Alachua

Alaciiua			
Junior	Animal Science	ces	
Isaac J Long		Howard W. Bishop Middle School	Mrs. Tonya Camaratta
J0114	Crotalaria Cravin	gs	
Fourth	Place		
Junior	Behavioral &	Social Sciences	
Lauren N. Sa	anders	Howard W. Bishop Middle School	Dr. Chloe Winant
J0213	Are Alachua Cou	nty's Backpacks too Heavy?	
Recogn	nition		
Junior	Biomedical &	Health Sciences	
Maya Oli		Howard W. Bishop Middle School	Mrs. Tonya Camaratta
J0312	Pharma Water II:	Personalized Drinking Water Filter	
Honora	ble Mention		
Ashley E Qu	igley	Kanapaha Middle School	Ms. Janet Wisby
J0313	Shining Light on	the Truth about Sunscreen	
Honora	ble Mention		
Junior	Cellular/Moled	cular Biology & Biochemistry	
James S Col	nan	Howard W. Bishop Middle School	Mrs. Tonya Camaratta
J0410	How Do You Tak	e Your Vitamin C?	
First PI	ace		
Zachary B M	artens	Oak View Middle School	Mrs. Barbara Brook
J0411	How Does the O	xygen Level and Temperature Affect the Mo	ovement of C. Elegans?
Third P	lace		
Junior	Earth & Enviro	onmental Sciences	
Anjana Balad	chandar	Abraham Lincoln Middle School	Mrs. Kim Baxter
J0616	Is Your Water Sv	vell or Does Your Water Smell?	
Honora	ble Mention		
Hayato L Shi		Fort Clarke Middle School	Ms. Anne Karlo
J0617	What Substance	is the Most Effective to Carry out the Capill	lary Phenomenon?
Honora	ble Mention		
Junior	Engineering		
Anthony D M	ladorsky	Howard W. Bishop Middle School	Dr. Chloe Winant
J0729	R.A.D. Automate	d Hydration System for Cyclists	
Third P			
Himanshi Ve		Abraham Lincoln Middle School	Mrs. Kim Baxter
J0731	A Possible Soluti	on to a Trending Problem: Babies Dying in	Hot Cars
Fourth	Place		

Fourth Place

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Junior Environmental Engineering Janani S Kumaran Abraham Lincoln Middle School Mrs. Kim Baxter J0813 Which Material Makes the 'Coolest' Insulator? Fourth Place Isabelle B Lednicky Howard W. Bishop Middle School Mr. Paul Jost Safety and Efficacy of Homemade vs Store Bought Pesticides Honorable Mention **Junior** Intelligent Machines, Robotics, & Systems Software Zachary A Hilman Oak View Middle School Mrs. Barbara Brook Digital Floor Mapping with Ardunio J0909 Recognition **Junior** Mathematics & Computational Sciences August A Ewert-Harpold Howard W. Bishop Middle School Mrs. Tonya Camaratta MEME: A Matchbox Educable Mini-Checkers Engine J1008 Second Place Microbiology Junior Matthew I Mitchell Kanapaha Middle School Ms. Janet Wisby Algae: The Untold Story J1109 Honorable Mention **Junior** Physics & Astronomy Avery G Goodman Fort Clarke Middle School Ms. Anne Karlo Wing It J1226 Third Place Plant Sciences Junior Brindha P Rathinasabapathi Abraham Lincoln Middle School Mrs. Kim Baxter J1317 Can Glutathione or Wollastonite Be Used to Reduce Arsenic Contamination in Rice? Third Place Senior Cellular/Molecular Biology & Biochemistry Jialiu A Liang Eastside High School Mrs. Alisha Kage Predicting Cancer Cells' Sensitivity to Chemotherapeutic Drugs S0417 Third Place Senior Earth & Environmental Sciences Zofia N Caes Eastside High School Mrs. Alisha Kage Analyzing the Effects of Meteotsunamis in the Gulf of Mexico S0617 Third Place

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Senior

Engineering

Sidhika Balach	nandar	F. W. Buchholz High School	Ms. Diane McDilda
S0720	Novel Granular	Scaffolding that Jams and Unjams f	or Delicate 3D Printing
Third Pla	ice		
Sohan G Subh	ash	F. W. Buchholz High School	Ms. Diane McDilda
S0722	Making Harder N	Materials Tougher	
Fourth Pl	lace		
Senior	Environmenta	al Engineering	
Arjun P Panick	er	F. W. Buchholz High School	Ms. Diane McDilda
S0813	Water Purification	n for Households	
Third Pla	ice		
Senior	Intelligent Ma	chines, Robotics, & Systems So	ftware
Amir A Helmy		Eastside High School	Mrs. Alisha Kage
S0908	Using Data-Drive	en Frequency Analysis Techniques	to Detect Seizures and Falls
Division (Grand Award Winne	r And First Place	
Senior	Mathematics	& Computational Sciences	
Sarah E Eisens	stadt	Eastside High School	Mrs. Alisha Kage
S1011	How Precise is F	Precision Medicine? Modeling the D	evelopment of Metastasis, and
	Determining Opt	imal Sequencing for Mammograms	
Fourth Pl	lace		
Emily Naranjo		Eastside High School	Mrs. Alisha Kage
S1011	How Precise is Precision Medicine? Modeling the Development of Metastasis, and Determining Optimal Sequencing for Mammograms		

Fourth Place

25 awards for Alachua Region

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Big Springs

	<u> </u>		
Junior	Animal Science	ces	
Kayle N Cun	ningham	The Villages Charter Middle School	Mrs. Shelbie Wiley
J0119	Is Vet RX a Heal Farming?	thier Replacement than Antibiotics for Chic	kens in Commercial
Second	d Place		
Junior	Behavioral &	Social Sciences	
Joshua A Fo	sen	Osceola Middle School, Ocala	Mr. Lewis Wilson
J0214	The Magnet of F	rustration	
Fourth	Place		
Anderson Sa		Osceola Middle School, Ocala	Mr. Lewis Wilson
J0214	The Magnet of F	rustration	
Fourth	Place		
Micaela E Mo		The Villages Charter Middle School	Mrs. Gretchen Reardon
J0215	Can an Application	on for Alzheimer's Improve a Patient's Qua	lity of Life?
Third P	lace		
Junior	Chemistry		
Shelby L Rov	we	Grace Christian School	Mr. Trevor Roberts
J0527	Which Rocket Fu	iel Substance Creates the Most Thrust?	
Second	d Place		
Daniel A Will		Classical Conversations Homeschool	Mrs. Meredith Williams
J0528	Thermite vs Dew	Can	
Third P	lace		
Junior	Earth & Enviro	onmental Sciences	
Anna C Mitch	nell	Osceola Middle School, Ocala	Mr. Lewis Wilson
J0622	Frogs Gone Wro	ng Continued	
Third P	lace		
Junior	Engineering		
Larry E Thon		Belleview Middle School	Ms. Helen Hamel
J0738	It's Full of Hot Air		
Second	d Place		
Junior		chines, Robotics, & Systems Software	
Andy Shar	intolligent Ma	The Villages Charter Middle School	Mrs. Lauri Siverson
J0911	Computer Progra	am Simulation on the Impact of Herd Immu	
00011	Propagation	Ca.a.a.a. on the impact of Flora Illinia	, 3.14 1400.1100 011 210040
Second	d Place		

Plant Sciences

Junior

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Cheyenne R Shirley South Sumter Middle School Mr. Kevin Strickland Creeping Indigo vs Grazon Next J1326 Fourth Place Senior Animal Sciences Harrell H Phillips, III Vanguard High School Mr. John Hare Feeding A Hungry World: The Role of Macrocyclic Lactones S0117 Fourth Place Senior Behavioral & Social Sciences Luke Mayo South Sumter High School Ms. Emily Keeler Changing Perceptions of GMO's Through Education S0221 Recognition Senior Biomedical & Health Sciences Kendall R Clark South Sumter High School Ms. Emily Keeler The Effect of Naringin on Oct-1 Deficient Cells: The Fabulous Flavonoid Year II S0319 Honorable Mention Tiffany Liu The Villages Charter High School Ms. Monica Vinas Can MRI Be Used as a Novel Technique to Diagnose Human Bacterial Blood Infections? S0320 Second Place Senior Cellular/Molecular Biology & Biochemistry Kyle A Coady South Sumter High School Ms. Emily Keeler Particles with Tunable Size in Relation to Fiber Length S0427 Recognition Sai Aditya Sriram Vanguard High School Mr. John Hare A Novel Method to Correlate Weight Gain and Increased Risk of Metallosis in Metal-on-S0428 metal Hip and Knee Implant Patients First Place Isabel M Torres The Villages Charter High School Ms. Monica Vinas A Neuronal Cell Study Probing Tau Hyperphosphorylation as a Model for Chronic S0429 Traumatic Encephalopathy (CTE) Second Place Senior Chemistry Kranti Rumalla West Port High School Mrs. Judith Dominguez The Effect of Varying Temperatures on the Release of Antimony within Polyethylene S0514 Terephthalate Plastic Beverage Bottles Recognition Earth & Environmental Sciences Senior South Sumter High School Peter A Ashley Ms. Emily Keeler Rice Rice Baby: An Ecological Method to Becoming a Sustainable Population S0625 Recognition

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Amy M Ashl	еу	South Sumter High School	Ms. Emily Keeler
S0625	Rice Rice Baby:	An Ecological Method to Becoming	a Sustainable Population
Recog	ınition		
Andrew O A		South Sumter High School	Ms. Emily Keeler
S0625	Rice Rice Baby:	An Ecological Method to Becoming	
Recog	nition		
Carlie M Tay	ylor	The Villages Charter High School	Ms. Monica Vinas
S0627	Analysis of the F	elationship Between Climate and <i>Pil</i>	nus elliottii Ring Chronologies: Yea
Fourth	Place		
Senior	Engineering		
Christine H	wang	Vanguard High School	Mr. John Hare
S0731	Development of	a Bacterial Sensor Using Bioconjuga	ted Silver Nanoparticles
Third F	Place		
Jacob A Mo	•	Vanguard High School	Mr. John Hare
S0731	Development of	a Bacterial Sensor Using Bioconjuga	ted Silver Nanoparticles
Third F	Place		
Senior	Environmenta	al Engineering	
Kevin M Ma	tos	The Villages Charter High School	Ms. Monica Vinas
S0823	A Photobioreacto	or for the Future	
Honor	able Mention		
Kunal Upad	ya	Vanguard High School	Mr. John Hare
S0824	Copper Nanopar Microbial Growth	ticles in a Reverse Osmosis Water F - Year 2	iltration System for Inhibition of
Third F	Place		
Senior	Intelligent Ma	chines, Robotics, & Systems Soft	tware
Kathy Nguye		The Villages Charter High School	Ms. Monica Vinas
S0910		Ongoing Study: Immersive Virtual Re	ality
Recog	nition		
Senior	Plant Science	es	
Sabrina L M	lead	The Villages Charter High School	Ms. Monica Vinas
S1323	How Effective ar is the Most Effect	e Polymers in the Rehabilitation of C	ontaminated Soil; and which Type
Honor	able Mention		

Honorable Mention

28 awards for Big Springs Region

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Brevard: Intracoastal

Junior	Animal Science	ces	
Vicent G Baue	rle	DeLaura Middle School	Ms. Deborah Austin
J0112	Wiggling Away W	/ith Compost	
Recogniti	on		
Junior	Behavioral & S	Social Sciences	
Tiffany F Matta		DeLaura Middle School	Ms. Deborah Austin
J0209	The Power of Pe	rception	
Third Pla	ce		
Junior	Biomedical &	Health Sciences	
Mirabelle A Ge	rts	DeLaura Middle School	Ms. Deborah Austin
J0309	Eradicating Disea	asae by Terminating from Alloys	
Fourth Pl	ace		
Junior	Cellular/Moled	cular Biology & Biochemistry	
Margaret McMa	ahan	DeLaura Middle School	Ms. Deborah Austin
J0409	Clean Hygiene: Mutation	Using Coconut Oil to Combat <i>Streptococcu</i>	us mutans without Cell
Recogniti	on		
Junior	Chemistry		
Noah S Huff		Edgewood Jr/Sr High School	Ms. Meredith Fredricks
J0513	What Is the Best	Method for Filtration of Water Containing F	Heavy Metals?
First Plac	e		
Junior	Engineering		
Nicholas M Ga	ug	DeLaura Middle School	Ms. Deborah Austin
J0727	Ice, Ice BabyP	utting An End To Pavement Damage	
Third Pla	ce		
Junior	Intelligent Mad	chines, Robotics, & Systems Software	
Deegan G Tarr	illo	DeLaura Middle School	Ms. Deborah Austin
J0908	Communicating F	Protocol: Smart Car Safety at Intersections	(Year 2)
Honorabl	e Mention		
Junior	Mathematics &	& Computational Sciences	
Jada R Jones		Edgewood Jr/Sr High School	Ms. Meredith Fredricks
J1007	Lightning vs Sola	r	
Third Pla	ce		

