nicole A. Justice
S0921	Fight Cyberbullyi	ng Using Key Phrase Identification Softwar	re
Honorabl	e Mention		

Mathematics & Computational Sciences

Senior

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Sumer S Sao		Trinity Preparatory School	Mr. Michael Arney
S1032	An Analysis of Op	otimal Balance in a Dynamic System	
Recogniti	ion		
Senior	Physics & Astr	ronomy	
Parker J Coye		Lake Highland Preparatory School	Mrs. Nicole A. Justice
S1233	Fabrication of Graphene	aphene Based Single Electron Transi	stor with Chemically Transferred
Honorabl	e Mention		
Senior	Plant Sciences	S	
Radhika U Des	ai	Lake Highland Preparatory School	Mrs. Zasha A. Mickey
S1327	Using DNA Barco State Park	ding to Measure the Biodiversity of M	loss Species in Wekiwa Springs

Honorable Mention

19 awards for Dr. Nelson Ying Expo - Orange Region

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East Panhandle

East Pann	andie		
Junior	Animal Science	ces	
Kadi Casey		Saint Mary Catholic School	Mrs. Laura Mcneill
J0108	Quit Horsin' Arou	ind	
Third Pla	ice		
Alexa F Drab		Okaloosa STEMM Academy	Mrs. Sarah Wilson
J0109	Neonictinoids Ro	le In Colony Collapse Disorder: Infliction or	r Fiction?
Second	Place		
Junior	Cellular/Moled	cular Biology & Biochemistry	
Maura C Liles		Saint Mary Catholic School	Mrs. Laura Mcneill
J0405	Regeneration Sta Liquids	ation: The Immune Analysis of Cell Regene	eration of Proven Healing
Honorab	le Mention		
Junior	Chemistry		
Benjamin D Ho	oman	Okaloosa STEMM Academy	Mrs. Sarah Wilson
J0509	Does Humidity A	ffect Carbon Dioxide Absorption by Polyeth	nyleneimine?
Honorab	le Mention		
Gabriel P Lern	er-Sperow	Okaloosa STEMM Academy	Mrs. Sarah Wilson
J0510	Hydrogen Produc Hydroxide	ction through Ratio Variance of Sodium Ca	rbonate and Calcium
Second	Place		
Junior	Engineering		
James Baird		C. W. Ruckel Middle School	Mrs. Scarlett Brock
J0711		oam Will Be the Most Effective at Decreas Collision to Minimize the Impact on the Brai	
Recognit	ion		
Makenzie J Ma	arez	Liza Jackson Preparatory School	Dr. Tavia Marez
J0712	Stifle the Cost of	Anterior Cruciate Ligament Kneed in Canis	s lupus familiaris
Second	Place		
Charles B She	rwin, III	Okaloosa STEMM Academy	Mrs. Sarah Wilson
J0714	For Your Ears Or	nly	
First Place	ce		
Junior	Environmenta	l Engineering	
Nicole M Terry	,	Okaloosa STEMM Academy	Mrs. Sarah Wilson
J0810	Solidification and	its Effects on Landfill Airspace	
Fourth P	lace		
Naomi E Barr		Okaloosa STEMM Academy	Mrs. Sarah Wilson
J0814	The Silent Tsuna	mi	
Recognit	ion		

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Junior	Microbiology
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Alexandra M Manion Saint Mary Catholic School Mrs. Laura Mcneill

J1103 Got Algae? Can Environmental Conditions Alter Our Global Gases, and if so, Are There
Conditions in Which a Primary Producer Can Minimize Potential Negative Effects,
therefore Aid in the Alteration of these Effects?

Third Place

Junior Physics & Astronomy

Emily S Daldine Saint Mary Catholic School Mrs. Laura Mcneill

J1217 Bubbles Continue to Implode

First Place

Senior Chemistry

Ian J Zegouros Niceville High School Mrs. Gina Emery
S0506 The Durability of Guitar Strings

Honorable Mention

Senior Engineering

Daniel C Bobbitt Niceville High School Mrs. Gina Emery

S0707 Go with the Flow - Increasing the Efficiency of the Tesla Turbine to Reduce the Cost of

Cleaner Energy Generation from Natural Gas

Fourth Place

Senior Physics & Astronomy

Camille A Miles Niceville High School Mrs. Gina Emery
S1206 Thermoelectric Generator Powered Tracking Concentrated Photovoltaic System

Division Grand Award Winner And First Place

Jackson A Cook Niceville High School Mrs. Gina Emery

S1207 Real-Life Levitation: A study of the Correlation Between a Standing Wave's Number of

Nodes and Wave Strength

Fourth Place

16 awards for East Panhandle Region

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Heartland

Junior	Animal Science	ces	
Emma R McG	Buckin	Hardee Junior High School	Mrs. Kimberly R McGuckin
J0122	Does the type of Daphnia magna?		g 9-12-12 Affect the Survival Rate of
Fourth F	Place		
Abigail Penfie		Avon Park Middle School	Mr. Steven Manley
J0123	A Comprehensiv Hives	e Look into Capturing Methods for A	Aethina Murray in <i>Apis mellifera</i>
Third Pl	ace		
Junior	Behavioral &	Social Sciences	
Devam P Pate	el	Hill-Gustat Middle School	Mrs. Tari Hornick
J0211		nsumption : More Than Meets the F ausing Cardiac Arrhythmia	leart; Public Education to Modify
Third Pl	ace		
Junior	Cellular/Moled	cular Biology & Biochemistry	
Kartik Ananth	an	Hill-Gustat Middle School	Mrs. Tari Hornick
J0411	Don't Cry Over E	xpired Milk	
Fourth F	Place		
Junior	Earth & Enviro	onmental Sciences	
Abagail L Hole	comb	Yearling Middle School	Mrs. MeLinda Gray
J0636	Algae Invasion! I chlorella	nvestigating the Effect of Fertilizer o	on the Growth of <i>Chlorophyta</i>
Third Pl	ace		
Zander R Yeo	mans	Hardee Junior High School	Mrs. Kim W Davis
J0637	Does Climate Ch Peace River?	ange Affect the Movement of Salini	ty Through the Lower Areas of the
Fourth F	Place		
Junior	Engineering		
Camila Rimol	di Ibanez	Sebring Middle School	Mrs. Donna Tomlinson
J0741	Is Your Smart Ph	one Leaking? Year 2	
Fourth F	Place		
Junior	Microbiology		
Emma G Hay	S	Hardee Junior High School	Mr. Larry McCandless
J1114	Does the OTC N Antibiotics? Year	SAID Naproxen Affect the Growth o	f Bacteria More than Various
Third Pl	ace		

Junior Physics & Astronomy

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Brin M Conerly	,	Hardee Junior High School	Mr. Larry McCandless
J1234		from Gray to Black Affect the Ability of an	•
Recognit	ion		
Senior	Cellular/Moled	ular Biology & Biochemistry	
Siddharth S Ar	anthan	Sebring High School	Mrs. Vanessa Sinness
S0418	Starbucks : The N	New BP	
Recognit	ion		
Dylan W Davis		Hardee Senior High School	Ms. Tabita Grosu
S0419		I Mixed with Cow Excreta Affect the Time Converted into Electrical Power? Year Fo	
Third Pla	ce		
Senior	Chemistry		
Cristian Rios		Okeechobee High School	Mrs. Wendy Reister
S0520	Identifying a Corr	elation between Water Quality and Socioe	economic Status
Fourth Pl	ace		
Senior	Microbiology		
Delaenam A A	kahoho	Okeechobee High School	Mrs. Wendy Reister
S1115	To Resist or Not	to Resist	
Recognit	ion		
Jackson R Dris		Hardee Senior High School	Ms. Tabita Grosu
S1116	Does the Freque	ncy of Ultrasonic Waves Affect the Growth	n of Prorocentrum?
Honorabl	e Mention		
Cady C McGel	nee	Okeechobee High School	Mrs. Wendy Reister
S1117		of Lime, Chlorhexidine Gluconate Solution oil Against <i>Mycoplasma bovis</i> in Recycled	
Third Pla	ce		
Senior	Plant Science	s	
Rohin Patel		Sebring High School	Mrs. Angela Mann
S1315	DNA Barcoding of	f Unique and Rare Plants in the Lake Wa	les Ridge

Honorable Mention

16 awards for Heartland Region

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Hernando

Junior	Animal Science	ces	
Maia Truog		Challenger K8 School of Science and Mathematics	Mrs. Jennifer Andress
J0132	Wi-Fly: The Effect Fly	t of Wi-Fi and Laptop Computer Radiation	on on the Lifespan of a House
Recogni	tion		
Emma N Rodr	iguez-Pajerski	Challenger K8 School of Science and Mathematics	Mrs. Jennifer Andress
J0134	Death of Daphnia		
Fourth P	lace		
Junior	Behavioral &	Social Sciences	
Annelise G Yo	ungblood	Challenger K8 School of Science and Mathematics	Mrs. Shone Jung
J0222	The Effect of Age	e on Lung Capacity	
Honorab	le Mention		
Junior	Earth & Enviro	onmental Sciences	
David P Marqu	uis	Challenger K8 School of Science and Mathematics	Mrs. Colleen Doulk
J0653		ental Convergent Plate Boundaries: The I unds Created by Lateral Compression	Effect of Different Materials on
Recogni	tion		
Junior	Environmenta	l Engineering	
Patrick W Syk	ora	Challenger K8 School of Science and Mathematics	Mr. Greg Shaw
J0835	Microbial Fuel Ce	ells: Better Living Through Science	
Second	Place		
Senior	Earth & Enviro	onmental Sciences	
Emily M Carr		Springstead High School	Mr. Chris Auricchio
S0638		orescent Emission Levels on the Coral Po a, Zoanthid sp., and Sympodium caerule	
Honorab	le Mention		
Senior	Environmenta	l Engineering	
Raleigh G For		Springstead High School	Mr. Chris Auricchio
S0831		dy: Deployment Method for New Artificia nserve Marine Life	I Reef Design to Effectively
Pecogni	tion		

Recognition

7 awards for Hernando Region

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Hillsborough

Fourth Place

9''		
Earth & Enviro	onmental Sciences	
Cantor	Corbett Prepatory School of IDS	Mr. Jeff Keene
The Effect of a H Estuary	urricane on the Biodiversity of Microorg	ganisms in the Tampa Bay
lace		
Environmenta	l Engineering	
N	Williams Middle Magnet School	Mrs. Judy Grieco
		for Stormwater Outfalls in the
le Mention		
Intelligent Mad	chines, Robotics, & Systems Softwa	are
	Williams Middle Magnet School	Mrs. Judy Grieco
i-Cane 2.0: Sma	rt Navigation for the Visually Impaired	
асе		
Biomedical &	Health Sciences	
m	Tampa Bay Technical High School	Mr. Bryan Kelly
		ranscription Factors and Inhibits
Grand Award Winner	And First Place	
Chemistry		
·	C. Leon King High School	Mrs. Nicole Richards-Works
Tuning Carbon D	ioxide Capture Behavior Via Ion Excha	nge in Porous Organic Polymers
ace		
Engineering		
iseaty	C. Leon King High School	Mrs. Nicole Richards-Works
		n Photocatalysis for Historical
lace		
Mathematics &	& Computational Sciences	
mpson	Strawberry Crest High School	Mrs. Dianne Schroeder
The Fourier Serie	es Applied to Florida Beach Waves	
lace		
Microbiology		
	Carrollwood Day School	Mrs. Carrie Prieto
		el System Using Beta Carotene
	Earth & Environment Cantor The Effect of a H Estuary Place Environmenta W Pollution Reducti Hillsborough Rive Die Mention Intelligent Mac i-Cane 2.0: Sma ace Biomedical & M Vitamin E Delta-t Human Pancreat Grand Award Winner Chemistry Tuning Carbon D ace Engineering iseaty Rare Earth Metal Building Preserva Place Mathematics of D mpson The Fourier Series Place Microbiology Inugnati DNA Damage Re	Earth & Environmental Sciences Cantor Corbett Prepatory School of IDS The Effect of a Hurricane on the Biodiversity of Microorg Estuary Place Environmental Engineering W Williams Middle Magnet School Pollution Reduction Analysis Utilizing Phytoremediation Hillsborough River Watershed, 2nd Year Study Place Williams Middle Magnet School Intelligent Machines, Robotics, & Systems Softwa Williams Middle Magnet School i-Cane 2.0: Smart Navigation for the Visually Impaired ace Biomedical & Health Sciences Tampa Bay Technical High School Vitamin E Delta-tacotrienol Targets Cancer Stem Cell Till Human Pancreatic Cancer Metastasis Grand Award Winner And First Place Chemistry C. Leon King High School Tuning Carbon Dioxide Capture Behavior Via Ion Exchange Engineering iseaty C. Leon King High School Rare Earth Metal Doped Titanium Dioxide Upconversion Building Preservation Applications Place Mathematics & Computational Sciences Impson Strawberry Crest High School The Fourier Series Applied to Florida Beach Waves Place Microbiology

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Senior	Physics & Astr	onomy	
Jack Morrison		Strawberry Crest High School	Mr. Jonathan Ferrer
S1228	Fluid Dynamics and Hurricane Katrina		
Fourth Pla	ace		
Senior	Plant Sciences	3	
Miranda Bihler		Durant High School	Dr. Megan Faliero
S1320	How Does Artificial Light Color Affect the Amount of Oxygen Produced in the Photosynthesis Process by Elodea Plants?		

Honorable Mention

10 awards for Hillsborough Region

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Indian River

Junior	Animal Science	ces	
Kiran S Arain		Saint Edwards School	Mr. Karl Leonhardt
J0118	The Effect of End benjamina	carsia protransvena on Singhiella simpl	ex Populations Infesting Ficus
Second F	Place		
Lucy E Long		Storm Grove Middle School	Mrs. Joan Martinelli
J0119	Can Glucono De the Immune Syst	Ita Lactone Improve the Efficacy of Metalem of Termites?	arhizium anisopliae by Inhibiting
Fourth PI	ace		
Abby O Stenn		Gifford Middle School	Mrs. Melissa Sleeper
J0120	The Efficiency of	Neem oil Against the Vectors of Zika, C	Chikungunya, and Dengue Virus
Fourth PI	ace		
Junior	Behavioral &	Social Sciences	
Sarah A Bickel		Storm Grove Middle School	Mrs. Joan Martinelli
J0209	A Stroop Effect T	est: Will Experienced Teachers Perforn	n Better When Pressed?
Second F	Place		
Junior	Earth & Enviro	onmental Sciences	
Ellie M Schrock	<	Saint Edwards School	Mr. Karl Leonhardt
J0661	Stop the Leach		
Third Pla	ce		
Junior	Engineering		
James R Elford	d, IV	Sebastian Charter Junior High School	Mrs. Christina Brako
J0725	Cool Supercharg	ed Sunlight	
Third Pla	ce		
Andy J Henriqu		Storm Grove Middle School	Mrs. Carlean Browning
J0726	The Golf Airfoil		
Fourth PI	ace		
Junior	Physics & Ast	ronomy	
Zachary C Hes	sler	Gifford Middle School	Mrs. Melissa Sleeper
J1229	Save Our Silence	e: A Digital Approach to Reducing Noise	e Pollution
First Plac	e		
Senior	Animal Science	ces	
William L Johns	son	Saint Edwards School	Dr. Kerryanne Monahan
S0115	Migratory Passer	rines' Usage of Australian Pine	
Third Dia			

Third Place

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Sana Shareef		Saint Edwards School	Dr. Kerryanne Monahan
S0132			a Repellant for the Invasive Sri Lankan Marshall (Coleoptera: Curculionidae:
Fourth P	ace		
Senior	Biomedical &	Health Sciences	
Olivia J Lazoril	<	Saint Edwards School	Dr. Kerryanne Monahan
S0336		ting Neurodegenerative Diseas or and Regeneration of <i>Duges</i>	ses: The Effect of Caffeine on the ia tigrina (Brown Planaria)
Fourth P	ace		
Senior	Earth & Enviro	onmental Sciences	
Spencer J Toll		Vero Beach High School	Mrs. Heather Holden
S0648	Indium Prospecti	ng Using Neural Nets	
First Plac	ce		
Joshua L Tuck		Vero Beach High School	Mrs. Heather Holden
S0648	Indium Prospecti	ng Using Neural Nets	
First Place	ce		
Senior	Environmenta	l Engineering	
Omar Shareet	:	Saint Edwards School	Dr. Kerryanne Monahan
S0838	The Creation of a Regeneration Sy		_l uatic Vehicle, Powered by a Novel Power
Second F	Place		
Senior	Microbiology		
Griffin M Wagr	ner	Vero Beach High School	Mrs. Heather L. Holden
S1112		nergistic Relationships of Envir of <i>Anabaena variabilis</i>	onmental Salinity and Nitrate Levels on
Second F	Place		
Senior	Physics & Ast	ronomy	
Sarah M Weya	ind	Vero Beach High School	Mrs. Heather L. Holden
S1219	Aliens and Explo	sions: How Supernovae Affect	the Habitable Zones of Exoplanets
Second F	Place		
Senior	Plant Science	S	
Alexi K Dong		Indian River Charter High School	
S1312		culture: The Effect of Varying e Growth of <i>Lactuca sativa</i>	Electrical Voltage, Duration, and
Recognit	ion		

Recognition

17 awards for Indian River Region

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Lake

Junior	Plant Sciences	5	
Marissa Golen	า	Imagine South Lake Charter School	Mrs. Korrin Dykhouse
J1321	The Effects of Cr	o-Freezing on Seeds	
Second I	Place		
Senior	Mathematics &	Computational Sciences	
Evan J Kirby		East Ridge High School	Mr. Alec Lockhart
S1013	A Novel Solution	for Integer Factorization with Cryptog	raphic Applications

Recognition

2 awards for Lake Region

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Lockheed Martin Manatee

Junior	Engineering		
Maxwell C Fletcher		Braden River Middle School	Mrs. Jennifer Hall
J0737 Strongest of the S		Strong: A Study of Structural Efficiency of Two Truss Bridges	
Honorable Mention			
Junior	Microbiology		
Stephanie A Bobrek		Martha B. King Middle School	Mr. Shane Edelkind
J1112	The Major Glow I	Jp: Bioluminescent Algae	

Honorable Mention

Senior Environmental Engineering

Anna M Zimmerman

Braden River High School

Ms. Marybeth Witham

S0826

A Solar Powered Method of Extracting Drinking Water from the Air

Honorable Mention

Senior *Mathematics & Computational Sciences*

Emma A Johnston Manatee High School Ms. Patricia L. Zalo S1021 Hardy-Weinberg Principle: What Population Size Is Large Enough?

Recognition

4 awards for Lockheed Martin Manatee Region

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Martin

Junior	Biomedical &	Health Sciences	
Kyle T Ramos	3	Saint Joseph Catholic School	Mrs. Norma Kuehn
J0336	The Effect of Ene	ergy Drinks on the Cardiovascular System	
Honoral	ole Mention		
Junior	Engineering		
Viraj Singh		Dr. David L. Anderson Middle School	Mrs. Linda J. Stitely
J0739	Cellphone Radia	tion-Shields Up!	
Third Pla	ace		
Steven C Vok	oun	Murray Middle School	Mrs. Michele Jerrells
J0740	Cones are No Lo	nger Just for Ice Cream	
Second	Place		
Junior	Physics & Ast	ronomy	
Gisele C Crar	у	Saint Joseph Catholic School	Mrs. Norma Kuehn
J1243	Does the Sun Ro	otate?	
Honoral	ole Mention		
Senior	Animal Science	ces	
Shantanu S J	akhete	South Fork High School	Mr. Marc Turull
S0126	Sustainable Mos Aedes aegypti, A	quito Control: A Chemical-free, Low-Cost Vector of Zeka	Approach for Controlling
Division	Grand Award Winner	And First Place	
Senior	Engineering		
Caroline G No	olan	Clark Learning Center	Ms. Jennifer Bartow
S0726	ESPERER (Ecor Results)	nomic System Producing Energy Resource	es and Environmental
Fourth F	Place		
Senior	Intelligent Mad	chines, Robotics, & Systems Software	
Varun A Laks	hmanan	South Fork High School	Mr. George Fountoulakis
S0919	A Novel iOS App	lication : Measuring Blood Speed of the R	adialis Indicis Artery

Fourth Place

7 awards for Martin Region

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Monroe

Junior	Environmental	Engineering		
Emma K Kost		Treasure Village Montessori School	Mrs. Bobbi Burson	
J0819	Organic Growth in	anic Growth in the Underwater Region on Construction Materials		
Honorabl	e Mention			
Junior	Plant Sciences	5		
Bodie C Robbii	ns	Treasure Village Montessori School	Mrs. Bobbi Burson	
J1318	Withering Weeds			