Junior Microbiology

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Alexander M LaFortune Cocoa Beach Junior/Senior High School Ms. Alberta Ruth Travers Contaminated vs Clean: The Effects of Radiation on the Growth of E.coli K-12 Bacteria J1107 Recognition **Junior** Physics & Astronomy Harrison A Tinker Holy Trinity Episcopal Academy Mrs. Jessica Kelce Can an Air Bubble Be Suspended in Water by Sound Waves of a Certain Frequency? J1222 Third Place **Plant Sciences Junior** Maximus L Schieman DeLaura Middle School Ms. Deborah Austin Putting the Nucleotide in Oligonucleotide-Directed Mutagenesis J1314 Third Place Senior Behavioral & Social Sciences Alyssa Russell Satellite High School Mr. Joe Scott S0214 The Sound of Music Third Place Senior Cellular/Molecular Biology & Biochemistry Summer L Van Orman Edgewood Jr/Sr High School Mr. Ryan Cilsick Effects of Endocrine Disrupting Compounds on Embryonic Growth Honorable Mention Senior Chemistry Connor J Wong Edgewood Jr/Sr High School Mr. Ryan Cilsick Ribulose-1, 5-Bisphosphate Carboxylase/Oxygenose Carbon Fixation in Rhizophora S0508 mangle Recognition Senior Earth & Environmental Sciences Kendall Karcher Satellite High School Mr. Joe Scott Wetland Preservation and Mosquito Control: An Integrated Approach S0615 Fourth Place Senior Engineering Abbey Havel Satellite High School Mr. Joe Scott Time to Bust the Mars Dust S0715 Recognition **Senior** Environmental Engineering Liam D Ballesty Edgewood Jr/Sr High School Mr. Ryan Cilsick River Monsters, An Underwater Autonomous Drone S0810 Second Place

Senior Microbiology

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Julia Hoffman		Satellite High School	Mr. Joe Scott
S1110	Busting Away Bio	ofilm	
Recogni	tion		
Senior	Physics & Ast	ronomy	
Sean M Kenr	nedy	Edgewood Jr/Sr High School	Mr. Ryan Cilsick
S1211	Reduction of Drag through Change in Wing Tip Style		9
Fourth F	Place		
Senior	Plant Science	S	
Lily M Tucciarone		Edgewood Jr/Sr High School	Mr. Ryan Cilsick
S1310		ergent and Foliar Application of Thu hispanica and Raphanus sativus	ıricide on Protein and Chlorophyll
	1 84 (*		

Honorable Mention

20 awards for Brevard: Intracoastal Region

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Brevard: Mainland

Bictara: ii	airnana		
Junior	Animal Science	ces	
Lasya Damara	aju	West Shore Jr. / Sr. High School	Ms. Mary Anderson
J0126	The Effect of Mic	robead Toxicity on Aquatic Organisms:	Part II
Third Pla	ace		
Junior	Biomedical &	Health Sciences	
Kishen Mitra		West Shore Jr. / Sr. High School	Ms. Mary Anderson
J0328	Do Exercise Leve	els Affect Post-Concussion Recovery?	
Fourth P	lace		
Junior	Cellular/Moled	cular Biology & Biochemistry	
Sarah A Bahse	oun	West Shore Jr. / Sr. High School	Ms. Mary Anderson
J0418	Does Miconazole cereviziae?	e Nitrate Affect Growth in Lipid Concentr	ation in Saccharomyces
Fourth P	lace		
Junior	Earth & Enviro	onmental Sciences	
Jordyn K Scha	aeffer	Lyndon B. Johnson Middle School	Mr. Greg Stauffer
J0628	Foram's Calcifyir	ng vs Ocean's Acidifying	
Recogni	tion		
Junior	Engineering		
Kyle A Johnson		West Shore Jr. / Sr. High School	Ms. Mary Anderson
J0746	Does the Placem	ent of a Propeller Blade on an Aircraft A	Affect Lift?
Honorab	le Mention		
Junior	Environmenta	l Engineering	
Kyle W Braml	blett	Sculptor Charter School	Mrs. Paula Lossner
J0828		nal Placement of Hard Shell Clams and Diaminize Filtration of Pollutants?	Eastern Oysters, Based on
Division	Grand Award Winner	r And First Place	
Junior	Intelligent Mad	chines, Robotics, & Systems Softwai	re
Matthew G La	rracas	Cocoa High School	Mrs. Cynthia Hornby
J0914	Can a Personal (Perform a Task?	Computer be Programmed to Fly a Quad	dcopter Autonomously and
First Pla	ce		
Junior	Mathematics	& Computational Sciences	
Nathan Foo		West Shore Jr. / Sr. High School	Ms. Mary Anderson
J1015	A Comparison of Forecasting	Deterministic and Stochastic Numerical	Models for Temperature
First Pla	ce		

Junior *Microbiology*

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Taqwa J Naas		West Shore Jr. / Sr. High School	Ms. Mary Anderson
J1119	Pseudomonas flu	uorescens to Bioremediate Oil at Differe	ent Salinities
Third Place	e		
Junior	Physics & Ast	ronomy	
Noah R Ogburn	ı	West Shore Jr. / Sr. High School	Ms. Mary Anderson
J1245	Can Synthetic Sh Surface?	narkskin Improve Aerodynamics and Re	educe Drag of a Vehicle's
Fourth Pla	ace		
Junior	Plant Science	S	
Asher G Dorfma	an	West Shore Jr. / Sr. High School	Ms. Mary Anderson
J1330	The Effects of All	elopathy	
Fourth Pla	ace		
Senior	Animal Science	es	
River C Grace		West Shore Jr. / Sr. High School	Ms. Mary Anderson
S0123		n the Blind: Evolutionary Regression a braminus, a Model for Understanding rders	
First Place			
Senior	Biomedical &	Health Sciences	
Srimayi Tenali		West Shore Jr. / Sr. High School	Ms. Mary Anderson
S0325	Portable Test for	Urinary Detection of Kidney Disease	
Second P	lace		
Senior	Cellular/Moled	cular Biology & Biochemistry	
Margarita Cruz-	Sanchez	West Shore Jr. / Sr. High School	Ms. Mary Anderson
S0433	Let There Be Lig dominant Retiniti	nt! rAAV Mediated Delivery of shRNA in s Pigmentosa	n a Canine Model of Autosomal-
Fourth Pla	ace		
Senior	Chemistry		
Kiera J Townse	nd	West Shore Jr. / Sr. High School	Ms. Mary Anderson
S0519	Anode Materials	in Microbial Fuel Cells	
Recognition	on		
Senior	Earth & Enviro	onmental Sciences	
Alexandra K Ga	brielski	Viera High School	Ms. Elizabeth Youngs
S0633	Algaethe Gree	ener Fuel, Year Five	-
Third Place	ee		

Senior Engineering

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Mamoon H Sy	ed	West Shore Jr. / Sr. High School	Ms. Paula Ladd
S0736	Design of an Incr Capabilities: Yea	eased Efficiency UAV by Integrating are	a VTOL Platform with Fixed Wing
Fourth P	lace		
Senior	Environmenta	l Engineering	
Mario R Sultar	า	West Shore Jr. / Sr. High School	Ms. Mary Anderson
S0826	Water Electrolysi	s for Fueling Vehicles	
Honorab	le Mention		
Senior	Intelligent Mad	chines, Robotics, & Systems Softv	vare
Jeremy W Glu	ck	West Shore Jr. / Sr. High School	Ms. Paula Ladd
S0915	Comparing Differ Binary Classifica	ent Computational Models Including lition Problem	Multilayer Perceptrons Applied to a
Recognit	tion		
Senior	Mathematics of	& Computational Sciences	
Muhammad U	Abdulla	West Shore Jr. / Sr. High School	Ms. Paula Ladd
S1026	Stochastic Analy	sis in Biomedical Engineering: Identif	ying Acute Myocardial Infraction
Second	Place		
Senior	Microbiology		
Taylor A Jenk	(0	Viera High School	Ms. Elizabeth Youngs
S1128		n of Folate to <i>Saccharomyces cerevis</i> e Treatment to DNA Damage Caused	
Third Pla	ace		
Senior	Plant Science	S	

West Shore Jr. / Sr. High School

The Correlation Between Artificial Oyster Reef Placement's Effect on Calcium Levels in the Indian River Lagoon by Assessing the Cell Wall Thickness of Mangroves: Year III

Ms. Paula Ladd

Second Place

Anna C Feldbush

22 awards for Brevard: Mainland Region

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Brevard: South

Junior	Biomedical &	Health Sciences	
Ritika Jeloka		Stone Magnet Middle School	Mr. Richard Regan
J0335	The Effects of Ca Roach, <i>Blaberus</i>	offeine and Serotonin on the Rate of Neuro discoidalis	otransmission in the Dicoid
Division G	Grand Award Winner	And First Place	
Junior	Cellular/Molec	cular Biology & Biochemistry	
Pooja Shah		Stone Magnet Middle School	Mr. Richard Regan
J0421	The Effects of Gr	een Tea Extract on Enzyme Activity	
Third Place	ce		
Junior	Earth & Enviro	onmental Sciences	
Anna Osborne		Stone Magnet Middle School	Mr. Richard Regan
J0634	Investigating the	Antifouling Properties of Capsaicin vs a N	lano-Scale Textured Surface
Third Place	ce		
Junior	Engineering		
Jordan Kalajian	1	Hoover Middle School	Mrs. Pamela Schmiedeberg
J0753	Which Structure	Will Hold the Ultimate Load?	
Fourth Pla	ace		
Junior	Environmenta	l Engineering	
William Giniews	ski	Hoover Middle School	Mrs. Pamela Schmiedeberg
J0830	To Filter or Not to	Filter	
Recognition	on		
Junior	Mathematics &	& Computational Sciences	
Wilson Burgos		Stone Magnet Middle School	Mr. Richard Regan
J1018	Modeling Disease	e Epidemiology Using StarLogo Nova	
Honorable	e Mention		
Junior	Microbiology		
Elissa Bell		Stone Magnet Middle School	Mr. Richard Regan
J1121	A Comparison of Gram Positive Ba	the Anitmicrobial Properties of Farmed Sacteria	hrimp and Wild Shrimp on
Second P	lace		
Junior	Physics & Ast	ronomy	
Luke Fields		Stone Magnet Middle School	Mr. Richard Regan
J1252	Investigating the	Ability of Non-Newtonian Fluids to Reduc	e Blunt Force Impact
Fourth Pla	ace		

Junior Plant Sciences

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Jeanna Christenson Stone Magnet Middle School Mr. Richard Regan Enhancing Plant Growth Using an Invertebrate Based Aquaponics System J1335 Recognition Senior **Animal Sciences** Kiana M Padilla Mr. Michael O'Donell Palm Bay High School Analyzing the Effects of Plant Extracts on the Heartrate of Crayfish S0127 Honorable Mention Senior Behavioral & Social Sciences Devon M Murphy Palm Bay High School Mr. Michael O'Donell An Analysis of Alzheimers Linked through Aspartame on the Aminergic Control of Social S0233 Status in Crayfish Agonistic Encounters Recognition **Senior** Chemistry Daniella D Bernadel Palm Bay High School Mr. Michael O'Donell The Effects of Gibberellic Acid and Temperature on Macroalgal Lipid Content S0523 Division Grand Award Winner And First Place Senior Earth & Environmental Sciences Kenneth M West Melbourne High School Mrs. Laura Zamora S0640 Shade Balls Fourth Place **Senior** Environmental Engineering Melbourne Central Catholic High School Gary G Turner Ms. Candee Terry Projected Biological Air Renewal System in a Martian BioCapsule Environment: Testing S0829 Algae Oxygen Production to Utilize for Sustainable O2 Recycling Third Place Senior Intelligent Machines, Robotics, & Systems Software Logan Bolick Bayside High School Mr. Aaron Mitchell Design and Construction of an Autonomous Tire Monitoring Robot S0918 Fourth Place Senior Microbiology Ceili E Masterson Palm Bay High School Mr. Michael O'Donell The Presence, Species Composition, Antibiotic Resistance and Virulence Potential of S1132 Vibrio Bacteria from Commercially Purchased Brown Shrimp, Farfantepenaeus aztecus Division Grand Award Winner And First Place **Senior** Plant Sciences Bayside High School Whitney M Snyder Mr. Aaron Mitchell Phytoremediation of Hydrocarbons Using Cynodon dactylon S1332

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Honorable Mention

17 awards for Brevard: South Region

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Broward

Junior	Animal Sciences
Gauri Kasarla	American Heritage School Mrs. Leya Mathew Joykutty
J0115	The Effects of Barbados Cherries, Pomegranate, Shiitake Mushrooms, and Tetrahydroxystilbene-2-0-Beta_D Glucoside on the Inhibition of Oxidative Stress and the Production of Advanced of Glycation End Products (AGES) in <i>C. elegans</i>
Third Pla	ace
Junior	Biomedical & Health Sciences
Kevin D Fiorill	o-Berger New River Middle School Ms. Barbara Rapoza
J0319	PRAOS KC- Protective Robotic Anti-Accident Operational System Kid Care V2.0
Second	Place
Junior	Chemistry
Angelin T Mat	
J0521	Thirsty for BPA?
Fourth P	Place
Sumaiya Rahi	
J0522	Homemade Lead Detector
Second	Place
Janae A Simp	son Franklin Academy Ms. Traci Lipman
J0523	How Does Salt Affect Hydrogen Gas Produced in Electrolysis?
Fourth P	Place
Junior	Earth & Environmental Sciences
Diya K Jayran	Walter C. Young Middle School Mrs. Alisa Smith
J0619	Save Nepal: A Study on Protection Efficiency of Multiple Vegetation Layers in Reducing Landslide Vulnerability
Honorab	ole Mention
Junior	Environmental Engineering
Nicholas Valle	jo Saint Mark the Evangelist Catholic School Ms. Amanda Potenza
J0818	LEAD OFF: Finding The Best Electrolyte for a Fuel Cell
Fourth F	Place
Junior	Plant Sciences
Rajat Ramesh	American Heritage School Mrs. Leya Mathew Joykutty
J1319	Impact of Invasive Species Java Plum, Brazilian Pepper, Melaleuca, and Casuarina on the Growth of Lettuce, Tomato and Dandelion Seeds
Second	Place
Conior	Animal Saianaca