Recognition

2 awards for Monroe Region

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Northeast Florida

l	Amino al Oai		
Junior	Animal Science		
Liam H Hughes		Kirby Smith Middle School	Ms. Melanie Boyer
J0114	Ellects of Noise	Pollution on Hatching Rate of Brine Shrimp	
	e Mention		
Joel Valan		Darnell Cookman Middle/High School of Medical Arts	Ms. Madge Nanney
J0115	Preventing Zika: Mosquito Larvae	The Effect of the pH of Water on the Grow	th and Survivability of
Third Plac	ce		
Junior	Biomedical &	Health Sciences	
Izabelle J Your	ıg	San Jose Catholic School	Mr. Patrick Madigan
J0315	Solving the Biolo	ad of Xerostomia	-
Second F	Place		
Junior		cular Biology & Biochemistry	
Grace M Frazie		San Jose Catholic School	Mr. Patrick Madigan
J0407		es of Kitchen Knives Affect the Amount of	-
J040 <i>1</i>	Gluten?	es of Nitorien Nilves Affect the Affective of	Oross-Contamination of
Recogniti	on		
Junior	Chemistry		
Megan S Erne		San Jose Catholic School	Mr. Patrick Madigan
J0514	The UV and Sun	screen Battle	
Fourth Pl	ace		
Junior	Earth & Enviro	onmental Sciences	
Andrew J Hork	an	San Jose Catholic School	Mr. Patrick Madigan
J0625	Converting Yard	Waste and Paper into Clean Energy	
First Plac			
Juliana R Name		San Jose Catholic School	Mr. Patrick Madigan
J0626	The Effect of Bio Water	adsorbent Materials on the Concentration	of Heavy Metals in River
Second F	lace		
Jasmine Ronce	evic	Julia Landon College Preparotory Middle School	Mr. Daniel Geary
J0627	Biodegradation of	of Polystyrene by <i>Tenebrio molitor larvae</i>	
Second F	Place		
Junior	Engineering		
Liam X Leahy		Holy Family Catholic School	Mrs. Yanny Salom
J0720	Designing a Buo	yant Wind Turbine Platform	-
Recogniti			
Necognili	OH		

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Junior Intelligent Machines, Robotics, & Systems Software Julia Landon College Preparotory Middle John Blake Caven Mrs. Pamela Smith School Athletic Drones? The Effect of Autonomous Algorithms on Robotic Intelligence J0910 Third Place **Junior** Physics & Astronomy Jack W Brophy San Jose Catholic School Mr. Patrick Madigan Using Body Heat to Create Electricity J1224 Second Place **Junior** Plant Sciences Mailene G Miranda Saint Joseph Catholic School Mrs. Lizette Woodward What Makes Science A-Peel-ing: Tensile Strength of Banana Fibers J1317 Third Place **Senior Animal Sciences** William G Canty Bishop John J. Snyder High School Mr. Joseph Waas The Effects of Genetic Mutation and Aspartame Exposure on Drosophila melanogaster S0111 Olfactory Response Fourth Place Katelyn S Nicholson Episcopal School of Jacksonville Mrs. Marion Zeiner Analyzing the Correlations Between Genetically Modified Soybean Oil and the S0112 Development of Gallus domesticus Embryos Fourth Place James A Staman The Bolles School Dr. Kathryn Halloran Blue Light Effect Study-Impact on Drosophila's Cognitive Abillity and Changes in Gender S0135 Ratios Honorable Mention Senior Biomedical & Health Sciences Episcopal School of Jacksonville Lindsay S Poulos Mrs. Marion Zeiner The Effects of Secondhand E-Cigarette Vapor on Drosophila melanogaster S0316 Second Place Senior Cellular/Molecular Biology & Biochemistry Caroline E Anderson Episcopal High School of Jacksonville Mrs. Marion Zeiner The Effects of pH on Antigen-Antibody Interactions in Saline Agar S0412 Fourth Place Grant B Szymanski The Bolles School Dr. Kathryn Halloran

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The Effect of Cell Phone EMR on Bioluminescence

S0413

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Honorable Mention

Honghao Zhu		Episcopal School of Jacksonville	Mrs. Marion Zeiner
S0414	Exploration of Se	rum-based Biomarkers of Benign versus N	Malignant Renal Masses
Honorabl	e Mention		
Senior	Chemistry		
Zhaoxian Zhan	g	Episcopal School of Jacksonville	Mrs. Marion Zeiner
S0514	Aluminum Recov	ery in Al-Air Primary Batteries for Innovati	ve Fuel Cell Design
Fourth Pl	ace		
Senior	Earth & Enviro	onmental Sciences	
Graham P Ung	rady	The Bolles School	Dr. Kathryn Halloran
S0647	Comparing Viabil	ity and Photosynthetic Capability of Algae	Cultures Versus Algae Beads
Second F	Place		
Senior	Engineering		
Tara M Martin		Episcopal School of Jacksonville	Mrs. Marion Zeiner
S0712		mechanical Energy Harvesting Using Direction good to Power Wearable Biometric Devices	ct Impact and Contactless
Recogniti	on		
Devanik Biswa	S	Stanton College Preparatory School	Ms. Tamla Simmons
S0735	Fabrication of a N System	Novel Nanoporous Hybrid and Multi-layer N	Membrane for a Drug Delivery
Third Place	ce		
Senior	Environmenta	l Engineering	
Sneha Reddy		The Bolles School	Dr. Kathryn Halloran
S0812	Introduction of My Phosphorous Fer	ycorrhizae into Non-Mycorrhizal Plants: A tilizer	Model to Reduce
Third Place	ce		
Ann M Walton		The Bolles School	Dr. Kathryn Halloran
S0812	Introduction of My Phosphorous Fer	ycorrhizae into Non-Mycorrhizal Plants: A tilizer	Model to Reduce
Third Place	ce		
Senior	Microbiology		
Shreyas K Che	tan	The Bolles School	Dr. Kathryn Halloran
S1107	Finding Optimal (Streptococcus py	Concentrations and Solvents for Turmeric- cogenes	A Fight against
Fourth Pl	ace		
Kathleen M Mc		Bishop Kenny High School	Mrs. Victoria Schmitt
S1108	Sterilization of Ba	acteria on Restaurant Menus to Reduce Ci	ross Contamination
Fourth Pl	ace		

Senior Physics & Astronomy

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Kavitha Vudatha		Stanton College Preparatory School Ms. Tamla Simmons		
S1214	Low Cost Patient	-Nurse Communication System		
Fourth F	Place			
MaryAlice D Young		Bishop Kenny High School	Mrs. Victoria Schmitt	
S1215	o ,	Using a System of Electromagnetic Fields to Create a Cumulative Force that Simulates the Effects of Earth's Gravity in Outer Space		
Second	Place			
Senior	Plant Science	s		
Hannah N Lee	e	The Bolles School	Dr. Kathryn Halloran	
S1307	Effectiveness of	Water Hyacinth as a Fertilizer on Basil Growth		

Fourth Place

30 awards for Northeast Florida Region

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Osceola

Junior	Earth & Envir	onmental Sciences	
Donovan R	R Bohanan	Neptune Middle School	Mr. John Prow
J0612	Water Works: Ho	ow Does Water Treatment Affect W	ater Quality?
Reco	gnition		
Junior	Engineering		
Madeline J	Perry	Neptune Middle School	Mrs. Patricia Stacy
J0703	Lift vs Drag: Whi	ch Airfoil is the Most Efficient and H	Has the Greatest Lift?
Reco	gnition		
Junior	Mathematics	& Computational Sciences	
Noah B Je	enkins	Neptune Middle School	Mrs. Allyn Short
J1004	Windows for Tho	ought!	
Fourt	h Place		
Arseny E K	Cuzmin	Celebration K-8 School	Mrs. Denise Kanner
J1005	Foams and Spor	nges: Surface Density Study	
Hono	rable Mention		
Sophia M 2	Zavada	Celebration K-8 School	Mrs. Denise Kanner
J1005	Foams and Spor	nges: Surface Density Study	
Hono	rable Mention		
Junior	Physics & Asi	ronomy	
Samuel R I	Lewis	Celebration K-8 School	Mrs. Denise Kanner
J1208	Reach for the Sk	y! The Impact of Length vs Weight	on Rocket Launch Altitude

Fourth Place

6 awards for Osceola Region

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Palm Beach

T all II Deach	 		
Junior	Animal Science	ces	
Zoe R Krishtul		The Weiss School	Mr. Kevin Simmons
J0101	The Effect of Des	siccation on Cold Tolerance in Tardigrades	3
Honorable	e Mention		
Junior	Behavioral &	Social Sciences	
Helen F. Peluso		Alexander D. Henderson University School	Ms. Suzette Milu
J0201		Decision to Take a Risk That Benefits a Te rported Teammates Performance?	am be Influenced by Limiting
First Plac	e		
Junior	Biomedical &	Health Sciences	
Nikita R Tangut	turi	Bak Middle School of the Arts	Mrs. Rhonda Steinmetz
J0303	Jump and Shoot:	Measuring the Amount of Stress on the P	atellar Tendon
Third Place	ce		
Junior	Chemistry		
Austin D Stein		Eagles Landing Middle School	Ms. Kim Mercurio
J0501	Electrolyte Dispu	te	
Honorable	e Mention		
Junior	Earth & Enviro	onmental Sciences	
Ryan F Hoffma	an	Arthur I. Meyer Jewish Academy	Mrs. Judith Edelman
J0601	Is E85 More Effic	ient and More Eco-Friendly than Regular	Gasoline?
Third Place	ce		
Junior	Engineering		
Marts A Purins		The Weiss School	Mr. Kevin Simmons
J0701	The Effects of At	tack Angle and Windspeed on Lift for Diffe	rent Airfoils
Recogniti	on		
Junior	Intelligent Mad	chines, Robotics, & Systems Software	
Ward C Genow	ay	IDEAL School of Advanced Learning	Ms. Rebecca Clark
J0901	Using Drone Tec Zone Navigation	hnology to Detect Improvised Explosive D	evices in Emergency Combat
Fourth Pla	ace		
Junior	Mathematics of	& Computational Sciences	
Victoria K Cros		The Weiss School	Mr. Kevin Simmons
J1001	Impacts of Algae	Feedstuff Substitutions on a Simulated Ho	olstein Milking Herd