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Senior Animal Sciences

Elizabeth R Fe		Pine Crest School	Ms. Jennifer Gordinier
S0112	DNA Barcoding I Single Species	Jsing ITS2 and COI Confirms Iden	tification of <i>N. cepedianus</i> as a
Fourth Pl	ace		
Trishala Kuma	r	American Heritage School	Mrs. Leya Mathew Joykutty
S0113		giogenic Potential of Peptides Extra ig <i>Danio reri</i> o and <i>Gallus gallus</i> as	
Recognit	ion		
Senior	Biomedical &	Health Sciences	
Navya Baranw	al	Miramar High School	Ms. Trisha Borrero
S0316	Leukemia Inhibit	ory Receptor Factor as a Tumor Su	ippressor in Breast Cancer
Fourth Pl	ace		
Juliette M Pozz		Pine Crest School	Ms. Jennifer Gordinier
S0317	The Effects of No Behaviors	ociceptin Receptor Agonist, SR-899	33 on Cocaine Addiction Related
Recognit	ion		
Senior	Cellular/Moled	cular Biology & Biochemistry	
Maryam Iqbal		West Broward High School	Mr. Nicholas White
S0422	Artificial Sweeter	ner Damage and Repair to <i>Vigna ra</i>	adiata
Recognit	ion		
Zara E Joykutt		American Heritage School	Mrs. Dawn Gregor
S0423		ch Toward Therapy of Triple Negati and αV Integrins in Combination wit	
Third Pla	се		
Yiyun Pan		American Heritage School	Mrs. Leya Mathew Joykutty
S0424		gh-affinity, BPTI Based Inhibitor of Modeling and Docking Studies	Human Alpha-Thrombin Using in
Third Pla	ce		
Senior	Chemistry		
Malini Basu		Pine Crest School	Ms. Jennifer Gordinier
S0511		icity of Dopamine and Ascorbic Aci ng Nitrogen Doped Porous Carbon	
Third Pla	се		
Kelly Litts		Saint Thomas Aquinas High School	Mrs. Laura Shearer
S0512		alyzation on Transesterification an diesel from <i>Jatropha curca</i> s Oil ver	

Senior Earth & Environmental Sciences

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Nicola Odzar		Ding Creat Cabaci	Ms. Jennifer Gordinier
Nicole Odzer	Toxicity of Nanh	Pine Crest School	
S0623	Effect of a Major		drocarbon, on <i>Porites divaricata</i> : The origer Coral and the Exploration of a
		osing recinique	
Third Place	ce		
Devin M Smith	D " " FIN"	South Broward High School	Ms. Larisa Spanu
S0624	Predicting El Nin	o-Celestial Events and Their Rela	tion to Giodai Climate Patterns
Recogniti	on		
Senior	Engineering		
Juan A Cabrera	a	South Plantation High School	Mr. Gustavo Junco
S0728	A Step Forward	into the Greener Future	
Fourth Pl	ace		
Jubin Gorji		Pine Crest School	Ms. Jennifer Gordinier
S0729	A Portable Low-Generate Renew	Cost Device Employing Recycled Syable Electricity	Synchronous Electric Motors to
Second F	Place		
Senior	Mathematics	& Computational Sciences	
Jared M Geller		Pine Crest School	Ms. Jennifer Gordinier
S1016	Patterns in the C	ontinued Fraction Expansions of \	/arious Infinite Series
Second F	Place		
Suganth Kanna		American Heritage School	Mrs. Leya Mathew Joykutty
S1017	Innovative Enzyr	natic Model to Diagnose Disease	and Provide Personalized Medicine
Recogniti	on		
Padmavathi Re	eddy	American Heritage School	Mrs. Leya Mathew Joykutty
S1018	A Study of the S Strains	milarities Among Amino Acid Sequ	uences of Paramyxoviridae Viral
Honorabl	e Mention		
Senior	Microbiology		
Lauren K Enter	ı	Saint Thomas Aquinas High School	Mrs. Laura Shearer
S1116	Leveraging the A	Antimicrobial Properties of Jatroph	a curcas in Suture Engineering
Second F	Place		
Hemangi Rajpa		American Heritage School	Mrs. Leya Mathew Joykutty
S1118	Assaying the Following lactis and L. mes	rmation of Beneficial Biofilms by <i>L.</i> senteroides and the Effect of Ayurv s a Potential Model to Limit Pathog	vedic Plant Extracts on Their
Third Place	ce		
Senior	Plant Science	28	
Nithya Kasarla		American Heritage School	Mrs. Leya Mathew Joykutty
S1316		lase RS and Macrozyme R-10 Rat	
First Plac	<u> </u>	. 5	<u> </u>

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27 awards for Broward Region

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Capital

Junior	Biomedical &	Health Sciences	
Katherine N Ly	ons ons	Maclay School	Mrs. Mary King
J0334	Does a High-Fat	Diet Affect Drosophila melanogaster?	
Second I	Place		
Junior	Cellular/Moled	cular Biology & Biochemistry	
Akhil K Shiju		Deerlake Middle School	Mrs. Missy Atkinson
J0420	The Anaerobic R	espiration by Yeast	
Recognit	ion		
Junior	Earth & Enviro	onmental Sciences	
Brock H Woml	ole	Deerlake Middle School	Mrs. Missy Atkinson
J0633		kes: Conducting Water Quality Tests to Di Nonpoint Source Pollution Levels	Determine the Impact of
Fourth P	lace		
Junior	Engineering		
Nikolai D Abra	imov	Deerlake Middle School	Mrs. Missy Atkinson
J0752	Model of a Warre	en Truss Bridge	
Recognit	ion		
Junior	Mathematics	& Computational Sciences	
Madeleine B R	oberts	Maclay School	Mrs. Mary King
J1017	Cryptic Conspira Bitcoin	cy: A Statistical Analysis of Possible Fac	tors Driving the Value of
Third Pla	ice		
Senior	Behavioral &	Social Sciences	
Charles E Burn	ney	North Florida Christian School	Mr. Eric Simpkins
S0230	Are Violent Video	Games Teaching Anger and Socialized	Aggression?
Honorab	le Mention		
Senior	Cellular/Moled	cular Biology & Biochemistry	
Sampath Kum	ar	Lawton Chiles High School	Ms. Angela Breza-Pierce
S0438	Interactions betw Formation	veen Histones and IDH Contribute to Child	dhood and Adult Glioblastoma
Fourth P	lace		
Senior	Chemistry		
Aditya Hota		James S. Rickards High School	Dr. Paula Hall
S0522	Piezoelctric Gen	eration through Carbon Nanotube Thin Fi	lms.
Second I	Place		

Senior Earth & Environmental Sciences

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Dhenu P P	atel	Maclay School	Mrs. Mary King
S0639	Does BPA	Affect Artemia salina?	
Reco	gnition		
Senior	Mathema	atics & Computational Sciences	
	5	Maclay School	Mrs. Mary King
Sadhana S	Ponnaluri	Maday Odilooi	ivii 3. ividi y ixii ig

Fourth Place

10 awards for Capital Region

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Citrus

Junior	Animal Science	es	
Elise M Leturno		Lecanto Middle School	Mrs. Rebecca Clymer
J0118	Chickens + Spani	sh Peanuts = Bigger Eggs?	
Fourth Pla	ice		
Junior	Biomedical & I	Health Sciences	
Ashlyn J Hunnid	cutt	Inverness Middle School	Mr. Steve Crandall
J0321	Round Two: Moza	art vs. Metallica: Music Effects on Oxyger	n Saturation
Third Place	е		
Junior	Environmental	Engineering	
Joshua D Brunk	(Inverness Middle School	Mrs. Nancy Shaffer
J0822	We've Got the Po	wer, Solar Power!	
Fourth Pla	ice		
Senior	Environmental	Engineering	
William B Merri	tt	Academy of Environmental Science	Mr. Ward Cooper
S0822	Glass Spheres Fo	or Reducing Surface Water Lost	

Honorable Mention

4 awards for Citrus Region

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Clay Rotary

Junior	Animal Science	ces	
Jack S Coo	ksey, Jr.	Grace Episcopal Day School	Mrs. Susan Lindholm
J0123	Phototaxis of Mos	squitoes and Flies	
Honor	rable Mention		
Junior	Earth & Enviro	onmental Sciences	
Brogan O (Covey-Shannon	Green Cove Springs Junior High School	Mrs. Carrie Costello
J0626	Arduino Lawn Ca	re	
Third	Place		
Junior	Engineering		
Sebastian k	Kouchakjy	Lakeside Junior High School	Mr. Anthony Rodesney
J0744	Testing Aerodyna	amics and Drag of 6 Rocket Fin Designs	
Third	Place		
Senior	Engineering		
Nathan R M	lartus	The Oakleaf School	Miss Jennifer Butler
S0735	Measuring the Ef	ficicency of Rapid Prototyping Using a 3I) Printer
Secor	nd Place		
Senior	Mathematics 8	& Computational Sciences	
Zachary J E	Barken	Clay High School	Mrs. Tracey Kumm
S1025	An Analysis of the Matter and Dark	e Gravitational Energy of Galactic Mass a Energy	nd Its Application to Dark
	n Diago		

Fourth Place

5 awards for Clay Rotary Region

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Co	ı	ı	ı	е	r

Odilioi			
Junior	Biomedical &	Health Sciences	
Sydney M Edwa	ards	Pine Ridge Middle School	Mr. Greg Anthony
J0303	Testing The Spec	cific Carbohydrate Diet: Legal and Illegal F	oods vs Amount of Sugar
Third Plac	е		
Micah H Evans		North Naples Middle School	Mrs. Casey Mathis
J0304	Iron Man: What E Dissolving in the	Effects Does Different Acidity Levels Have of Stomach?	on the Speed of Iron
Recognition	on		
Junior	Chemistry		
Madeline G Ma	air	Pine Ridge Middle School	Mr. Patrick Heath
J0508	Disposable Diape	ers: Are You Really Getting What You Paid	For?
First Place			
Junior	Earth & Enviro	onmental Sciences	
Alex R D'Arco		Pine Ridge Middle School	Mr. Patrick Heath
J0608	Potential Use of	Tardigrades for the Presence of Acid Rain	
First Place	 e		
Junior	Engineering		
Antonia M LoFr		Pine Ridge Middle School	Mr. Gregory Anthony
J0715		Weight Sustained	3. 333. 7
Honorable			
Sai T Rachuma	lla	East Naples Middle School	Ms. Carolyn Palumbo
J0716	Can itGet A Grip	o?	
Recognition	on		
Gareth J Rosal		East Naples Middle School	Ms. Carolyn Palumbo
J0717	Trouble with Turk	pines	
Fourth Pla	асе		
Junior	Environmenta	I Engineering	
Sydney L Brisso	on	Pine Ridge Middle School	Mr. Brian Twar
J0805	The Drop that Ch	nanges The World	
Fourth Pla	ace		
Nicholas F Cos	stantini	Saint Ann School	Mrs. Katherine Farinacci
J0806	Silence Is Golder	n, But Can It Be Green?	
Third Place	 ce		
Junior	Intelligent Mad	chines, Robotics, & Systems Software	
Charles T Char		Oakridge Middle School	Mrs. Georgette Wright
J0905		n Media Composition Affect Ultrasonic Way	-
Fourth Pla			
roultii Pla	30 0		

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,	Junior	Plant Sciences	S	
	Osei J.A Allen		Oakridge Middle School	Mrs. Deborah Eddleman
	J1309	Does Landscapin	g Fabric Affect a Plant's Ability to Receive	Water?