Fourth Place

Junior Physics & Astronomy

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Hannah S Fein	~	Loggers' Run Middle School	Mr. James Byrd
J1201	Studying Chirality	with a Homemade Polarimeter	
Fourth PI	ace		
Junior	Plant Sciences	S	
Sam A Hazam	у	Alexander D. Henderson University School	Ms. Suzette Milu
J1344	Does Water Hyac	sinth Limb Removal Percentage Effect the	Plant's Growth Rate?
Second F	Place		
Senior	Animal Scienc	es	
Ayse S Demiro	an	Florida Atlantic University High School	Dr. Tricia Meredith
S0102	Elasmobranch Ol	factory Organ Morphology	
Second F	Place		
Jessica Young	1400	Palm Beach Central High School	Mr. William Bartenslager
S0103	Synthesis of a So	y Protein Hydrogel for Invasive Snail Cont	trol in Agricultural Settings
Third Pla	re		
Daniel A Clein		Wellington Community High School	Mr. Jay Labossiere
S0136	Comparative Mos	quito Larval Bioassays	•
Fourth Pl	ace		
Senior	Biomedical & I	Health Sciences	
Ray Jia	210111041041	Alexander W. Dreyfoos School of the Arts	Mr. Stephen Anand
S0301		ution Autophagy in Chemosensory Neuror lated by Insulin-like Signaling in <i>Caenorha</i>	ns is Essential for Lipid
Second F	Place		
Deandra Willia		Palm Beach Central High School	Mr. William Bartenslager
S0303	The Role of Crum melanogaster	nb Rubber as a Mutagen and Neurological	Disruptor in <i>Drosophila</i>
Fourth PI	ace		
Srijith K Nair		American Heritage School of Boca/Delray	Mrs. Iris Thompson
S0304	Antibiotic Propert	ies of <i>Moringa olieifera</i> to Combat Superb	ugs!
Third Pla	ce		
Senior	Cellular/Molec	ular Biology & Biochemistry	
Chevara Josep	h	Florida Atlantic University High School	Dr. Tricia Meredith
S0437	Loss of Neurofibro	omin During Development Increases Groo	oming in <i>Drosophila</i>
Recognit	ion		
Senior	Chemistry		
Jorgi Mandelba		Spanish River Community High School	Ms. Mary Fish
S0501	Fruits Fight Free Through Oscillatin	Radicals: Antioxidant Ability in Fruits: Holding Reactions	ling Off Free Radicals
Recognit	ion		
Senior	Earth & Enviro	nmental Sciences	

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Jonathan C Ch	in Cheong	Florida Atlantic University High School	Mrs. Robin Barkes
S0601	Quantification of	cotoxicity of Impermeable Surfaces to Imp Low Impact Developmental Design Efficie halt Substrate with Functionalized Polluta	encies and Synthesis of an
Fourth Pla	ace		
William Z Gao		Suncoast Community High School	Mr. Jeffrey Laufer
S0602	Stormwater Treat	tment Area Performance Prediction Using	g Artificial Neural Network
Third Place	ce		
Celinie M Nguy	en	Palm Beach Central High School	Mr. William Bartenslager
S0646		, Water Pollution Prevention, and Soil Sta oluble and Insoluble Nanocomposite Hyd	
Honorable	e Mention		
Senior	Engineering		
Hannah D Herb	ost	Florida Atlantic University High School	Mrs. Robin Barkes
S0701	Protecting Civilia for Airborne Cher	ns and Public Service Personnel through micals: SEIAC	an Early Identification System
Third Plac	ce		
Richard G Leor	nard	American Heritage School of Boca/Delray	Mrs. Iris Thompson
S0702	Busting Barnacle	s	
Fourth Pla	ace		
Senior	Environmenta	l Engineering	
Vithulan Suthal	karan	Florida Atlantic University High School	Mrs. Robin Barkes
S0801		ne Development of a Sustainable Environ of Marine Pollution from a Variety of Geog	
Fourth Pla	ace		
Stefan Wan		Alexander W. Dreyfoos School of the Arts	Mr. Michael Rathe
S0802	Functionalizing B Nitrate from Aque	iochar with Layered Double Hydroxides fo eous Solutions	or Removal of Phosphate and
Second P	Place		
Senior	Intelligent Mad	chines, Robotics, & Systems Software)
Alexis M Base		Florida Atlantic University High School	Mrs. Robin Barkes
S0901		sive Species; Developing an Inexpensive dentification and Eradication of Species S	
Fourth Pla	ace		
Rishu Mohanka	1	Suncoast Community High School	Mr. Jeffrey Laufer
S0902	A Novel Computa Heart Attacks	ational Method for Early Detection of Cord	onary Artery Disease and
Honorable	e Mention		
•			

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Senior *Microbiology*

Jason A Krist	ol	Spanish River Community High School	Ms. Mary Fish
S1101	Placing the Misp	laced <i>Purpurea</i>	
Recogn	ition		
Elena Lopez-	Belio	American Heritage School of Boca/Delray	Mrs. Iris Thompson
S1102	Plastic Drinking I	Bottles: A Haven for Microbial Growth	
Recogn	iition		
Senior	Plant Science	s	
Andrew Philli	ps	Seminole Ridge High School	Mrs. Lyn Slygh
S1302	Cultivation of Lo	ium multiflorum in Martian Soil	

Fourth Place

30 awards for Palm Beach Region

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Pasco

Junior	Engineering		
Victoria N Pere		Centennial Middle School	Mrs. Jennifer Kaylor
J0718	Wonderful Wind	Turbines	
Fourth Pl	ace		
Junior	Environmenta	l Engineering	
Charles E Reed	dy	Crews Lake Middle School	Ms. Laura Hull
J0812	Clean Energy So	urces	
Third Place	ce		
Madeline M Mu	ırch	Charles S. Rushe Middle School	Mrs. Jennifer Yasurek- Dingman
J0813	Blankets for the I	Minimization of Heat Loss and Evaporation	
Fourth Pl	ace		
Junior	Physics & Ast	ronomy	
Sarah A Menar	d	Charles S. Rushe Middle School	Ms. Joyce Naar
J1221	How Particle Size by a Meteor Impa	e or Surface Terrain Affects the Amplitude act	of Seismic Waves Produced
Second F	Place		
Junior	Plant Science	s	
Lucien L Brune	lle	Bishop Larkin Catholic School	Sr. Ogechi Offurum
J1312	The Effect of Alle	lopathy on Bean Seed Germination	
Fourth Pl	ace		
Senior	Biomedical &	Health Sciences	
Chase A Olivar	nti	Wiregrass Ranch High School	Mr. Branden L. Anglin
S0310	How does N-Ace cerevisiae?	tyl-5-Methoxytryptamine affect Cellular Re	spiration in Saccharomyces
Recogniti	on		
Senior	Chemistry		
Sreten Dedic		J.W. Mitchell High School	Mr. Ed Braddy
S0508	Investigating Nev	w Methods of Noninvasive Glucose Monitor	ring
Recogniti	on		
Senior	Mathematics	& Computational Sciences	
Anmol Warmar		Academy at the Lakes	Mrs. Colleen McCormick
S1005	Through an Adam Networks, to Ana	el Gene Candidates (MEF2A, LTA, LGALS2 otive Genetic Algorithm, Support Vector Clu llyze in a Learning Classifier System for a l emic Heart Disease	uster, and Dynamic Bayesian
Third Place	ce		

Senior Physics & Astronomy

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Roshan Warman Academy at the Lakes Mrs. Colleen McCormick S1209 Cantilever Dynamics and Optimization in Atomic Force Microscopy

Honorable Mention

9 awards for Pasco Region

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Pinellas

Junior	Behavioral & S	Social Sciences	
Ria M Patel		Plato Academy Tarpon Springs	Mrs. Jill Keller
J0214	How Does the Ty Students?	pe of Music Playing in the Background Affo	ect Short Term Memory in
Third Pla	ace		
Junior	Biomedical &	Health Sciences	
Kaitlynn A Var	ga	Cathedral School of Saint Jude	Mrs. Joanne Bujak-Dominiak
J0328	Iron Content in C	onventional Cereals	
Recogni	tion		
Junior	Earth & Enviro	onmental Sciences	
Tori E Epperso	on	Saint Cecelia Interparochial School	Ms. Heather Manter
J0622	Does Garbage A	ffect the Process of Echo Transmission?	
Honorab	le Mention		
Gabrielle Gran	nt	Saint Cecelia Interparochial School	Ms. Heather Manter
J0643	Putting the Brake Front of the Storn	s on Stormwater! What Is the Best Method nwater Drain?	I to Prevent Sand Buildup in
Recogni	tion		
Junior	Intelligent Mad	chines, Robotics, & Systems Software	
Justin Ming		Saint Cecelia Interparochial School	Ms. Heather Manter
J0915	The Arduino, GP	S, Iridium Transmitting and Location Device	e (AGITLD)
Honorab	le Mention		
Senior	Biomedical &	Health Sciences	
Matthew Dicke	ens	CAT/ Lakewood High School	Mr. Paul H. Dickman
S0337	Analysis of Footb	all Helmet Safety	
Recogni	tion		
Senior	Chemistry		
Tiffani Byun		Indian Rocks Christian School	Mrs. Tracy Springman
S0509	Using a Microbial	Fuel Cell to Create Electricity from Mud	
Honorab	le Mention		
Senior	Physics & Ast	ronomy	
Senior Hannah T And		ronomy Indian Rocks Christian School	Mr. Ben Futoran
	lerson		

Recognition

8 awards for Pinellas Region

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	D	ı	k
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Junior	Biomedical &	Health Sciences	
Matthew Werd		Resurrection Catholic School	Mrs. Lisa Schaal
J0338	Brain Pain!		
Division	Grand Award Winner	And First Place	
Junior	Chemistry		
Zoe A Parker		Lakeland Highlands Middle School	Ms. Judy Thomas
J0535	Water and Electr	icity DO Mix	
Second I	Place		
Junior	Engineering		
Matthew G Gra	aham	Berkley Accelerated Middle School	Mrs. Leslie Widner
J0742	Generating Elect	ricity from the Pressure of Natural Falling V	Vater
Fourth P	lace		
Junior	Intelligent Mad	chines, Robotics, & Systems Software	
Breanna K Nev	wberg	Lakeland Christian School	Mrs. Jennifer Canady
J0921	Push it: Designin	g and Programming a Robot to Push A Bu	tton - Year II
Recognit	ion		
Senior	Chemistry		
Jasper L Mont	gomery	Bartow High School - IB	Ms. Debbie Kennon
S0531	An In Silico and I Ablation of Cance	n Vitro Study of Gold Nanoparticle Aggreger Per Cells	ates for Photothermal
Second I	Place		
Senior	Engineering		
Grayson L Hur	ntsinger	Lakeland Grace Academy	Mr. Blake Donaldsoon Monroe
S0731	Mission To Mars: System with Rad	Designing a Spacecraft Impact Protection iation Shielding	and Leak Detection
Division	Grand Award Winner	And First Place	
Senior	Environmenta	l Engineering	
Jacob S Butch	er	Polk Pre-Collegiate Academy	Mr. Auburn Thompson
S0830	The Energy Sour	ce of the Future: Research on the Efficience	cy of Photovoltaic Panels
	le Mention		
James Puente		Polk Pre-Collegiate Academy	Mr. Auburn Thompson
S0830	The Energy Sour	ce of the Future: Research on the Efficience	cy of Photovoltaic Panels
Honorab	le Mention		
Jose G Quinta	nilla	Polk Pre-Collegiate Academy	Mr. Auburn Thompson
S0830	The Energy Sour	ce of the Future: Research on the Efficienc	cy of Photovoltaic Panels
Honorab	le Mention		

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Senior	Mathematics &	Computational Sciences	
Manning Chuor		Bartow High School - IB	Ms. Debbie Kennon
S1024	X Degree		
Honorable	Mention		
Xuanhao Shi		Bartow High School - IB	Ms. Debbie Kennon
S1024	X Degree		
Honorable	Mention		
Grady G Daniels	3	Bartow High School - IB	Ms. Debbie Kennon
S1025	An Exploration in	Textual Analysis	
Fourth Pla	се		
Senior	Microbiology		
Prerna Ravinde	٢	Bartow High School - IB	Ms. Ashley McCabe
S1127	Prevention is Bett	er than a Cure	
Third Plac	e		
Senior	Physics & Astr	onomy	
Austin R Bantta	ri	Central Florida Aerospace Academy of Kathleen High School	Mr. Justin Talley
S1229	Linear Aspects- E Generation	xploring the Relationship between Aircraft	Wing Aspect Ratio and Lift
Third Plac	e		
Senior	Plant Sciences	3	
Julia G Canady		Lakeland Christian School	Mrs. Jennifer Canady
S1323	Weed Warfare: In	vestigating Allelopathy - Year 7	

Third Place

15 awards for Polk Region

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Sarasota

Junior	Biomedical &	Health Sciences	
Sonica Prakash	1	Pine View High School	Mr. Edwin Stumpf
J0304	Developing a Me	edical Algorithm for Pharmacogenomics and	d Personalized Medicine
Fourth Pla	ace		
Junior	Chemistry		
Gavin E Putna	I	McIntosh Middle School	Ms. Dorothy Rieger
J0502	The Best Offens	e is a Diaper Defense	
Third Place	ce		
Junior	Earth & Envir	onmental Sciences	
Kassandra L G	reenan	McIntosh Middle School	Ms. Dorothy Rieger
J0604	Plant Filtration		
Fourth Pla	ace		
Senior	Behavioral &	Social Sciences	
Savannah M Jo	ordan	Sarasota High School	Mr. Andrew Harshman
S0202	Testing the Effect	cts of Traumatic Brain Injury on <i>Drosophila</i>	melanogaster
Third Place	ce		
Senior	Biomedical &	Health Sciences	
Teerth P Patel		Sarasota High School	Mr. Andrew Harshman
S0305	The Effects of Te	emperature on Synovial Fluid Viscosity via	Magnetic Particle Translatior
Third Place	ce		
Senior	Cellular/Mole	cular Biology & Biochemistry	
Codi J Elliott		Sarasota High School	Mr. Andrew Harshman
S0403	Modifying Substr	ate Mechanics to Engineer an <i>in vitro</i> Tum	or Microenvironment
First Plac	е		
Senior	Engineering		
Kathryn E Sava	age	Sarasota High School	Mr. Andrew Harshman
S0703	Alzheimer's Trea	itment: Solubilized-Curcumin via Buccal Pa	tch
Second P	Place		
Senior	Microbiology		
Kathryn L Richa	ards	Sarasota High School	Mr. Andrew Harshman
S1103		tinol, Thiamine, Ascorbic Acid, and Choleca Neuron Corotic Mouse Stem Cells	alciferol on the Regeneration
Third Place	<u>-</u>		

Third Place

8 awards for Sarasota Region

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Seminole

Junior	Behavioral &	Social Sciences	
Jay D Nibhanu	pudy	Sanford Middle School	Mr. Brandon Van Nuys
J0216	Do You See Wha	it I Smell?	
Fourth P	lace		
Laura E Darty		Saint Luke's Lutheran School	Mrs. Kelly Weeks
J0217	Change Your For	nt, Change Your Future: The Effects of Fo	nt on Memorization
Second F	Place		
Junior	Cellular/Moled	cular Biology & Biochemistry	
Deepika Kanna	an	Sanford Middle School	Ms. Cody Dulaney
J0417	Antioxidants in F	ood: A Second Year Study	
Third Pla	ce		
Junior	Chemistry		
Emily M Gross	~	Saint Luke's Lutheran School	Mrs. Kelly Weeks
J0526	Print vs Nature		
Fourth P	lace		
Junior	Earth & Enviro	onmental Sciences	
Justin W Richt	ourg	Saint Luke's Lutheran School	Mrs. Kelly Weeks
J0648	Mosquito Lagoor	Water Quality	
Fourth P	lace		
Junior	Environmenta	l Engineering	
Krithika Subrai	manian	Sanford Middle School	Mrs. Jacqueline Hepp
J0839	The Light that Dr	ves You	
Third Pla	ce		
Junior	Microbiology		
Elise R Corley		Indian Trails Middle School	Ms. Nicole Gonzalez
J1113	Which Destroys I	More Bacteria: Synthetic or Natural Antibio	tics?
Recognit	ion		
Junior	Physics & Ast	ronomy	
Annika M L Va	idyanathan	Sanford Middle School	Ms. Cody Dulaney
J1242	Can We Have So	ome Quiet Please? The Effects of Shape a	nd Profile on Noise!
Third Pla	ce		
Junior	Plant Science	S	
Laboni Santra		Jackson Heights Middle School	Ms. Natalie Keene-Krops
J1330	FITC and Glucos	amine Tracing Therapeutics in Leaf Using	·
Honorab	le Mention		

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Senior	Animal Science	ees	
Benjamin G Sh	irey	Oviedo High School	Mr. William Furiosi
S0125	Predatory Chrom	atophore Response of Octopus <i>Filosus</i> on	Unfamiliar Prey Items
Recogniti	on		
Senior	Behavioral &	Social Sciences	
Samuel D Nara	anjo	Paul J. Hagerty High School	Mrs. Sarah Evans
S0222	Effects of Anxiety	and Identity Development on Moral Consi	istency
Third Pla	се		
Sapna K Patel		Oviedo High School	Mr. William Furiosi
S0228	Kemotions - Keys	s to Emotional Cues	
First Plac	e		
Senior	Earth & Enviro	onmental Sciences	
Nidhi Ohri		Seminole High School	Ms. Ramsey Robinson
S0645		ynthesis: Investigating the Potential of Sing ells with the Use of a Catalyst Mixture as a ction - Year 4	
Fourth PI	ace		
Senior	Intelligent Mad	chines, Robotics, & Systems Software	
Aidan F Ryan		Paul J. Hagerty High School	Mrs. Sarah Evans
S0918	Computer Vision	as a Flight Stabilization System for Autono	omous UAVs
Second F	Place		
Senior	Mathematics of	& Computational Sciences	
Jonathan P Se	pulveda	Paul J. Hagerty High School	Mrs. Sarah Evans
S1022	•	eural Networks to Predict Minimum Inhibito otics Against <i>E. coli</i> and <i>X. alfalfae</i>	ry Concentration of
Fourth PI	ace		
Mitchell A Ham	mack	Oviedo High School	Mr. William Furiosi
S1023	Early Skin Cance	er Detection Using Convolutional Neural Ne	etworks - Year Two
First Plac	e		
Senior	Microbiology		
Samantha L Ba		Paul J. Hagerty High School	Mrs. Sarah Evans
S1125	The Effects of Mu	ulti-Walled Carbon Nanotubes (CNT) on the	e Viability of <i>Euglena gracilis</i>

Honorable Mention

17 awards for Seminole Region

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South Florida

Junior	Biomedical &	Health Sciences	
Cecilia T Suare	Z	George Washington Carver Middle School	Mrs. Bertha Vazquez
J0314	Honey Bee Good	I	
Third Place	се		
Junior	Earth & Enviro	onmental Sciences	
Michael N Odze	er	Highland Oaks Middle School	Mr. Julio Miguez
J0624		Habitat use of <i>Chelonia mydas</i> using Dror efuge Build on Ideal Free Distribution Theo	
Recogniti	on		
Junior	Environmenta	l Engineering	
Jakob L Gunde	rsen	George Washington Carver Middle School	Mrs. Bertha Vazquez
J0815	A Green Light to	Free Power	
Fourth Pla	ace		
Isabela V Perd	lomo	Norman S. Edelcup Sunny Isles Beach K-8	Mr. Daniel Goodfriend
J0816		Community School Part 2 An Environmentally Friendly Meth oving the Quality of Our Waterways Using	
First Plac	e		
Dana Sapir		Aventura City of Excellence School	Ms. Lindsey B. Cohen
J0817	The Solar Secret	of Fibonacci's Tree	
Fourth Pla	ace		
Jordan M Umla	S	Nautilus Middle School	Dr. Gwendolyn Foote
J0827	The Creation of a	novel Carbon Dioxide Scrubber Using Cl	hlorella
Recogniti	on		
Junior	Mathematics &	& Computational Sciences	
Alexander S Ch	ninea	George Washington Carver Middle School	Ms. Mary Martinez
J1011	Math vs Bias		
Second P	Place		
Junior	Plant Science	s	
Sophia G Carb	ajal	Winston Park K-8 Center	Mr. Richard Dominguez
J1315	The Effect of Nicl	kel Sulfate on Amount of Magnesium in Pl	lants
Fourth Pla	ace		
Sara I Toledo		Winston Park K-8 Center	Mr. Joseph Callaway
J1316	Does the Nitroge Biomass of the C	n-Fixing Bacteria (Rhizobium) and Nitroge lover (Trifolium)	en Fertilizer Affect the
Recogniti	on		

Senior Animal Sciences

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Madison Prech	t	Westminster Christian School	Mrs. Lisa Garrido
S0110	Lethal and Sub-le Coral, <i>Acropora</i> of	ethal Effects of Sunscreen Compounds on cervicornis	the Threatened Staghorn
Third Place	ce		
Senior	Biomedical &	Health Sciences	
Andy Armand		North Miami Beach Senior High School	Mrs. Vania Boeva
S0312	Studies of the Int Amyloid β (A β)	eractions between Analogues of Heparin D	Disaccharide and Alzheimer
Fourth Pla	ace		
Ethan Z Levy		Dr. Michael M. Krop High School	Dr. David Buncher
S0313	A Novel Method the Anastomosis	for Auto-Suturing in Laparoscopic Robotic	Coronary Artery Bypass Graf
Second P	lace		
Abigail E Raffal		Westminster Christian School	Mrs. Lisa Garrido
S0315	Cell Cycle Dysre	gulation in Ovarian Cancer	
Honorable	e Mention		
Senior	Cellular/Molec	cular Biology & Biochemistry	
Michael Gonca	lves	TERRA Environmental Research Institute	Mrs. Melissa Fernandez
S0410	The Impact of Arg	g 33 and Arg 84 on Human Cytoglobin Stal	bility
Third Place	ce		
Amanda R May	rtin	Medical Academy for Science and Technology	Mr. Brian Ruhman
S0411	Role of Autophag Astrocytes	yy on HIV Tat-Induced Intracellular Calcium	n Release in Murine
Third Place	ce		
Senior	Chemistry		
Sara V Fernand	dez	Westminster Christian School	Mrs. Lisa Garrido
S0510	The Effect of Incr Simulated Blood	reasing the Level of Magnetic Field Applied	on the Flow Rate of
Third Place	ce		
Olivia L Gottlieb		Dr. Michael M. Krop High School	Dr. David Buncher
S0511	Cohesiveness of	the Oscillating BZ Reaction	
Third Place	ce		
Senior	Earth & Enviro	onmental Sciences	
Andres E Leon		Felix Varela Senior High School	Mrs. Teresa Casal
S0629	Tracking Phosph Using Benthic Alg	ate Inputs as a Result of Saltwater Intrusio gal Mats	n in the Florida Everglades
Recogniti	on		
Senior	Environmenta	l Engineering	