Recognition

11 awards for Collier Region

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Dr. Nelson Ying Expo - Orange

	<u> </u>		
Junior	Behavioral &	Social Sciences	
Ella M Phillips	;	International Community School	Mrs. Terry Davis
J0216	Does Music Affe	ct Your Running Pace?	
Recogni	tion		
Junior	Cellular/Moled	cular Biology & Biochemistry	
Hannah F Mc	Gahey	International Community School	Mrs. Terry Davis
J0416	The Challenges	and Barriers of Creating and Simulating an	Artificial Pancreas
Fourth F	Place		
Junior	Chemistry		
Eleanor R Ra	der	Lake Eola Charter School	Mr. Bob Madewell
J0529	Power in a Pinch		
Recogni	tion		
Junior	Earth & Enviro	onmental Sciences	
Sophia L Full	oright	International Community School	Mrs. Terry Davis
J0623	The Effect or Aer	ration on Alkalinity and Phosphate Levels i	n Watering Troughs
First Pla	се		
Junior	Environmenta	l Engineering	
Alaila R Cham	npion	International Community School	Mrs. Terry Davis
J0824	WOW! Horse Po	op is Powerful	
Recogni	tion		
Junior	Intelligent Mad	chines, Robotics, & Systems Software	
Mikhail Mikha	aylov	Union Park Middle School	Ms. Peggy Trapp
J0912	Can a Robot Mal	ke Its Own Decision?	
Recogni	tion		
Junior	Mathematics	& Computational Sciences	
Ryan M Guari	no	Maitland Middle School	Dr. Anne Albright
J1013	The Effect of Hou	usehold Items on WiFi Signal Strength	
Recogni	tion		
Junior	Microbiology		
Monet T Jowe	ers	Avalon Middle School	Mrs. Fadia Hussien
J1115		specting for Endophytic Antibiotic Potentia emosa, and <i>Rhizophora mangle</i>	al: Avicenna germinans,
Division	Grand Award Winner	r And First Place	

Division Grand Award Winner And First Place

Junior Physics & Astronomy

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Matthew C Lyn		Blankner K-8 School	Mrs. Jacqueline Bonner
J1239	Battle of the Axes	s: Comparing the Pitch of Electric Guitars:	: Gibson vs Fender
Honorabl	e Mention		
Junior	Plant Science	s	
Uma A Menon		Florida Virtual School	Mrs. Kimberly Cloran
J1327	The Ferocious You	ellow Dragon: Citrus Greening Disease	
First Plac	ce		
Senior	Behavioral &	Social Sciences	
Mehak Batta		Lake Highland Preparatory School	Mrs. Zasha A. Mickey
S0223		Behavioral Changes in Nursing Best Prac ated Healthcare Environment Scenarios	ctices as a Consequences of
Second F	Place		
Mackenzie T B		Lake Highland Preparatory School	Mrs. Zasha A. Mickey
S0223		Behavioral Changes in Nursing Best Prac ated Healthcare Environment Scenarios	ctices as a Consequences of
Second F	Place		
Senior	Biomedical &	Health Sciences	
Stephany A Bu	stamante	Lake Highland Preparatory School	Mrs. Nicole A. Justice
S0321	Platelet Estimation	on: A Semi-Quantitative Method Using the	Miller Disc: Year II
Honorabl	e Mention		
Alexa-Rae Wh	eeler	Lake Highland Preparatory School	Mrs. Nicole A. Justice
S0321	Platelet Estimation	on: A Semi-Quantitative Method Using the	Miller Disc: Year II
Honorabl	e Mention		
Senior	Cellular/Moled	cular Biology & Biochemistry	
Millie Chokshi		Lake Highland Preparatory School	Mrs. Nicole A. Justice
S0430		ctopic Expression of microRNA's Targeting ostate Cancer Cells	g the Androgen Receptor on
Recognit	ion		
Senior	Chemistry		
Saumya S Sac)	Trinity Preparatory School	Mr. Michael Arney
S0515		o-nitrophenol Reduction with Anisotrophic on of Paracetamol	Au Nanoparticles for the
Third Pla	ce		
Senior	Earth & Enviro	onmental Sciences	
Cathleen T Me	stre	Lake Highland Preparatory School	Mrs. Nicole A. Justice
S0628	Global Warming	and El Niño Southern Oscillation Cycles E	Effect on Sea Turtles
First Plac	ce		
Senior	Engineering		

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Amber Z Yang		Trinity Preparatory School	Mr. Michael Arney
S0732		on System for Space Debris Tracking Usin nner Brain GPS to Outer Space GPS	,
Division G	Grand Award Winner	And First Place	
Senior	Environmental	l Engineering	
Whitney S Bear	mer	Lake Highland Preparatory School	Mrs. Zasha A. Mickey
S0825	Genome-wide As of Traits in <i>P. del</i>	sociation Studies and the Identification of toides	Markers for the Improvement
Fourth Pla	ace		
Senior	Microbiology		
Vrinda Madan		Lake Highland Preparatory School	Mrs. Nicole A. Justice
S1123	Analyzing the Me	chanisms of Actions of Highly Selective A	nti-Malarial Compounds
Second P	lace		
Senior	Physics & Astr	ronomy	
Parker J Coye		Lake Highland Preparatory School	Mrs. Nicole A. Justice
S1221	Breakage of SET Graphene	Nanowires and Determination of the Resi	sting Constant for Multilayer
First Place	e		
Senior	Plant Sciences	s	
Anjeli V Nandw	ani	Lake Highland Preparatory School	Mrs. Nicole A. Justice
S1324	The Effects of Az	adirachta and <i>Dysphania ambrosiodes</i> on	Whiteflies

Third Place

22 awards for Dr. Nelson Ying Expo - Orange Region

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East Panhandle

	4 / / 6 /		
Junior	Animal Science		
Kadi Casey		Saint Mary Catholic School	Mrs. Laura McNeill
J0110	Web Worm Wars		
Recogni	ition		
Junior	Biomedical &	Health Sciences	
Calvin S Bool		Saint Mary Catholic School	Mrs. Laura McNeill
J0307		ffects of Gluten Cross-Contamination be ntion Methods for Consumers	etween Food Product and Pan
Third Pla	ace		
Makenzie J M		Liza Jackson Preparatory School	Ms. Tangela Frazier
J0308	Bisphenol-A Rele BPA from Alumin	ease Identification: The Effect of Exposulum Cans	re to Heat on the Release of
Second	Place		
Junior	Cellular/Molec	cular Biology & Biochemistry	
Alexandra Ma		Saint Mary Catholic School	Mrs. Laura McNeill
J0408	Effectiveness of I	Electrolysis on Sterilization and Circumfe	erential Burns
Honoral	ole Mention		
Junior	Chemistry		
Ethan R Lind		Okaloosa STEMM Academy	Mrs. Sarah Wilson
J0509	Real-Life Termina	ator Skin	
Recogni	ition		
Junior	Earth & Enviro	onmental Sciences	
Joey T Enguid	danos	Okaloosa STEMM Academy	Mrs. Sarah Wilson
J0610	Toxins Effect on	Daphnia	
Recogni	ition		
Elizabeth Ash		Davidson Middle School	Ms. Sharon Richardson
J0611	A Glow in the Da	rk Phenomena	
Fourth F	Place		
Junior	Engineering		
Grayson W B	Brobeck	Okaloosa STEMM Academy	Mrs. Sarah Wilson
J0720	EMP Power	-	
Second	Place		
Dane D Dicke		Okaloosa STEMM Academy	Mrs. Sarah Wilson
J0721	Good Vibes: How	Magnetic Suspension Reduces Vibration	ons
Second	Place		

Second Place

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Charles B Sher		Okaloosa STEMM Academy	Mrs. Sarah Wilson
J0722	Cool It		
Third Plac			
Junior	Environmental	Engineering	
Caroline C Orcu	ıtt	Liza Jackson Preparatory School	Ms. Tangela Frazier
J0807	OMG - Oh My Gy	res! A Study of Methods to Remove Ocean	n Trash
Third Place	 :e		
Eshaan Sharma	_	C. W. Ruckel Middle School	Mrs. Scarlett Brock
J0808	Fireproofing Texti	les with <i>Zea mays</i> Ash	
Third Place			
Tilliu Piac	æ		
Junior	Physics & Astr	ronomy	
Emily S Daldine		Saint Mary Catholic School	Mrs. Laura McNeill
J1218	Imploding Bubble	S	
Second P	lace		
Mikayla A Linds	ay	Okaloosa STEMM Academy	Mrs. Sarah Wilson
J1219	Self Folding Origa	ami	
First Place			
Senior	Behavioral & S	Social Sciences	
Skylar C Denni		Collegiate High School at NWFSC	Dr. Sean Psujeck
Skylar C Denni S0211	s Efficacy on Self-D		Dr. Sean Psujeck
•	Efficacy on Self-D		Dr. Sean Psujeck
S0211	Efficacy on Self-D		Dr. Sean Psujeck
S0211 Recognition	Efficacy on Self-Don Chemistry		Dr. Sean Psujeck Mrs. Gina Emery
S0211 Recognition Senior	Efficacy on Self-Don Chemistry	Diagnosis	Mrs. Gina Emery
S0211 Recognition Senior Liam A Ordner	Efficacy on Self-Don Chemistry Maximizing Efficie	Diagnosis Niceville High School	Mrs. Gina Emery
S0211 Recognition Senior Liam A Ordner S0507	Efficacy on Self-Don Chemistry Maximizing Efficience	Diagnosis Niceville High School	Mrs. Gina Emery
S0211 Recognition Senior Liam A Ordner S0507 Fourth Plat Senior	Efficacy on Self-Don Chemistry Maximizing Efficience Engineering	Niceville High School ency of Hot Electron Emission in Aqueous	Mrs. Gina Emery Colloidal Gold Nanoparticles
Social Recognition Senior Liam A Ordner S0507 Fourth Plat Senior Daniel C Bobbit	Efficacy on Self-Don Chemistry Maximizing Efficience Engineering t	Niceville High School ency of Hot Electron Emission in Aqueous Niceville High School	Mrs. Gina Emery Colloidal Gold Nanoparticles Mrs. Gina Emery
S0211 Recognition Senior Liam A Ordner S0507 Fourth Plat Senior	Efficacy on Self-Don Chemistry Maximizing Efficience Engineering t	Niceville High School ency of Hot Electron Emission in Aqueous Niceville High School - Manipulating the Components of a Tesla	Mrs. Gina Emery Colloidal Gold Nanoparticles Mrs. Gina Emery
Social Recognition Senior Liam A Ordner S0507 Fourth Plat Senior Daniel C Bobbit	Efficacy on Self-Don Chemistry Maximizing Efficience Engineering t Go with the Flow Apply Them to Ce	Niceville High School ency of Hot Electron Emission in Aqueous Niceville High School - Manipulating the Components of a Tesla	Mrs. Gina Emery Colloidal Gold Nanoparticles Mrs. Gina Emery
So211 Recognition Senior Liam A Ordner S0507 Fourth Plat Senior Daniel C Bobbit S0710	Efficacy on Self-Don Chemistry Maximizing Efficience Engineering t Go with the Flow Apply Them to Cellace	Niceville High School ency of Hot Electron Emission in Aqueous Niceville High School - Manipulating the Components of a Tesla	Mrs. Gina Emery Colloidal Gold Nanoparticles Mrs. Gina Emery
Socond P	Efficacy on Self-Don Chemistry Maximizing Efficience Engineering t Go with the Flow Apply Them to Cellace	Niceville High School ency of Hot Electron Emission in Aqueous Niceville High School - Manipulating the Components of a Tesla ertain Situations	Mrs. Gina Emery Colloidal Gold Nanoparticles Mrs. Gina Emery Turbine in Order to Better Ms. Devon Stewart
S0211 Recognition Senior Liam A Ordner S0507 Fourth Plat Senior Daniel C Bobbitt S0710 Second P Alexis R Hopkir	Chemistry Maximizing Efficience Engineering t Go with the Flow Apply Them to Cellace is Optimal Optical: \	Niceville High School ency of Hot Electron Emission in Aqueous Niceville High School - Manipulating the Components of a Tesla ertain Situations Fort Walton Beach High School	Mrs. Gina Emery Colloidal Gold Nanoparticles Mrs. Gina Emery Turbine in Order to Better Ms. Devon Stewart
Socond P Alexis R Hopkin Socond P Recognition Recognition Recognition	Chemistry Maximizing Efficience Engineering t Go with the Flow Apply Them to Cellace Is Optimal Optical: V	Niceville High School ency of Hot Electron Emission in Aqueous Niceville High School - Manipulating the Components of a Tesla ertain Situations Fort Walton Beach High School /isual Performance Enhancement Using a	Mrs. Gina Emery Colloidal Gold Nanoparticles Mrs. Gina Emery Turbine in Order to Better Ms. Devon Stewart
Socond P Alexis R Hopkin Sor11 Recognition Senior Liam A Ordner So507 Fourth Plates Senior Daniel C Bobbitt So710 Second P Alexis R Hopkin So711 Recognition	Chemistry Maximizing Efficience Engineering t Go with the Flow Apply Them to Cellace is Optimal Optical: \	Niceville High School ency of Hot Electron Emission in Aqueous Niceville High School - Manipulating the Components of a Tesla ertain Situations Fort Walton Beach High School //isual Performance Enhancement Using a	Mrs. Gina Emery Colloidal Gold Nanoparticles Mrs. Gina Emery Turbine in Order to Better Ms. Devon Stewart Trigger Detection System
Social Recognition Senior Liam A Ordner S0507 Fourth Plat Senior Daniel C Bobbit S0710 Second P Alexis R Hopkin S0711 Recognition Senior Camille A Miles	Efficacy on Self-Don Chemistry Maximizing Efficience Engineering t Go with the Flow Apply Them to Cellace as Optimal Optical: Von Environmental	Niceville High School ency of Hot Electron Emission in Aqueous Niceville High School - Manipulating the Components of a Tesla ertain Situations Fort Walton Beach High School /isual Performance Enhancement Using a	Mrs. Gina Emery Colloidal Gold Nanoparticles Mrs. Gina Emery Turbine in Order to Better Ms. Devon Stewart Trigger Detection System Mrs. Gina Emery
Socond P Alexis R Hopkin Sor11 Recognition Senior Liam A Ordner So507 Fourth Plates Senior Daniel C Bobbitt So710 Second P Alexis R Hopkin So711 Recognition	Efficacy on Self-Don Chemistry Maximizing Efficience Engineering t Go with the Flow Apply Them to Cellace as Optimal Optical: Von Environmental	Niceville High School ency of Hot Electron Emission in Aqueous Niceville High School - Manipulating the Components of a Tesla ertain Situations Fort Walton Beach High School //isual Performance Enhancement Using a	Mrs. Gina Emery Colloidal Gold Nanoparticles Mrs. Gina Emery Turbine in Order to Better Ms. Devon Stewart Trigger Detection System Mrs. Gina Emery

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S	Senior	Plant Sciences	S	
	Lauren J Matth	news	Niceville High School	Mr. Jeremiah Mayville
			· ·	oculant for Pulses. Ideal Conditions for
_	S1308	•	· ·	oculant for Pulse