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Jesus R Capo		Christopher Columbus High School	Ms. Christine Taylor
S0811	RecycloTrash: Ba	arcodes vs CV	
Third Pla	ce		
David A Perez		Christopher Columbus High School	Ms. Christine Taylor
S0811	RecycloTrash: Ba	arcodes vs CV	
Third Pla	ce		
Senior	Mathematics &	& Computational Sciences	
Elizabeth J Sto	ne	Miami Country Day School	Mr. Dan Bronish
S1007	Relative Entropy	of Paintings	
Honorabl	e Mention		
Senior	Plant Sciences	5	
Megan M Zou		Ransom Everglades School	Dr. Claudia Ochatt
S1306		ants to Fight Global Warming: Data Min cclimation to Climate Change	ing for Key Genes of

Fourth Place

22 awards for South Florida Region

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St. Johns

Junior	Chemistry		
Natalie A Byro	n	Alice B. Landrum Middle School	Mr. Joseph Anzelmo
J0511	Mighty Microgree	ens: Don't Judge Your Greens By TI	neir Size
Third Pla	ice		
Junior	Engineering		
Aditya Singh		Valley Ridge Academy	Mrs. Kathy Shirley
J0715	Developing Dista	nce Based Edge Detection	
Second I	Place		
Junior	Intelligent Mad	chines, Robotics, & Systems Soi	ftware
Sofia E Kloste	rmeyer	Alice B. Landrum Middle School	Mr. Joseph Anzelmo
J0907	Creating Cryptog	raphically Secure Passwords Using	Hash Functions
Third Pla	ice		
Junior	Physics & Ast	ronomy	
Zachary M He	adings	Fruit Cove Middle School	Mrs. Jill Kiefer
J1218	Detecting Sound	with Light	
Third Pla	ice		
Junior	Plant Science	S	
Johnathan Sch	noenborn	Fruit Cove Middle School	Mrs. Jill Kiefer
J1341	From Rubbish to Manufactured Fe	Radishes: Does Compost Produce rtilizer?	Increased Plant Growth Over
Fourth P	lace		
Senior	Cellular/Moled	cular Biology & Biochemistry	
Madison R Ba	rshick	Ponte Vedra High School	Dr. Kathryn Kehoe
S0405		activated Protein Kinase Gene into a to Induce RNA Interference in <i>Mus</i>	

Fourth Place

6 awards for St. Johns Region

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St. Lucie

Junior	Behavioral &	Social Sciences	
Asha J Budh	ai	Oak Hammock K-8 School	Ms. Alison Seaton
J0219	Drop the Pressu	re	
Honora	able Mention		
Junior	Earth & Envir	onmental Sciences	
Connor O'Su	Illivan	Forest Grove Middle School	Mr. Jon Breedlove
J0650	Recharge, Repo	wer, and Restore Energy	
Fourth	Place		
Junior	Engineering		
Jack H Krası	ulak	Saint Andrew's Episcopal Academy	Mr. Zane Barrus
J0743	Mitigating the Eff	fects of IED Explosion through Novel Hull I	Design
Division	n Grand Award Winne	r And First Place	
Junior	Physics & Ast	tronomy	
Riley N Ham	ilton	Olivet Private School	Mrs. Deanna Pick
J1245	Testing Fluids fo	r Geothermal Heating and Air Conditioning)
Third P	lace		
Junior	Plant Science	es	
Mason A Koz	zac	Lincoln Park Academy	Ms. Sally Vandereedt
J1333	Savanna Mint		
Recogn	nition		
Senior	Cellular/Molec	cular Biology & Biochemistry	
Catherine Ho	orger	Lincoln Park Academy	Ms. Lisa Hevner
S0430		ole-3-Acetic Acid and Kinetin on the Fresh Tobacco Cell Line	Weight Accumulations &
Second	d Place		
Callie W Zhe	— — — — — — — — — — — — — — — — — — —	Lincoln Park Academy	Ms. Stephanie Reid
S0431	Can Human Fec and Muck Samp	al Specific Primers be Used to Detect Fec les?	al Contamination in Sediment
Recogn	nition		
Senior	Earth & Envir	onmental Sciences	
Jillian C Mar	kle	Lincoln Park Academy	Mr. Brady Sullivan
S0637	Ugh! Another Inv	asive Weevil in Florida	
Recogn	nition		

Senior *Mathematics & Computational Sciences*

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Sreya Banik		Lincoln Park Academy	Ms. Lisa Hevner
S1026		aos Game Representation of Genes to NA Sequences to Determine if the Se tein	
Honorab	le Mention		
Senior	Microbiology		
Shreya K Redo	dy	Lincoln Park Academy	Ms. Lina Rao
S1128	Improving Health	of Beneficial Insects through Ingestion	n of Nonpathogenic Indovirus
Third Pla	ice		
Senior	Physics & Ast	ronomy	
Riley A Hogge		Fort Pierce Westwood High School	Mr. Scott Hurley
S1230	Catching Waves		
Fourth P	lace		
Alexis B Morei	ra	Fort Pierce Westwood High School	Mr. Scott Hurley
S1230	Catching Waves	-	
Fourth P	lace		
Senior	Plant Science	s	
Haniya Sharee	ef	Lincoln Park Academy	Ms. Lisa Hevner
S1324	Molecular Charac Candidate for <i>Cy</i>	cterization and Enhanced Efficacy of a perus rotundus	Novel Host-Specific Bioherbicide

Division Grand Award Winner And First Place

13 awards for St. Lucie Region

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Suwannee Valley

	y		
Junior	Behavioral &	Social Sciences	
Anelise J Bulla	rd	Fort White High School	Mr. George Karlton
J0213	The Uncanny Va	lley	
Recogniti	on		
Junior	Earth & Enviro	onmental Sciences	
Ciara D Wooda	ıll	Lake Butler Middle School	Mr. Casey Wimpey
J0641	Phosphate Minin	g and How it Affects Water Quality	
Fourth Pl	ace		
lunior	Engineering		
Thomas Green	е	Lake City Middle School	Mrs. Jennifer Saylor
J0733	One Beat at a Ti	me	
Fourth Pl	ace		
lunior	Plant Science	s	
Logan A Mears		Richardson Middle School	Mrs. Elicia Odom
J1325	Rad Radishes		
Honorable	e Mention		
Senior	Animal Science	ces	
Emily A Aceved	do	Bradford High School	Ms. Nickie Snyder
S0123	Comparison of E	LISA to RIA as Predictors of Parturition in	Goats
Honorabl	e Mention		
Senior	Behavioral &	Social Sciences	
Klara L Fletche	r	Fletcher Academy	Mrs. Kelly Christie
S0215	Memory Matters:	The Effectiveness of Mnemonics vs Video	Learning - Year 2
Fourth Pl	ace		
Senior	Biomedical &	Health Sciences	
Madelyn Kish		Union County High School	Ms. Renae Allen
S0326	The Effects of Mi Patients	rror Therapy Accompanied with Music on t	the Rehabilitation of Stroke
Fourth Pl	ace		
Senior	Chemistry		
Hunter B Richa	irds	Union County High School	Ms. Renae Allen
S0523	Moo Who?	_	
Honorable	e Mention		

Honorable Mention

Senior Earth & Environmental Sciences

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Caitlin H Anthony		Bell High School Mr. Bill Martin	
S0625	Can Humate Red	uce Nitrogen Leaching in Sand	ly Soil?
Fourth Pla	ace		
Austin K Bagby	,	Bell High School	Mr. Bill Martin
S0625	Can Humate Red	uce Nitrogen Leaching in Sand	ly Soil?
Fourth Pla	ace		
Mariah R Grine	r	Union County High School	Ms. Renae Allen
S0636	Exploring Denitrification of Stormwater: Testing Three Carbon Substrates for Filti Efficiency		Three Carbon Substrates for Filtration
Honorable	e Mention		
Senior	Plant Sciences	S	
Noah R Anuez		Fort White High School	Mr. Wayne Oelfke

S1317 Are there Measureable Differences between GMO and non-GMO Plants?

Fourth Place

Ryan G Hardin Union County High School Ms. Renae Allen

S1318 Association Study for Rootabillity Traits on Populus Deltoidies

Third Place

13 awards for Suwannee Valley Region

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Thomas Alva Edison

Junior	Animal Science	ces	
Maya S Chan		Canterbury School	Mrs. Cara Summit
J0136	The Effect of Hig	h Frequency Shortwaves vs Laser Beams ((A Novel 2nd Year Study)	
First Pla	се		
Kadin P Musc	0	Varsity Lakes Middle School	Mr. Michael Stoker
J0137	Moo-nure; The F	inal Answer	
Third Pla	ace		
Junior	Chemistry		
Morgan E Ba	rkhurst	North Fort Myers Academy of the Arts	Mrs. Tiffini Jamison
J0532	BPA Free? Let's	See! The Study of BPA in Plastics Using a	UV-Vis Spectrophotometer
First Pla	ce		
Junior	Earth & Enviro	onmental Sciences	
Sierra D Edels	stein	Gulf Middle School	Ms. Kristy Lavis
J0655		Ocean: Do Freshwater Releases from Lake Eastern Oysters <i>Crassostrea virginica</i> in S	
Third Pla	ace		
Sofia J Herrer		Saint Francis Xavier Catholic School	Mrs. Christina Stejskal
J0657	Birds About Town	n: A Focus on Urban Ecology	
Honorat	ole Mention		
Junior	Environmenta	l Engineering	
Heidi E Kinse J0836	y A Hairy Solution	Cypress Lake Middle School	Ms. Jill Whitewood
Recogni	tion		
Junior	Mathematics of	& Computational Sciences	
Junwei Tan		Gateway Intermediate Charter School	Mrs. Jeannie White
J1019	Autonomous Sea	rch and Rescue	
Honorab	ole Mention		
Junior	Microbiology		
Caspian M So	hultz	North Fort Myers Academy of the Arts	Ms. Michele Tasnto
J1118	Strike! Spare Me	the Bacteria	
Third Pla	ace		
Junior	Physics & Ast	ronomy	
		Saint Charles Borromeo Catholic School	Mr. Chris Mullins
James D Hum	ipel	Saint Charles Dononie Catholic School	IVII. OTITIS IVIUIIITIS
James D Hum J1247	A Blast from the		Wii. Offits Wulling

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Junior	Plant Sciences

Jennifer A Jac	oby	Gulf Middle School	Ms. Kristy Lavis
J1336	Radiation and Ra	dish Seeds	

Honorable Mention

Senior Biomedical & Health Sciences

Myesha A Choudhury	Canterbury School	Mr. Michael Haughey
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S0332 How Would the Addition of Fish Oil and Genistein to Bacterial Transformation Protocols Affect the Plasmid Uptake and Antibacterial Resilience of an MM294 *E. Coli* Culture

Substrate?

Honorable Mention

Senior Cellular/Molecular Biology & Biochemistry

Jay S Chand	ar Canterbury School	Mr. Michael Haughey
S0432	Moving Towards the Cure: Investigating the I	
	Mechanisms on the Regulation of MAPT Ger	•
	Neurofibrillary Tangles to Identify Drug Targe	ets for Alzheimer's Disease - A Fourth Year
	Study	

Division Grand Award Winner And First Place

Senior Chemistry

Anna M Kucera Canterbury School Mr. Michael Haughey

S0532 An Analysis of Bisphenol A, Bisphenol S, and Bisphenol F in BPA-Free versus Ordinary
Plastic Containers Using Gas Chromatography Mass Spectrometry

Fourth Place

Senior Earth & Environmental Sciences

Mark Leone	Canterbury School	Mr. Michael Haughey
S0649	A Study of the Effects of Environmental Variable	es on Phytoplankton Appearances

Recognition

Melissa Marchese Canterbury School Mr. Michael Haughey

The Effects of Boat Traffic on Water Quality as Measured by Levels of Turbidity, Colored Dissolved Organic Matter, and Chlorophyll α

Fourth Place

Senior Mathematics & Computational Sciences

Daniia L Dry	Fort Myers High School	ivis. Cathy Tucker
S1028	Looking into the Past for Insight on the Future:	Predictive Analytics and Data Science for

Time Series Data

Third Place

Senior Physics & Astronomy

Shaan Chaudhari		Fort Myers High School	Ms. Cathy Tucker
S1231	Effects of Neodyr	mium Magnetic Fields on Rhizo	ochlonium Algae Growth

Fourth Place

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Ethan Leung	Fort Myers High School	Ms. Cathy Tucker	
S1231	Effects of Neodymium Magnetic Fields on R	hizochlonium Algae Growth	
Fourth F	Place		
Jash Patel	Fort Myers High School	Ms. Cathy Tucker	
S1231	Effects of Neodymium Magnetic Fields on R	nium Magnetic Fields on Rhizochlonium Algae Growth	
Fourth P	Place		
Senior	Plant Sciences		
	Cantarhum, Cahaal	Mr. Michael Haughey	
Qiao Jiao	Canterbury School	ivii. iviiciiaei i laugiley	

Third Place

20 awards for Thomas Alva Edison Region

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Three Rivers

Junior	Behavioral &	Social Sciences	
Logan C Delg		Bay Haven Charter Academy	Mrs. Amy Canfield
J0203	The Value of Co	lor	
Recogni	tion		
Junior	Biomedical &	Health Sciences	
Ashley J Dem	pster-Wilson	Bay Haven Charter Academy	Mrs. Amy Canfield
J0306	A Sugary Solution	on	
Fourth F	lace		
Junior	Cellular/Mole	cular Biology & Biochemistry	
Emelia J Clark	(North Bay Haven Charter Academy	Ms. Nancy Rodgers
J0402	What Material Pi	romotes Oyster Propagation the Best?	
Fourth P	lace		
Junior	Chemistry		
Madeleine G \	Vilson	Bay Haven Charter Academy	Mrs. Amy Canfield
J0504	Feel the Burn! C	ommonly Used Antacid Compounds and T	heir Neutralizing Capacity
Third Pla	ace		
Junior	Engineering		
Sami Najib		Panama City Advanced School	Dr. Abdulrahman Al-Dubaie
J0702	Analysis and De	sign of Helicopter Rotor Systems	
Third Pla	ace		
Junior	Mathematics	& Computational Sciences	
Sarah V Leeb		Merritt Brown Middle School	Mrs. Wendi Henderson
J1003	Thrown for a Cu	rve	
Third Pla	ace		
Junior	Physics & Asi	tronomy	
Jonathan C V	•	Bay Haven Charter Academy	Mrs. Amy Canfield
J1207	How Gravitation	al Lensing Affects Luminosity	-
Honorab	le Mention		
Junior	Plant Science	2S	
Samantha N k		North Bay Haven Charter Academy	Ms. Nancy Rodgers
J1305	Can Cryogenica	lly Preserving Seeds Save Florida's Citrus	, ,
Third Pla	ace		
Marla Rinehar		Bay Haven Charter Academy	Ms. Anna McEntire
J1306	Atmospheric Pre	ssure vs. Plant Growth	
Fourth P	lace		

Fourth Place

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Elijah Jackson		Bay Area Homeschool	Mrs. Wendi L Jackson
S1203	Drowning in Pow	er	

Recognition

10 awards for Three Rivers Region

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New Smyrna Beach Middle School Mrs. Colleen Bender		D: " 10		
Honorable Mention Meryl Liu Creekside Middle School Mr. Martin Ingoldsby J0319 Modeling the Transmission Rate of Travel-related ZIKV in Florida Counties Using Linear Regression Analysis Recognition Junior Chemistry Leonard Marinaccio Ormond Beach Middle School Mrs. Deborah Linn J0516 The Heat is on: How Does Temperature Affect the Glow of Luminol? Recognition Junior Earth & Environmental Sciences Ria Gupta David C. Hinson Middle School Ms. Nita Manis J0628 Does Land Development Along the Tomoka River Affect Water Quality? Recognition Emma J Schlageter Creekside Middle School Ms. Rachel Bogdanoff J0629 Does the Age of an Aquatic Restoration Site Effect the Biodiversity of the Vegetation at that Location? Honorable Mention Junior Environmental Engineering Yara Nasr Ormond Beach Middle School Mrs. Deborah Linn J0820 Can Car Mounted Wind Turbines Power Moving Electric Vehicles? Honorable Mention Scott R Tobin Creekside Middle School Mrs. Martin Ingoldsby J0821 By Using s Solar Powered Tesla Coil, Can Water Be Made Potable through Ozonification? First Place Senior Behavioral & Social Sciences Nabiha E Ahmed Spruce Creek High School Ms. Anne M. Cooney S0211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge Third Place Sobia T Khan Spruce Creek High School Ms. Anne M. Cooney	Junior	Biomedical &		
Honorable Mention Meryl Liu Creekside Middle School Mr. Martin Ingoldsby J0319 Modeling the Transmission Rate of Travel-related ZIKV in Florida Counties Using Linear Regression Analysis Recognition Junior Chemistry Leonard Marinaccio Ormond Beach Middle School Mrs. Deborah Linn J0516 The Heat is on: How Does Temperature Affect the Glow of Luminol? Recognition Junior Earth & Environmental Sciences Ria Gupta David C. Hinson Middle School Ms. Nita Manis J0628 Does Land Development Along the Tomoka River Affect Water Quality? Recognition Emma J Schlageter Creekside Middle School Ms. Rachel Bogdanoff J0629 Does the Age of an Aquatic Restoration Site Effect the Biodiversity of the Vegetation at that Location? Honorable Mention Junior Environmental Engineering Yara Nasr Ormond Beach Middle School Mrs. Deborah Linn J0820 Can Car Mounted Wind Turbines Power Moving Electric Vehicles? Honorable Mention Scott R Tobin Creekside Middle School Mr. Martin Ingoldsby J0821 By Using s Solar Powered Tesla Coil, Can Water Be Made Potable through Ozonification? First Place Senior Behavioral & Social Sciences Nabiha E Ahmed Spruce Creek High School Ms. Anne M. Cooney S0211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge Third Place Sobia T Khan Spruce Creek High School Ms. Anne M. Cooney S0211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge	Kasey S Lane		,	Mrs. Colleen Bender
Meryl Liu Creekside Middle School Mr. Martin Ingoldsby J0319 Modeling the Transmission Rate of Travel-related ZIKV in Florida Counties Using Linear Regression Analysis Recognition Junior Chemistry Leonard Marinaccio Ormond Beach Middle School Mrs. Deborah Linn J0516 The Heat is on: How Does Temperature Affect the Glow of Luminol? Recognition Junior Earth & Environmental Sciences Ria Gupta David C. Hinson Middle School Ms. Nita Manis J0628 Does Land Development Along the Tomoka River Affect Water Quality? Recognition Emma J Schlageter Creekside Middle School Ms. Rachel Bogdanoff J0629 Does the Age of an Aquatic Restoration Site Effect the Biodiversity of the Vegetation at that Location? Honorable Mention Junior Environmental Engineering Yara Nasr Ormond Beach Middle School Mrs. Deborah Linn J0820 Can Car Mounted Wind Turbines Power Moving Electric Vehicles? Honorable Mention Scott R Tobin Creekside Middle School Mr. Martin Ingoldsby J0821 By Using s Solar Powered Tesla Coil, Can Water Be Made Potable through Ozonification? First Place Senior Behavioral & Social Sciences Nabiha E Ahmed Spruce Creek High School Ms. Anne M. Cooney S0211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge Third Place Sobia T Khan Spruce Creek High School Ms. Anne M. Cooney S0211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge	J0318	Which Case Is S	afe?	
Modeling the Transmission Rate of Travel-related ZIKV in Florida Counties Using Linear Regression Analysis Recognition Junior Chemistry Leonard Marinaccio Ormond Beach Middle School Mrs. Deborah Linn J0516 The Heat is on: How Does Temperature Affect the Glow of Luminol? Recognition Junior Earth & Environmental Sciences Ria Gupta David C. Hinson Middle School Ms. Nita Manis J0628 Does Land Development Along the Tomoka River Affect Water Quality? Recognition Emma J Schlageter Creekside Middle School Ms. Rachel Bogdanoff J0629 Does the Age of an Aquatic Restoration Site Effect the Biodiversity of the Vegetation at that Location? Honorable Mention Junior Environmental Engineering Yara Nasr Ormond Beach Middle School Mrs. Deborah Linn J0820 Can Car Mounted Wind Turbines Power Moving Electric Vehicles? Honorable Mention Scott R Tobin Creekside Middle School Mr. Martin Ingoldsby J0821 By Using s Solar Powered Tesla Coil, Can Water Be Made Potable through Ozonification? First Place Senior Behavioral & Social Sciences Nabiha E Ahmed Spruce Creek High School Ms. Anne M. Cooney So211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge Third Place Sobia T Khan Spruce Creek High School Ms. Anne M. Cooney So211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge	Honorabl	e Mention		
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Emma J Schlageter Creekside Middle School Ms. Rachel Bogdanoff J0629 Does the Age of an Aquatic Restoration Site Effect the Biodiversity of the Vegetation at that Location? Honorable Mention Junior Environmental Engineering Yara Nasr Ormond Beach Middle School Mrs. Deborah Linn J0820 Can Car Mounted Wind Turbines Power Moving Electric Vehicles? Honorable Mention Scott R Tobin Creekside Middle School Mr. Martin Ingoldsby J0821 By Using s Solar Powered Tesla Coil, Can Water Be Made Potable through Ozonification? First Place Senior Behavioral & Social Sciences Nabiha E Ahmed Spruce Creek High School Ms. Anne M. Cooney S0211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge Third Place Sobia T Khan Spruce Creek High School Ms. Anne M. Cooney How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge	Recogniti	on.		
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Yara Nasr Joseph Can Car Mounted Wind Turbines Power Moving Electric Vehicles? Honorable Mention Scott R Tobin Joseph Can Social Sciences Nabiha E Ahmed Spruce Creek High School Third Place Sobia T Khan Spruce Creek High School Spruce Creek High School Third Place Sobia T Khan Spruce Creek High School Spruce Creek High School Ms. Anne M. Cooney		Does the Age of	an Aquatic Restoration Site Effect the B	<u> </u>
Yara Nasr Ormond Beach Middle School Mrs. Deborah Linn J0820 Can Car Mounted Wind Turbines Power Moving Electric Vehicles? Honorable Mention Scott R Tobin Creekside Middle School Mr. Martin Ingoldsby J0821 By Using s Solar Powered Tesla Coil, Can Water Be Made Potable through Ozonification? First Place Senior Behavioral & Social Sciences Nabiha E Ahmed Spruce Creek High School Ms. Anne M. Cooney S0211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge Third Place Sobia T Khan Spruce Creek High School Ms. Anne M. Cooney S0211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge The Ms. Anne M. Cooney S0211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge	Honorable	e Mention		
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Honorable Mention Scott R Tobin	Yara Nasr			Mrs. Deborah Linn
Scott R Tobin JO821 By Using s Solar Powered Tesla Coil, Can Water Be Made Potable through Ozonification? First Place Senior Behavioral & Social Sciences Nabiha E Ahmed Spruce Creek High School How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge Third Place Sobia T Khan Spruce Creek High School Ms. Anne M. Cooney Spruce Creek High School Ms. Anne M. Cooney Ms. Anne M. Cooney Spruce Creek High School Ms. Anne M. Cooney Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney	J0820	Can Car Mounte	d Wind Turbines Power Moving Electric	Vehicles?
Scott R Tobin JO821 By Using s Solar Powered Tesla Coil, Can Water Be Made Potable through Ozonification? First Place Senior Behavioral & Social Sciences Nabiha E Ahmed Spruce Creek High School How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge Third Place Sobia T Khan Spruce Creek High School Ms. Anne M. Cooney Spruce Creek High School Ms. Anne M. Cooney Ms. Anne M. Cooney Spruce Creek High School Ms. Anne M. Cooney Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney Solia T Khan Spruce Creek High School Ms. Anne M. Cooney	Honorable	e Mention		
Ozonification? First Place Senior Behavioral & Social Sciences Nabiha E Ahmed Spruce Creek High School Ms. Anne M. Cooney S0211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge Third Place Sobia T Khan Spruce Creek High School Ms. Anne M. Cooney S0211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge			Creekside Middle School	Mr. Martin Ingoldsby
SeniorBehavioral & Social SciencesNabiha E AhmedSpruce Creek High SchoolMs. Anne M. CooneyS0211How Does the Testimony of Veiled Individuals Affect the Observer's Ability to JudgeThird PlaceSobia T KhanSpruce Creek High SchoolMs. Anne M. CooneyS0211How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge	J0821		Powered Tesla Coil, Can Water Be Mad	de Potable through
Nabiha E Ahmed Spruce Creek High School Ms. Anne M. Cooney S0211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge Third Place Sobia T Khan Spruce Creek High School Ms. Anne M. Cooney S0211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge	First Plac	e		
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Third Place Sobia T Khan Spruce Creek High School Ms. Anne M. Cooney S0211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge	Nabiha E Ahme	ed	Spruce Creek High School	Ms. Anne M. Cooney
Sobia T Khan Spruce Creek High School Ms. Anne M. Cooney S0211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge	S0211	How Does the Te	estimony of Veiled Individuals Affect the	Observer's Ability to Judge
Sobia T Khan Spruce Creek High School Ms. Anne M. Cooney S0211 How Does the Testimony of Veiled Individuals Affect the Observer's Ability to Judge	Third Place	ce		
· · · · · · · · · · · · · · · · · · ·			Spruce Creek High School	Ms. Anne M. Cooney
Third Place	S0211	How Does the Te	estimony of Veiled Individuals Affect the	Observer's Ability to Judge
Tillia Flace	Third Place	ce		