Fourth Place

20 awards for East Panhandle Region

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Heartland

Junior	Animal Science	ces	
Emma R McGu	ckin	Hardee Junior High School	Mrs. Kimberly McGuckin
J0116	Do Various Amor Year Two	unts of Ammonium Sulfate Affect the Survi	val Rate of <i>Daphnia magna</i> ?
Fourth Plan	ace		
Mason J Price		Avon Park Middle School	Mr. Steven Manley
J0117	Kill the Worms To	wo	
Third Place	се		
Junior	Cellular/Moled	cular Biology & Biochemistry	
Rohin P Patel		Hill-Gustat Middle School	Mrs. Kelsey Dean
J0414	Fishy Business :	Seafood Authentification by DNA Barcodin	ng
Second P	lace		
Junior	Chemistry		
Dylan W Davis		Hardee Junior High School	Mrs. Kimberly McGuckin
J0524	Does Temperatu Three	re Affect Dairy Waste Decomposition in the	e Production of Biogas? Year
Honorable	e Mention		
Junior	Plant Science	s	
Pate M Collins		Sebring Middle School	Ms. Sarah Miller
J1321		sphorous (P) Removal by Water Hyacinth Pensity of the Plants?	Eichhornia crassipies
Recogniti	on		
Karson J Good	wyn	Hardee Junior High School	Mrs. Kimberly McGuckin
J1322	Does the Cooking Acid) Content?	g Method of <i>Brassica olerarea</i> (Broccoli) A	ffect the Vitamin C (Ascorbic
Honorable	e Mention		
Henry Juliano		Sebring Middle School	Mrs. Donna Tomlinson
J1323	Hydroponics		
Second P	lace		
Dhruv Manik		Hill-Gustat Middle School	Mrs. Kelsey Dean
J1324	Roots from Fruits	3	
First Plac	e		
Senior	Animal Science	ces	
Zachary R Kiell	oasa	Okeechobee High School	Mrs. Wendy Reister
S0114	Using Microfiber	Towels to Control Hive Beetles	
Honorable	e Mention		

Senior Environmental Engineering

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Johnathan F F	ox	Okeechobee High School	Mrs. Wendy Reister	
		eveloped Using FeCl2 and CMC Treated Brazilian Pepper Fibers to hates Also Sequester Nitrates ? A Third Year Study		
Recognit	tion			
Senior	Microbiology			
Zackary D Dur	astanti	Hardee High School	Mr. Robert Beatty	
S1119	What is the Antib Field?	otic Effect on Gram Positive and	Gram Negative Bacteria in a Magnetic	
Honorab	le Mention			
Cady C McGe	hee	Okeechobee High School	Mrs. Wendy Reister	
S1120 The Potential Sol Three Year Study		urces of Contamination of <i>Mycoplasma bovis</i> on a Dairy Farm - A		
Third Pla	ice			
Senior	Physics & Asti	ronomy		
Michael G Mui	ros	Okeechobee High School	Mrs. Wendy Reister	
S1217	Sound Deflection Music	& Dispersion - Practical Applicati	ion through Sound Production and	
Fourth P	lace			
Donny N Stine	r	DeSoto High School	Mr. Vladislav Solokah	
S1218	Magnetic Attraction	on III		
Fourth P	lace			
Senior	Plant Sciences	S		
Mike Trevino		Hardee High School	Mr. Robert Beatty	
S1318	Does an Electrica	l Current Affect the Growth of a L	ima Bean ?	

Recognition

15 awards for Heartland Region

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Hernando

Homanao			
Junior	Animal Science	ces	
Lane M Beck		Winding Waters K-8	Mrs. Julie Brady
J0130	<i>Apis mellifera</i> Dr	ift	
Recognit	tion		
Junior	Behavioral &	Social Sciences	
Annelise Youn	gblood	Challenger K8	Mr. Greg Shaw
J0221	The Effect of Ge	nder on Color Identification in Dim Light	
Recognit	tion		
Junior	Chemistry		
Jake A Jasiak		Challenger K8	Mr. Greg Shaw
J0540	The Effect of Foo	od Type on the Energy It Contains	
Recognit	tion		
Junior	Earth & Enviro	onmental Sciences	
David P Marq		Challenger K8	Mr. Greg Shaw
J0631	Reducing the Ris	sk of Soil Liquefaction through Soil Improve	ment
Second I	Place		
Junior	Engineering		
Connor R Pul	len	Challenger K8	Ms. Colleen Doulk
J0750	How Does A Wir	ig's Shape Affect Lift?	
Honorab	le Mention		
Pearce B Whit		Methodist School Center	Mrs. Celeste Combs
J0751	Drive Safely		
Recognit	tion		
Junior	Plant Science	s	
Maia I Truog		Challenger K8	Mr. Greg Shaw
J1334	Sprouting it Out!	The Effect of Radiation on the Growth of M	lung Beans
Honorab	le Mention		
Senior	Earth & Envir	onmental Sciences	
Emily M Carr		F.W. Springstead High School	Mr. Chris Ausicchio
S0637	The Effect of Red Beach, Florida	ef Foundation on Ichthyofaunal Biodiversity	off the Coast of Hernando
Honorab	le Mention		
Senior	Engineering		
Raleigh G Forl		F.W. Springstead High School	Mr. Chris Auricchio
S0743		on New Artificial Reef Design to Maximize	
Recognit	tion		
rtcoogriii			

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9 awards for Hernando Region

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Hillsborough

	~3	
Junior	Behavioral & Social Sciences	
SriVarsha K		Mrs. Judy Grieco
J0211	OMG!!! It's a TEST!	
Third F	Place	
Riya Patel	Williams Middle Magnet School	Mrs. Judy Grieco
J0211	OMG!!! It's a TEST!	
Third F	Place	
Junior	Biomedical & Health Sciences	
Ashwatha S	3	Mrs. Judy Grieco
J0316	The Elixir of Youth	
Fourth	Place	
Junior	Earth & Environmental Sciences	
Elizabeth I N		Mrs. Carrie Prieto
J0618	Do Optical Brighteners in River Water Indicate	Sewage Pollution?
Recog	nition	
Junior	Environmental Engineering	
Samuel M G	Slow Williams Middle Magnet School	Mrs. Judy Grieco
J0815	Comparative Analysis of Aquatic Flora for Wate River Basin #5	er Quality Improvement in Hillsborough
Honor	able Mention	
Aarush Pras	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mrs. Judy Grieco
J0816	Can Algae Save the World?	
Fourth	Place	
Junior	Microbiology	
Aksheta S K	Canuganti Carrollwood Day School	Mrs. Carrie Prieto
J1111	Fight Against Bacteria Using Chitosan Nanopar	ticles
Third F	Place	
Senior	Behavioral & Social Sciences	
Carly S Rod	riguez Chamberlain High School	Mr. Michael Zanatian
S0216	Which of Aristotle's Rhetorical Appeals Is Judge	•
	Effective in Persuading Teenagers to Use Cond	oms?
Fourth	Place	
Senior	Biomedical & Health Sciences	
Sayyada Ka		
S0314	Discovery of Cancer Stem Cell Death and Inhib Vitamin E Delta-tocotrienol	oition of Colon Cancer Metastasis by
Third F	Place	

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Mark A Laurie		Ioo E Nowsomo High School	Mr. Chad Bhode
	T 1 D 1	Joe E. Newsome High School	
S0315		t and Testing of a Possible New Promising	Device that Can Detect
	Early Stages of R	lenal Cancer	
Fourth Pla	ace		
Senior	Earth & Enviro	nmental Sciences	
Margaret K Par	rish	Chamberlain High School	Mr. Michael Zanatian
S0621	Optimization and	Field Testing of a Low-Cost Portable Ente	rococci Test (PET) Kit
Second F	Place		
Senior	Engineering		
Andrew T Butt		George S. Middleton High School	Dr. Metodija Stojanovski
S0726	The Effect of 3D I	Printing Infill on the Material Efficiency of a	3D Printed Bridge
Fourth Pla	ace		
Senior	Environmental	l Engineering	
Omar Gonzalez	Z	Strawberry Crest High School	Mrs. Dianne Schroeder
S0816	Energy Through S	Solar Thermal Updraft	
Recogniti	on		
Senior	Plant Sciences	s	
Abraham Mathe	ew	Strawberry Crest High School	Mrs. Dianne Schroeder
S1314	Factors that Affect	t the Photosynthetic Rate of an Aquatic Pl	ant
		•	

Recognition

14 awards for Hillsborough Region

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Indian River

Junior	Animal Science	ces	
Olivia J Lazorik		Saint Edwards School	Mr. Les Rogers
J0106	Climate Change Lysmata wurdem	Problem: Effect of Ocean Acidification on the name	he Growth and Coloration of
Second P	lace		
Lucera E Long		Storm Grove Middle School	Mrs. Ashley Rollin
J0107	Goldilocks and th	ne Three Termites	
Honorable	e Mention		
Junior	Behavioral &	Social Sciences	
Sarah A Bickel		Storm Grove Middle School	Miss Carlean Browning
J0206	A Stroop Effect T	wist: Measuring Teacher Distraction Using	a Mislabeled List
Second P	lace		
Junior	Biomedical &	Health Sciences	
Elise Mallon		Saint Edwards School	Mr. Les Rogers
J0305	Correlation Amor	ng Cases of <i>Naegleria fowleria</i> in the Unite	d States
Recognition	on		
Junior	Earth & Enviro	onmental Sciences	
Gustav C Brugg	ger	Sebastian River Middle School	Ms. Patricia Schultz
J0609	The Effects of the	e Sebastian River on Phytoplankton Growtl	n in the Indian River Lagoon
Third Place	ce c		
Junior	Engineering		
James R Elford		Sebastian Charter Junior High School	Mrs. Cathleen Tinder
J0718	Supercharged Su		
Second P	lace		
Junior	Mathematics of	& Computational Sciences	
Jacob H Chesle		Saint Edwards School	Mr. Karl Leonhardt
J1006	Python Primes		
Third Place	ce		
Junior	Microbiology		
Juan Camilo Ol		Storm Grove Middle School	Mrs. Joan Martinelli
J1105	Effect of UV Rad	iation on the Survival of Bacteria	
Honorable	e Mention		
Griffin M Wagne		Storm Grove Middle School	Mrs. Joan Martinelli
J1106	Impact of Chloro	phyll Concentration Levels on the Proliferat	ion of <i>Vibrio fischeri</i>
Third Place	e e		

Junior Physics & Astronomy

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Clara G Martin		Saint Edwards School	Mr. Les Rogers
J1215	The Effect of Osc Column	cillation Amplitude on the Voltage Produc	ced by an Oscillating Water
Second P	lace		
Christopher S F		Saint Edwards School	Mr. Karl Leonhardt
J1216	Pitch Perfect Thr	ust	
Recognition	on		
Senior	Animal Science	ces	
Sana Shareef		Saint Edwards School	Dr. Kerryane Monahan
S0104		aphic Activity Bioassay of the Antennae cimpustulatus undatus Marshall) to Heac	
Third Place	e		
Senior	Behavioral &	Social Sciences	
Lauder B Fairch	nok	Saint Edwards School	Dr. Kerryane Monahan
S0208	Effects of Male a Hippocampus ere	nd Female Stock Density on Nighttime Cectus	Courtship Behaviors on
Fourth Pla	ace		
Senior	Earth & Enviro	onmental Sciences	
Nikki S Bouldin		Vero Beach High School	Mrs. Heather L. Holden
S0611	Analyzing Algae	Growth Using Geometric Methods	
Honorable	Mention		
Senior	Environmenta	l Engineering	
Omar Shareef		Saint Edwards School	Dr. Kerryane Monahan
S0806	The Recording a Frequencies	nd Replication of Psylid, <i>Diaphorina citri</i>	kuwayama, Communication
Second P	lace		
Senior	Physics & Ast	ronomy	
Senior David Gambee	Physics & Ast	ronomy Saint Edwards School	Dr. Kerryane Monahan
	Physics & Ast Magnetically Sep	Saint Edwards School	Dr. Kerryane Monahan
David Gambee S1206	Magnetically Sep	Saint Edwards School	Dr. Kerryane Monahan
David Gambee	Magnetically Sep	Saint Edwards School	Dr. Kerryane Monahan Mrs. Karyn Daniel
David Gambee S1206 Third Place	Magnetically Sep	Saint Edwards School arating Fluids	
David Gambee S1206 Third Plac Martha A Grude	Magnetically Sep ce ens Vortex Generator	Saint Edwards School parating Fluids Sebastian River High School rs and Their Effect on Airfoils	
David Gambee S1206 Third Place Martha A Grude S1207	Magnetically September celens Vortex Generator lace	Saint Edwards School parating Fluids Sebastian River High School rs and Their Effect on Airfoils Vero Beach High School	Mrs. Karyn Daniel Mrs. Heather L. Holden
David Gambee S1206 Third Plac Martha A Grude S1207 Second P	Magnetically September celens Vortex Generator lace	Saint Edwards School parating Fluids Sebastian River High School rs and Their Effect on Airfoils	Mrs. Karyn Daniel Mrs. Heather L. Holden
David Gambee S1206 Third Plac Martha A Grude S1207 Second P Brian A Mills	Magnetically September of Magnetical	Saint Edwards School parating Fluids Sebastian River High School rs and Their Effect on Airfoils Vero Beach High School	Mrs. Karyn Daniel Mrs. Heather L. Holden
David Gambee S1206 Third Plac Martha A Grude S1207 Second P Brian A Mills S1208	Magnetically September of Magnetical	Saint Edwards School parating Fluids Sebastian River High School rs and Their Effect on Airfoils Vero Beach High School	Mrs. Karyn Daniel Mrs. Heather L. Holden

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Senior	Plant Sciences	S	
Alexi K Dong		Indian River Charter High School	Mrs. Sarah Rhodes-Ondi
S1305		udy on the Growth of <i>Lactuca sativa</i> ing While Utilizing Nontraditional Ph	