Senior Biomedical & Health Sciences

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Areebah I Ahm		Spruce Creek High School	Ms. Anne M. Cooney
S0317	The Effect of Flui	d Dynamics in Cardiovascular Disease	
Recognit	ion		
Senior	Chemistry		
Laura A Babico	eanu	Spruce Creek High School	Ms. Anne M. Cooney
S0515	Polystyrene Sulfo Water	onation as a Method to Remove Calcium	and Magnesium Ions from
Recognit	ion		
Senior	Earth & Enviro	onmental Sciences	
Sohayla T Elde	eeb	Spruce Creek High School	Dr. Nick Stoute
S0618	The Effectivenes	s of Ferrofluid Nanotechnology on Clean	ing up Oil Spills
Recognit	ion		
Senior	Environmenta	l Engineering	
Grace Liu		Spruce Creek High School	Mrs. Linda Kerney
S0813	A Cost Effective	Aquatic Robot for Collecting Environmen	tal Data
Fourth P	lace		
Senior	Intelligent Mad	chines, Robotics, & Systems Software	e
Ruohan Wu		Spruce Creek High School	Ms. Anne M. Cooney
S0910	Utilizing Feature Melanoma Skin (Extraction Algorithms and Machine Lear Cancer	ning for the Diagnosis of
Second I	Place		
Senior	Microbiology		
Asraa F Ahme	d	Spruce Creek High School	Ms. Anne M. Cooney
S1110	compound Inhibit	for Chronic Bacterial Infection: Potential ion of N-Acylhomoserine Lactone (AHL) Notes of Notes (AHL) Notes of	
Second I	Place		
Senior	Plant Science	S	
Gillian Carter		Spruce Creek High School	Ms. Anne M. Cooney
S1309	The Affect of Cig	arette Smoke on Tomato Plants	

Recognition

16 awards for Tomoka Region

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West Panhandle

Junior	Animal Science	es	
Dana R Amin	5	Saint Paul Catholic School	Mrs. Holly Forrester
J0102	Crabtastic Temper	atures	
Recognit	ion		
Junior	Behavioral & So	ocial Sciences	
Lauren K Baut	sta l	Holley Navarre Middle School	Mrs. Kathryn Clark
J0202	Pricing Trickery: TI	he Placebo Effect and Prices	
Recognit	ion		
Junior	Cellular/Molecu	ılar Biology & Biochemistry	
Lilah Hodge	5	Saint Paul Catholic School	Mrs. Holly Forrester
J0421	Pineapple Enzyme	e vs Jello Smackdown	
Recognit	ion		
Junior	Microbiology		
Angelia F Morr	is I	Holley Navarre Middle School	Mrs. Kathryn Clark
J1101	Spice It Up: Testin	g The Antimicrobial Properties of Herbs a	nd Spices
Recognit	ion		
Amy Zhang	E	Brown-Barge Middle School	Mrs. Susan Hunter
J1102	Light Up Your Eug	lena	
Fourth Pl	ace		
Junior	Physics & Astro	onomy	
Darcy R Sulliv	an S	Saint Paul Catholic School	Mrs. Holly Forrester
J1204	Pitter Patter Here's	s Some Spatter!	
Recognit	ion		
Lindsey E Rau		Saint Paul Catholic School	Mrs. Holly Forrester
J1250	Liter of Light (Refra	acted Sunlight vs Light Bulbs)	
Honorabl	e Mention		
Junior	Plant Sciences		
Kavay H E Hov	vell l	Holley Navarre Middle School	Mrs. Kathryn Clark
J1339	Fix That Nitrogen! Fertilizer	Comparing the Effects of Nitrogen-Fixing	Bacteria and Nitrogen
Fourth Pl	ace		
	Daharianal 9 O	ocial Sciences	
Senior	Benaviorai & So		
Senior Lauren Beall		Pensacola High School	Mrs. Cherie Stephens
	F	Environment and Stress Level on the Ac	· · · · · · · · · · · · · · · · · · ·

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Patricia K Mc	Auley	Pensacola High School	Mrs. Cherie Stephens
S0204	The Effect of Wor Testimony: Year	rk Environment and Stress Level on the A	Accuracy of Eyewitness
Recogni	ition		
Senior	Chemistry		
John D Dixon	·	Pensacola High School	Mrs. Cherie Stephens
S0504	The Effect of Diss	solved Sodium Chloride Ions on the Leide	enfrost Point of Water
Fourth F	Place		
Senior	Engineering		
Julianna M He		West Florida High School of Advanced	Mrs. Cathy Organt
S0704	Determination of	Technology Airfoil Characteristics for Maximum Lift	
Honoral	ole Mention		
Senior	Environmenta	l Engineering	
Leo S Forty		Pensacola High School	Mrs. Cherie Stephens
S0805	The Optimal Perf Blades	ormance For Residential Wind Turbines v	with Different Number of
Fourth F	Place		
Jeffrey A Suth		Pensacola High School	Mrs. Cherie Stephens
S0805	The Optimal Perf Blades	ormance For Residential Wind Turbines v	with Different Number of
Fourth F	Place		
Xuan M Ho		Pensacola High School	Mrs. Cherie Stephens
S0837	Monitoring Nutrie	nt Levels of a Self Sustained Environmer	nt with Use of an Arduino
Honoral	ole Mention		
Maya N Hume	eda	Pensacola High School	Mrs. Cherie Stephens
S0837	Monitoring Nutrie	nt Levels of a Self Sustained Environmer	nt with Use of an Arduino
Honoral	ole Mention		
Joseph C McG		Pensacola High School	Mrs. Cherie Stephens
S0837	Monitoring Nutrie	nt Levels of a Self Sustained Environmer	nt with Use of an Arduino
Honoral	ole Mention		
Senior	Intelligent Mad	chines, Robotics, & Systems Software	•
Alexander Po	ре	Pensacola High School	Mrs. Cherie Stephens
S0924	Creating an Optir Graphic Interface	mised Algorithm for EEG Wave Separatio	n and an Accompanying
Recogni	ition		

Recognition

18 awards for West Panhandle Region

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