Third Place

20 awards for Indian River Region

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Lake

Junio	or	Physics & Astronomy			
Luke	Burris		Tavares Middle School	Ms. Joanie Westmoreland	
J122	1	The Cause of Wa	ve Particle Duality Inconsistency		

Second Place

1 awards for Lake Region

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Lockheed Martin Manatee

Junior	Physics & A	Astronomy	
Britton D Ri	cks	R. Dan Nolan Middle School	Ms. Kristen Coats
J1210	Take Aim		
Recog	nition		
Senior	Environme	ntal Engineering	
Jason L Ede	elkind	Manatee High School	Mrs. Christine Laurie
S0803 The Removal of A		of Aqueous Heavy Metals by Hypera	ccumulating Plants

Fourth Place

Senior *Mathematics & Computational Sciences*

Anna M Zimmerman		Braden River High School	Ms. Marybeth Witham
S1004	A Method of Enc Correction	oding and Decoding Information	in DNA Sequences that Includes Error

Recognition

Senior Physics & Astronomy

Colton C Lewis		Bradenton Christian School	Mr. Ben Holt
S1202	Cooling the Char	ge	

Recognition

4 awards for Lockheed Martin Manatee Region

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Martin

lumian	Animal Caiana		
Junior	Animal Science		
Kyle T Ramos		St. Joseph Catholic School, Stuart	Mrs. Norma Kuehn
J0124	Squid Pops, Anyo	one?	
Honorab	ole Mention		
Junior	Engineering		
Viraj Singh		Dr. David L. Anderson Middle School	Mrs. Carla Viands
J0745	WiFi - Low or Hig	h?	
Fourth F	Place		
Junior	Environmenta	l Engineering	
Rohan S Jakh	iete	Murray Middle School	Mrs. Michelle Jerrells
J0826	Electro-Precipitat	ion: An Alternative Water Softening Proce	ess?
Second	Place		
Alfredo Gonza	alez-Tax	Indiantown Middle School	Ms. Anna Jolie
J0827	Two Solutions In	the Bag	
Recogni	tion		
Senior	Animal Science	es	
Shantanu Jak	hete	South Fork High School	Ms. Lauren Case
S0121	Novel Mosquito C Reduction	Control: A Chemical-free, Low-Cost Appro	each for Aedes aegypti
Second	Place		
Tarun Neelava	annan	South Fork High School	Mrs. Linda J. Stitely
S0122	Inhibition/Extermi	nation of the Nylanderia fulva and Solenc	opsis invicta Species of Ants
Honorab	ole Mention		
Senior	Intelligent Mad	chines, Robotics, & Systems Software	
Varun A Laks	hmanan	South Fork High School	Mrs. Linda J. Stitely
S0913	Keep Your Eyes of through an iOS A	on the Road: Preventing Smartphone Relapplication	ated Walking Accidents
Honorat	ole Mention		
Caroline G No	olan	Jensen Beach High School	Mr. Michael Thurman
S0914	15 is too 0110110	000110000 (Late) A Gender Specific STE	M Prototype
Third Di			

Third Place

8 awards for Martin Region

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Monroe

Junior	Chemistry		
Jesse J Ferra	nte	Treasure Village Montessori School	Mrs. Bobbi Burson
J0511	Would I Swim in	that Water?	
Third Pla	ace		
Junior	Engineering		
Grace B Matthews		Treasure Village Montessori School	Mrs. Bobbi Burson
J0725	Demonstrating the Concept of Self Assembly Using Hydro-fold Technology		

Third Place

2 awards for Monroe Region

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Northeast Florida

Junior	Biomedical &	Health Sciences	
Izabelle J Youn	g	San Jose Catholic School	Mrs. Carla Chin
J0314	Heavy Metal Hoo	kah?	
First Plac	e		
Junior	Intelligent Mad	chines, Robotics, & Systems Software	
John Blake Cav		Julia Landon College Preparotory Middle	Mr. Chris Johnson
J0910	Exploring Machin Game Play	School Be Learning: The Effect of a Genetic Algorit	thm on Lacrosse Simulation
Third Place	ce		
Junior	Physics & Ast	ronomy	
Neha Sonthi	,	James Weldon Johnson College Preparatory	Mrs. Jeanne Murphy
J1227	The Effect of Mas	"Middle School ss of a Meteorite on the Ejecta of the Crate	er
Second F		,	
MaryAlice D Yo		San Jose Catholic School	Mr. Patrick Madigan
J1228	•	tromagnetic Field Strong Enough to Simula	•
Division (Grand Award Winner	And First Place	
John P Cratem		San Jose Catholic School	Mrs. Carla Chin
J1229	The Energy Effici	ent Light Bulb	
Recogniti	on		
Jack W Brophy		San Jose Catholic School	Mr. Patrick Madigan
J1230	Strengthening an	d Extending Radio Wave Range with Liqu	ids
Third Place	ce		
Grant F Reidy		San Jose Catholic School	Mr. Patrick Madigan
J1231	Do Cell Phones E	Emit Raditation	
Fourth Pla	ace		
Junior	Plant Science	S	
Sreelalitapriya	Duvuuri	Darnell Cookman Middle/High School of	Mrs. Barbara Matteson
J1318	How Does Temp	Medical Arts erature Affect the Rate of Cell Respiration	of Pea Seeds?
Third Place	ce		
Senior	Animal Science	ees	
Hannah N Lee		The Bolles School	Dr. Kathryn Halloran
S0110	Spotted wing Dro	sophila, Baiting and Trapping	-
Second F	Place		

Senior Biomedical & Health Sciences

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Lindsay S Poul		Episcopal School of Jacksonville	Ms. Marion Zeiner
S0312	The Effects of E-	cigarette Vapor on <i>Drosophila melanogaste</i>	er
Fourth Pla			
Rylee E Schroo		Bishop Kenny High School	Mrs. Vicki Schmitt
S0313	Pressure Distribu	tion in Ballet Pointe Shoes	
Honorable	e Mention		
Senior	Cellular/Moled	ular Biology & Biochemistry	
Zachary R Ada	m	Episcopal School of Jacksonville	Ms. Marion Zeiner
S0419	Urinary Metabolo Detection of Kidn	mics: Using Mass Spectrometry to Identify ey Cancer	Biomarkers for an Early
Recogniti	on		
Courtney A Cra	wford	Episcopal School of Jacksonville	Ms. Marion Zeiner
S0419	Urinary Metabolo Detection of Kidn	mics: Using Mass Spectrometry to Identify ey Cancer	Biomarkers for an Early
Recogniti	on		
Erisa Gjoka		Bishop Kenny High School	Mrs. Vicki Schmitt
S0420	Creating Bioplast	ics	
Honorable	e Mention		
Nicolina C Gra		Bishop Kenny High School	Mrs. Vicki Schmitt
S0420	Creating Bioplast	ics	
Honorable	e Mention		
Senior	Earth & Enviro	onmental Sciences	
Bettina B Huar	ng	Stanton College Preparatory School	Ms. Tamla Simmons
S0619	The Effect of Tim	e of Day and Depth on St. Johns River Qu	ality Data Collection
Fourth Pla	ace		
Senior	Engineering		
Howard A Royo	ce	Episcopal School of Jacksonville	Ms. Marion Zeiner
S0723	The Effect of Cor	npression and Tension in a Bolted System	
Recogniti	on		
Chang Yang		Episcopal School of Jacksonville	Ms. Marion Zeiner
S0724	Attaching Microle Efficiency	ns Array to Biohybrid Solar Cell to Improve	e Its Energy Conversion
Third Place	ce		
Tara M Martin		Episcopal School of Jacksonville	Ms. Marion Zeiner
S0725		nergy Harvesting from Respiration Utilizing Inversion to Power Wearable Microelectron	
Fourth Pla	ace		

Senior *Mathematics & Computational Sciences*

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Colbi Appleby	5.5.0	Paxon School for Advanced Studies	Ms. Emma Gallagher
S1012		ational Relationships between an Addi f Variables within Trapdoor One-way Fu	
Recognit	ion		
Victoria L Ge		Stanton College Preparatory School	Dr. Rajasekhar Narisetty
S1013	Modeling Gene	Fransfer and Its Impact on Antibiotic Re	esistance
Honorabl	e Mention		
Madison Lee		Stanton College Preparatory School	Dr. Rajasekhar Narisetty
S1013	Modeling Gene	Fransfer and Its Impact on Antibiotic Re	esistance
Honorabl	e Mention		
Isaiah M Nields	3	Episcopal School of Jacksonville	Ms. Marion Zeiner
S1014	Computer Vision	Algorithm for Quantifying Motion	
Third Pla	ce		
Senior	Microbiology		
Devanik Biswa	S	Stanton College Preparatory School	Ms. Tamla Simmons
S1112		ve for Antibiotics: Analysis of the Effectiones of Inhibition of Escherichia coli an	
Honorabl	e Mention		
Shreyas K Che	etan	The Bolles School	Dr. Kathryn Halloran
S1113	Tumeric - A Goo	d Treatment for Skin Wounds	
Honorabl	e Mention		
Senior	Physics & Ast	ronomy	
William G Can	ty	Bishop John J. Snyder High School	Mrs. Christine Morrow
S1214	The Effects of Di	stance and Halogen Bulb Power on Ra	diation Transfer
Honorabl	e Mention		
Victoria L Su		Stanton College Preparatory School	Ms. Tamla Simmons
S1216	The Radioactivity	y of Protonlirradiated Materials II	
Third Pla	ce		
Senior	Plant Science	s	
Zachary C Zell	er	Episcopal School of Jacksonville	Ms. Marion Zeiner
S1311		boscular mycorrhizal Fungi on the Salt Julgaris and Rosmarinus officinalis	Tolerance of Hydroponically
Third Pla	ce		
Evan B Loadh	oltz	Bishop Kenny High School	Mrs. Vicki Schmitt
S1312	The Effect of Irra of Sea Island Co	diation and Full Spectrum GrowLlights tton	on the Growth and Development
Second F	Place		

Second Place

29 awards for Northeast Florida Region

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Osceola

Junior	Animal Science	es	
Sydney K. Ko	chensparger	Neptune Middle School	Mr. Allyn Short
J0101	How Does the O	ster Affect the Shell?	
Honoral	ole Mention		
Junior	Engineering		
William M. Cr	udo	Celebration K-8 School	Mr. Brian Glasby
J0702	The Race to Buil	d a Better R.O.C.K.E.T. (Really Overcor	mplicated Kinetic Energy Tube)
Fourth F	Place		
Junior	Mathematics of	& Computational Sciences	
Arseny Kuzm	in	Celebration K-8 School	Mr. Allyn Short
J1002	Apeirohedra: The	World Beyond the Plane	
Fourth F	Place		
Sophia Zavac	la	Celebration K-8 School	Mr. Allyn Short
J1002	Apeirohedra: The	World Beyond the Plane	
Fourth F	Place		
Junior	Physics & Ast	ronomy	
Darren W. Mo	Cleery	Neptune Middle School	Mrs. Karen Perry
J1202	Power Up		
Recogn	ition		
Samuel R. Le		Celebration K-8 School	Mrs. Odalys Perez
J1203	Go for Launch!		

Fourth Place

6 awards for Osceola Region

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Palm Beach

Junior	Behavioral & S	Social Sciences	
Helen F. Pelus	0	Alexander D. Henderson University School	Miss Suzette Milu
J0201		n One's Own Short Term Memory Be Faul a Factually Based, Test Type Scenario?	ted By the Introduction of
First Plac	е		
Junior	Chemistry		
Elise J. Weber		Bak Middle School of the Arts	Ms. Tracy Smith
J0501	The Effect of Low -friendly Textiles	V Toxicity Metal Salt Mordants on Natural D	ye Colors: A Solution for Eco
Third Place	ce		
Junior	Earth & Enviro	onmental Sciences	
Rachel Rosenb	perg	Watson B. Duncan Middle School	Ms. Nicole Freseman
J0601	Light Refraction i	n Salt Water	
Second F	Place		
Junior	Engineering		
Devin R. Willis		Alexander D. Henderson University School	Mrs. Robin Barkes
J0704	Can You Build a Microscopic Pred	Modular Low Cost Robotics Platform for Coision?	ellular Experiments with
First Plac	e		
Junior	Intelligent Mad	chines, Robotics, & Systems Software	
Priscilla L. Lam	bert	St. Ann Catholic School	Mrs. Jamie Cleary
J0901	A Helping, Heartf	elt Hand	
Third Place	ce		
Junior	Mathematics &	& Computational Sciences	
Tesla X. Radul	ovic	Loggers' Run Middle School	Mr. James Byrd
J1003	Sin(x), Cos(x)and	Speech Recognition	
Second F	Place		
Junior	Physics & Ast	ronomy	
Ryan A. Alea		Omni Middle School	Mrs. Elaine Gibbard
J1201	Tidal Barrage - R	ide the Waves!	
Recogniti	on		
Jacques Coury		Bak Middle School of the Arts	Ms. Tracy Smith
J1206	Aircraft Efficiency	Modification: Applications of Physics to A	erodynamics
Third Place	00		

Third Place

Junior Plant Sciences

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Christina Cros	•	The Weiss School	Mr. Kevin Simmons
Christina Cros		Space Efficiently	Mr. Kevin Simmons
		- Срасс Еписину	
Fourth F		Mastern Dines Middle	Mr. Wooley Terrall
William Barter	~	Western Pines Middle var Can Survive Flooding?	Mr. Wesley Terrell
J1302	William Rice Culti	val Call Survive Flooding!	
Third Pla	ace		
Senior	Animal Science	ces	
Jessica E. Yo	ung	Palm Beach Central High School	Mr. William Bartenslager
S0101		otassium Chloride and Experimental Temp d Exhibition of Predator Avoidance Behav	
Third Pla	ace		
Amy Polen		Palm Beach Central High School	Mr. William Bartenslager
S0102		ter Temperature on the Mussel's Byssal T Composition, and Attachment Strength w	
Fourth F	Place		
Senior	Behavioral &	Social Sciences	
Srijith Nair		American Heritage School of Boca/Delray	Dr. Brian Ramos
S0201	Antioxidant Prop	erties in Indian Gooseberries to Improve C	Cognitive Functions in Rats
Third Pla	ace		
Lila Mish		American Heritage School of Boca/Delray	Dr. Brian Ramos
S0202		v Drug? An Analysis on Meditation's Effec n, and Prefrontal Cognitive Function	ets on the Addicted Brain,
Third Pla	ace		
Senior	Biomedical &	Health Sciences	
Lindsay K. Pla	acius	Palm Beach Central High School	Mr. William Bartenslager
S0301		Effect of Extracellular Matrix on the Differe on the Differe oengineering Organs.	entiation and Functionality of
Division	Grand Award Winner	And First Place	
Gabrielle R. M		Seminole Ridge High School	Mrs. Lyn Slygh
S0302	Post Translation	al Modifications of Kinesin in Aplysia califo	ornica
Fourth F	Place		
Senior	Cellular/Molec	cular Biology & Biochemistry	
Aashay Patel		American Heritage School of Boca/Delray	Dr. Brian Ramos
S0402	The Effects of N	T3 and HuR on Neurodevelopment	
Honoral	ole Mention		
Senior	Chemistry		
Jacqueline S.	<u> </u>	Suncoast Community High School	Mr. Jeffrey Laufer
S0501	Improving Cupro	us lodide Method for Mercury Detection	
Honoral	ole Mention		

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Nathan L. Blo	od	Palm Beach Gardens High School	Mrs. Kathy Roberts
S0502	Nathan's Equilib	rium Equation: An Efficient Alternative to	ICE Tables
Fourth F	Place		
Senior	Earth & Envir	onmental Sciences	
Celinie M. Ng	uyen	Palm Beach Central High School	Mr. William Bartenslager
S0601	Soil Remediation	n through the Use of Nutrient-based Nan	ocomposite Hydrogels
Third Pl	ace		
Maria Elena (Oxbridge Academy of the Palm Beaches	Dr. Teresa Thornton
S0602		naceuticals Contaminate Groundwater! S d Polymer MN250 with Dissolved Humic	•
Second	Place		
Jonathan C. (~	Florida Atlantic University High School	Mrs. Robin Barkes
S0603		oxicity Testing Techniques to Evaluate t rfaces on Urban Water Quality	the Ecotoxic Contributions of
Fourth F	Place		
Senior	Engineering		
Jason S. Kau	fmann	Suncoast Community High School	Mr. Jeffrey Laufer
S0702	Dynamics of 3D	Printing: Reactor3D	
Third Pl	ace		
Hannah D. He		Florida Atlantic University High School	Mrs. Robin Barkes
S0703		ty Access to Countries through Ocean E hrough the Development of a Novel Oce	
Second	Place		
Senior	Environmenta	al Engineering	
Stefan Wan		Alexander W. Dreyfoos School of the Arts	Mr. Michael Rathe
S0801	Functionalizing E Aqueous Solutio	Biochar with Layered Double Hydroxides ns	for Phosphate Removal from
Division	Grand Award Winne	r And First Place	
Vithulan Sai S		Florida Atlantic University High School	Mrs. Robin Barkes
S0802	How Can PVC B	e Sufficiently Utilized in Order to Retriev	e Oil from the Gulf of Mexico?
Fourth F	Place		
Senior	Intelligent Ma	chines, Robotics, & Systems Softwar	re
Alexis M. Bas		Florida Atlantic University High School	Mrs. Robin Barkes
S0902	Formulating Differ Florida and the E	erent Detection Algorithms to Identify Inv Bahamas	asive Red Lionfish in South
Second	Place		
Senior	Microbiology		

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Jada M. Campbell		American Heritage School of Boca/Delray	Dr. Brian Ramos
S1101 The Evaluation of Moringa Leaf Extract for Its Antibacterial Properties Against Enterococcus faecalis			
Fourth	n Place		
Nikita P. Bozicevic		Palm Beach Central High School	Mr. William Bartenslager
S1102 Biofilm Reduction in Escherichia coli and Citrobacter freundii			
Fourth	n Place		
Julia A. Barquin		American Heritage School of Boca/Delray	Dr. Brian Ramos
S1103 The Inhibitory Effects of Resveratrol on Biofilm Formation and Planktonic Gro Streptococcus Mutans			and Planktonic Growth of

Fourth Place

30 awards for Palm Beach Region

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Pasco

Riya T Choksi J0122 Fourth Pla	Fruit Fly Frenzy	Seven Springs Middle School	Mr. Del Giacco
	Fruit Ely Franzy:		
Fourth Pla	i full fly i felizy.	Effect of Trimethylxanthine on <i>Drosophila</i>	melanogaster
	асе		
Junior	Behavioral &	Social Sciences	
Katie E McCorr	nick	Academy at the Lakes	Mrs. Colleen McCormick
J0217	The Effects of Me	editation on Behavior and Cognition	
Honorable	Mention		
Junior	Chemistry		
Drew C Burgess	3	Charles S. Rushe Middle School	Mrs. Joy Naar
J0532	The Effect of Dye	on Hair Strength	
Recognition	on		
Junior	Earth & Enviro	onmental Sciences	
Madeline Murch	ı	Bishop Larkin Catholic School	Ogechi Offurum
J0625	Comparison of Ti Gauges	de Models for a Gulf of Mexico Inlet using	Data from Nearby Tide
Honorable	Mention		
Junior	Engineering		
Alyssa N Perez		Centennial Middle School	Mrs. Jessica Maxwell
J0741	Regaining Power	-	
Fourth Pla	ice		
Achyudhan R K	utuva	Dr. John Long Middle School	Mrs. Elizabeth Pryor
J0742	The Use of Esch	<i>erichia coli</i> to Increase Hydroelectric Produ	ıction
Second P	lace		
Charles E Reed	•	Crews Lake Middle School	Ms. Laura Hull
J0743	Clean Energy So	urces	
Third Plac	e		
Junior	Physics & Ast	ronomy	
Sarah A Menard	t	Charles S. Rushe Middle School	Mr. Steven Williams
J1242	How Seismic Wa	ves are Affected by Surface Terrain When	Impacted by a Meteor
Fourth Pla	ice		
Senior	Biomedical &	Health Sciences	
Regan L McCor	mick	Academy at the Lakes	Mrs. Colleen McCormick
S0323	A Multi-generatio Drosophila melar	nal Study on the Effects of Sucralose, Asp nogaster	artame & Saccharin on

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Senior	Cellular/Molecular Biology & Biochemistry
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Anmol Warn	nan	Academy at the Lakes	Mrs. Colleen McCormick
S0431	Probiotic Bacter	ia: A Novel Way to Provide Robust, E	fficient, and Safe Treatment
	of Ademocarcin	ioma	

Fourth Place

Senior *Mathematics & Computational Sciences*

Pranav I Warn	nan	Academy at the Lakes	Mrs. Colleen McCormick
S1024	Mathematical Mo	delling of Metastatic Prostate Cancer	

First Place

Senior Physics & Astronomy

Roshan Warm	an	Academy at the Lakes	Mrs. Colleen McCormick
S1223	Spintronics Circu	its: The Building Blocks of S	Spin-based Computation

Third Place

12 awards for Pasco Region

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1 IIIOIIGO			
Junior	Behavioral &	Social Sciences	
Ethan J Moore)	Saint Cecelia Interparochial School	Ms. Heather Manter
J0212	Targeting the Su	bconscious	
Honorab	le Mention		
Junior	Biomedical &	Health Sciences	
Emily A Wilso	n	Espiritu Santo Catholic School	Mrs. Barbara Bivens
J0320	JUICE-C?	_	
Fourth P	lace		
Junior	Cellular/Mole	cular Biology & Biochemistry	
Matthew S Bo	outot	Espiritu Santo Catholic School	Mrs. Barbara Bivens
J0415	Fuel for the Futu	re	
Fourth P	lace		
Junior	Chemistry		
Miranda Heap	os	Our Lady of Lourdes Catholic School	Mrs. Teresa Lynn
J0525	Battle of the Batt	teries	
Honorab	le Mention		
Anna J Jones		Shorecrest Preparatory School	Mr. Curtis Cruise
J0526	Are Countertops	Safe?	
Honorab	le Mention		
Junior	Environmenta	al Engineering	
Sophia Hicks		Canterbury School of Florida	Ms. Laura Fauver
J0819	The Effect of the Oil Spill	Volume of Ferrofluid on the Volume of 0	Oil Cleaned Up From a Marine
Honorab	le Mention		
Junior	Physics & Asi	tronomy	
Alexander N C		Saint Cecelia Interparochial School	Ms. Heather Manter
J1236	Lithium Ion Batte	ery Cycle Optimization	
Third Pla	ice		
Junior	Plant Science	es	
Evelyn A Vaug	jhan	Saint Cecelia Interparochial School	Ms. Heather Manter
J1325	How Does Color	ed Light Affect the Process of Photosynt	thesis in Wisconsin Fast Plants?
Fourth P	lace		
Senior	Physics & Asi	tronomy	
Connor J Frie		CAT/ Lakewood High School	Mr. Paul H. Dickman
S1219		Size of a Rocket on Maximum Vertical I	Displacement
Honorab	le Mention		
	-		

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Nikhil Sharn	na	CAT/ Lakewood High School	Mr. Paul H. Dickman
S1219 The Effect of Fin		Size of a Rocket on Maximum Vertical Displacement	
Honor	able Mention		
Richard L C	openhaver	CAT/ Lakewood High School	Mr. Paul H. Dickman
S1220	Fetching Fletchin	9	

Recognition

11 awards for Pinellas Region

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Polk

Junior	Animal Science	ces	
Sophia T Cast	rillon	Saint Joseph Academy	Mrs. Deena Porter
J0121	The Efficacy of E	ntomopathogenic Nematodes for Control o	f Ambrosia Beetles
Third Pla	ice		
Junior	Biomedical &	Health Sciences	
Matthew B We	erd	Resurrection Catholic School	Mrs. Lisa Schaal
J0326	Heads Up!		
Fourth P	lace		
Junior	Chemistry		
Zoe A Parker		Lakeland Highlands Middle School	Mrs. Leslie Donker
J0530	Water and Electri	icity DO MIX	
Second F	Place		
Junior	Earth & Enviro	onmental Sciences	
Elizabeth K Lo	vely	Resurrection Catholic School	Mrs. Lisa Schaal
J0624	A Foundation of F	Radiation	
Fourth P	lace		
Junior	Mathematics 8	& Computational Sciences	
Gabrielle M So	chaal	Resurrection Catholic School	Mrs. Lisa Schaal
J1014	The Popped Para	adox	
Recognit	tion		
Senior	Animal Science	ces	
Jacob Fuller		Lakeland Christian School	Mrs. Jennifer Canady
S0119	Cu Later: Investig	gating Aversion Behavior in Channel Apple	Snail
Recognit	ion		
Senior	Chemistry		
Jasper L Monte	gomery		Mrs. Debbie Kennon
S0516	Optimization of H	⁻ High Iollow Gold Nanoparticles for Photothermal	Ablation Therapy of Cancer
Honorab	le Mention		
Senior	Mathematics 8	& Computational Sciences	
Grady G Danie		International Baccalaureate School at Bartow	Mrs. Debbie Kennon
S1022	Genetic Algorithn	High ns: Theory and Demonstration	
Fourth P	lace		
Senior	Microbiology		

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Matthew D Klapprott		International Baccalaureate School at Bartow High	Mrs. Debbie Kennon
S1124 ACNE OUT II		riigii	
Recog	nition		
Senior Plant Science		es	
Julia G Canady		Lakeland Christian School	Mrs. Jennifer Canady
S1325 Weed Warfare: In		Investigating Allelopathy Year 6	

Second Place

10 awards for Polk Region

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Sarasota

Senior	Behavioral & S	Social Sciences	
Kiana E Knuth		Sarasota High School	Mr. Andrew Harshman
S0213	Testing the Effects of the BET Inhibitor JQ1 on the Memory of Dardanus calidus		
Second P	lace		
Senior	Cellular/Molec	ular Biology & Biochemistry	
Aubrey G Kildu	ff	Sarasota High School	Mr. Andrew Harshman
S0412 Effects of Mild Traumatic Brain Injury on the Visual System of Mi		ual System of Mice	

Second Place

2 awards for Sarasota Region

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Seminole

Junior	Chemistry		
Matthew K Sha	anosky	Greenwood Lakes Middle School	Mr. Nick Mallay
J0536	Does Increasing	the Number of Cells in A Saltwater Battery	Increase its Power?
Third Pla	ice		
Junior	Earth & Enviro	onmental Sciences	
Katelyn R Spu	ırlock	Jackson Heights Middle School	Mrs. Melaine Francher
J0629	Emergency Natio	n Desalination	
Fourth P	lace		
Junior	Engineering		
Lena M Stadle	r	Jackson Heights Middle School	Ms. Kathleen Moreno
J0747	Is His Bite Worse	Than His Bark	
Honorab	le Mention		
Junior	Environmenta	l Engineering	
Milana Mudra		Millennium Middle School	Ms. Tina Lewis
J0829	Fruit Peel Paper-	Making	
Third Pla	ice		
Junior	Mathematics 8	& Computational Sciences	
Jenna M Bland	chard	Sanford Middle School	Mrs. Kim Coleman
J1016	Math, Music Con	nections: The Mathematical Beauty of Mus	sic
Fourth P	lace		
Junior	Physics & Ast	ronomy	
Ashton K Field	s	Indian Trails Middle School	Mrs. Alexis Holt
J1246	Temperature Imp	act on the Air Pressure of Footballs	
Honorab	le Mention		
Senior	Behavioral & S	Social Sciences	
Nikhil S Patel		Oviedo High School	Ms. Kathy Savage
S0225	CranioMetrix: Inn	ovations to Fight Alzheimer's, Year 4	
Division	Grand Award Winner	And First Place	
Heather M Ajila		Crooms Academy of InformationTechnology	Mrs. Vanessa Moosavifazel
S0226	The Effect of Cla	ss Engagement on Student Test Scores	
	le Mention		
Zkyirea Z Lawi		Crooms Academy of InformationTechnology	Mrs. Vanessa Moosavifazel
S0226	The Effect of Cla	ss Engagement on Student Test Scores	
Honorab	le Mention		

Honorable Mention

Senior Biomedical & Health Sciences

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Chethani B Chi	*	Seminole High School	Ms. Ramsey Robinson
S0326		a Proteinase I to Inhibit the c-Ha-ra Order to Reduce the Risk of Gastric	
Third Pla	ce		
Sapna K Patel		Oviedo High School	Ms. Kathy Savage
S0327	Meemo: An Autis	sm Destroying Avatar, Year 2	
Fourth PI	ace		
Senior	Cellular/Moled	cular Biology & Biochemistry	
Tess A Marvin		Paul J. Hagerty High School	Mrs. Sarah Evans
S0435	Ribosomal Ribor Antimicrobial	nucleic Acid Targeting Using Small	Ribonucleic Acid as a Potential
Division (Grand Award Winner	And First Place	
Rafi Hessami		Lake Mary Preparatory School	Dr. Tina B. Gibson
S0436		ercent Transmission of Reflectin as ties in <i>Euprymna scolopes</i>	a Function of Temperature, Salinity,
Honorabl	e Mention		
Senior	Earth & Enviro	onmental Sciences	
Nidhi Ohri		Seminole High School	Ms. Ramsey Robinson
S0634		ficiency of Hydrogen Fuel Cell Prod Use of Catalyst Mixtures: a Third Y	uction by Splitting Water (into H2
Third Pla	ce		
Senior	Engineering		
Lauren M Neld	ner	Paul J. Hagerty High School	Mrs. Sarah Evans
S0737	Modeling and Sir Forces	mulation of Mass Spring Dampers in	n Bridges Under Seismic and Wind
Fourth PI	ace		
Zephrem A Tep	oper	Paul J. Hagerty High School	Mrs. Sarah Evans
S0737	Modeling and Sir Forces	mulation of Mass Spring Dampers in	n Bridges Under Seismic and Wind
Fourth PI	ace		
Senior	Intelligent Mad	chines, Robotics, & Systems So	ftware
Aidan F Ryan		Paul J. Hagerty High School	Mrs. Sarah Evans
S0916	Point-Cloud Gen	eration Using Computer Vision for I	Motion Estimation
Second F	Place		
Miranda R Beri	nheim	Crooms Academy of InformationTech	nology Mrs. Vanessa Moosavifazel
S0917	Driving while InT	ECHicated	
Third Pla			
Hayden A Free		Crooms Academy of InformationTech	nology Mrs. Vanessa Moosavifazel
S0917	Driving while InT	ECHicated ————————————————————————————————————	
Third Dia			

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Third Place

Klayton L Killough		Crooms Academy of InformationTechnology	Mrs. Vanessa Moosavifazel
S0917	Driving wh	ile InTECHicated	
Third F	Place		
Senior	Mathem	atics & Computational Sciences	
Mitchell A Hammack		Oviedo High School	Ms. Kathy Savage
S1027 Skin Cancer Detection Using Convolutional Neural Ne		ks	

Third Place

21 awards for Seminole Region

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South Florida

Senior

Junior	Biomedical &	Health Sciences	
Luis E Garcia-S	Sarabia	George Washington Carver Middle School	Dr. Guillermo Garcia
J0310	RA Is Getting on	My Nerves!	
Third Place	ce		
Ethan Z Levy		Aventura Waterways K-8 Center	Ms. Melissa Macko
J0311	Comparing Pulsa	itile and Non-Pulsatile Left Ventricular Ass	ist Devices (LVADs)
Recogniti	on		
Junior	Environmenta	l Engineering	
Isabela V Pero	lomo	Norman S. Edelcup Sunny Isles Beach K-8	Mr. Daniel Goodfriend
J0810	Cleaner Bottoms	Community School Using Ultrasonic Waves to Reduce Barna	acle Growth
Second F	Place		
Junior	Microbiology		
Natalia Lopez		George Washington Carver Middle School	Mrs. Bertha Vasquez
J1108	Transformers: Th	e Age of Calcium	
Fourth Pl	ace		
Junior	Physics & Ast	ronomy	
Lucas J Carbaj	all	Winston Park K-8 Center	Mr. David Negrelli
J1223	Using Plant Prod	ucts with TiO2 Nanoparticles in Dye Sensi	tive Solar Cells
Fourth Pl	ace		
Amy A Kaplan		George Washington Carver Middle School	Ms. Melissa Martinez
J1224	Exoplanets		
Third Place	се		
Marlon Palomir		Archimedean Middle School Conservatory	Ms. Sarah Grattan
J1225	Seeing Space		
Fourth Pl	ace		
Junior	Plant Science	s	
Daisy J Hoover	•	George Washington Carver Middle School	Mrs. Bertha Vasquez
J1315	Growing Green	-	
Fourth Pl	ace		
Senior	Animal Science	ces	
Madison K Pre	cht	Westminster Christian School	Mrs. Lisa Garrido
S0109	The Effect of Afri Experimental Ana	can Dust on the Threatened Staghorn Cor alysis	al, <i>Acropora cervicornis</i> : An
Recogniti	on		

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Cellular/Molecular Biology & Biochemistry

Smita Bhattach	•	John A. Ferguson Senior High School	Mr. Michael Weiss
S0414		alysis and Effects of Oscillatory and Steady Mesenchymal Stem Cells (BMMSC)	y Shear Stress on Bone
Second I	Place		
Said A Bilani		North Miami Beach Senior High School	Ms. Vania Boeva
S0415		onditioned Medium from Dental Stem Cells Treated Chondrocytes	on Gene Expressions of
Third Pla	ice		
Maria V Suare		Medical Academy for Science and Technology	Ms. Sarah Cabrera
S0416	Testing for Poten Cells Treated wit	tial Reactive Oxygen Species (ROS) Inhib h Alcohol	itors in Human Dendritic
Fourth P	lace		
Senior	Chemistry		
Alea C Delmas	stro	Riviera Preparatory School	Mrs. Elyssa Falkner
S0509	The Effect of Car	bon Nanodots on the Fibrillation of Humar	n Insulin
Third Pla	ace		
Senior	Engineering		
Megan R Erdo	zain	Medical Academy for Science and Technology	Ms. Sarah Cabrera
S0716	the Use of a Unio	or a Prosthetic Hand Geared for High Perf que Sensing System Platform, Brushless N ar Mechanism, and Rapid Prototyping Tech	Notor Drive System Coupled
First Plac	ce		
Simon P Tsao	ussis	Christopher Columbus High School	Mrs. Alina Sanchez
S0717	Two Transistor T	ernary Random Access Memory	
Honorab	le Mention		
Bo You		Miami Palmetto Senior High School	Ms. Pamela Shlachtman
S0718	Development of a Dynamic Light So	a Simulation-Driven Algorithm to Calculate cattering Data	Gold Nanorod Length from
Third Pla	ice		
Senior	Environmenta	l Engineering	
Atiquel Islam		North Miami Beach Senior High School	Ms. Vania Boeva
S0811	Dye-Sensitized S	olar Cell	
Third Pla	ice		
Rebecca A Ra	uch-Thane	Miami Beach Senior High School	Mr. Paul Rehage
S0812	An Innovative Us mangle and Avic	e of <i>Moringa oleifera</i> in Bio-Remediation o ennia germinans	of Coastal Biomes of Rizofora
Fourth P	lace		

Senior Physics & Astronomy

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Aaron F matthews		Westminster Christian School	Mrs. Lisa Garrido
S1213 Do Different Material?		•	Prevent Concussions than the Factory

Honorable Mention

19 awards for South Florida Region

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St. Johns

011 0011110			
Junior	Physics & Ast	ronomy	
Joseph M Par	imucha	Pacetti Bay Middle School	Mrs. Meg Ishee
J1208	Does the Type of	Thermal Paste Impact the CPU	J Temperature?
Honorab	ole Mention		
Rishabh Singh	า	Patriot Oaks Academy	Ms. Denise Jones
J1209	Contactless Brak	es	
First Pla	се		
Miuru K Warus	sawithana	Patriot Oaks Academy	Ms. Denise Jones
J1209	Contactless Brak	es	
First Pla	ce		
Junior	Plant Science	S	
TJ Kaminsky		Alice B. Landrum Middle School	Mr. Joseph Anzelmo
J1303		of Circadian to Ultradian Rhyth Monophasic vs Polyphasic Pho	nms in <i>Arabidopsis thaliana</i> ; An otoperiods
Second	Place		
Senior	Behavioral &	Social Sciences	
Chase H Len	•	Ponte Vedra High School	Mr. Steve Lyms
S0203	Testing Students Academic Placer		Ingraded Assessments Based on
Fourth F	Place		
John R Molm		Ponte Vedra High School	Mr. Steve Lyms
S0203	Testing Students Academic Placer		Ingraded Assessments Based on
Fourth P	Place		
Cullen C Smir	th	Ponte Vedra High School	Mr. Steve Lyms
S0203	Testing Students Academic Placer		Ingraded Assessments Based on
Fourth F	Place		
Senior	Biomedical &	Health Sciences	
Cassia B Wan	ng	Ponte Vedra High School	Dr. Kathryn Kehoe
S0303	~	Drugs to Prevent Neurotoxicity	
Recogni	tion		
Adam B Snow		Ponte Vedra High School	Mr. Steve Lyons
S0331		ified, Capacity-Efficient Adeno- luorescent Protein to Visualize	Associated Virus Vector Using a Surface Infection in Multiple Cell Types
Third Pla	ace		

Senior Earth & Environmental Sciences

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Madison A Toonder		Ponte Vedra High School	Dr. Kathryn Kehoe
S0604	SPF's of Microniz	zed Chemical Sunscreen as C al Sunblock on Gape Rate, Bo	nemical Active Ingredients in Ascending compared to Non-Nanosized Uncoated ehavior and Filtration Capacity of
First Plac	e		
Senior	Intelligent Mad	chines, Robotics, & System	s Software
Brighton A And	celin	Creekside High School	Mrs. Amy Eardley
S0903	Logical Levitation	n: Achieving Magnetic Levitation	on via Computational Feedback Loop
Third Pla	ce		
Senior	Mathematics of	& Computational Sciences	
Yooree Ha		Ponte Vedra High School	Dr. Kathryn Kehoe
S1003	Fractal Analysis	of Electroretinograms from Pa	tients Afflicted with Retinitis Pigmentosa
Third Pla	ce		
Senior	Microbiology		
Ariana A Geno	vese	Ponte Vedra High School	Dr. Kathryn Kehoe
S1104	Iron's Effect on the	ne Intrusion of a Pathogenic A	gent on a Host Organism
Fourth Place			
Gabriela A Ramirez		Ponte Vedra High School	Dr. Kathryn Kehoe
S1104	Iron's Effect on the	ne Intrusion of a Pathogenic A	gent on a Host Organism

Fourth Place

14 awards for St. Johns Region

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St. Lucie

Senior Plant Sciences

Junior	Earth & Enviro	onmental Sciences	
Jillian C Markle	e	Lincoln Park Academy	Mrs. Sally Vandereedt
J0635		asive Weevil in Florida? Can Certain Natu trol the Leaf Damage Done by the Sri Lanl Best?	
Fourth PI	ace		
Junior	Engineering		
Jack H Krasula	k	Saint Andrew's Episcopal Academy	Mr. Zane Barrus
J0754	Mitigating the Eff	ects of IED Explosion Through Novel Hull	Design
First Plac	e		
Junior	Plant Science	s	
Asha J Budhai		Oak Hammock K-8 School	Mrs. Ammie McCurley- Hammond
J1336	Keep the "Oil" in	Soil	Hammond
Recogniti	on		
Senior	Cellular/Moled	cular Biology & Biochemistry	
Koushal Rao		Lincoln Park Academy	Ms. Lisa Hevner
S0441	Targeting Mistra	nslaion in Cancer Therapy	
Third Pla	ce		
Kevin Duan		Lincoln Park Academy	Mrs. Linda Rao
S0442	Development of Peroxide Levels	Rapid Detection for Citrus HLB Infection Ba of Host Plants	ased on the Hydrogen
Fourth PI	ace		
Senior	Earth & Enviro	onmental Sciences	
Shreya K Redo	ly	Lincoln Park Academy	Ms. Lisa Hevner
S0641		Solution to Citrus Root Distruction: Develo eevils and Other Pests Using a Methylxan	. •
Second F	Place		
Senior	Engineering		
Anthony C Ore	0	Ft. Pierce Central High School	Ms. Shideh Saleki
S0744	Foiled Again	_	
Honorabl	e Mention		
Christopher J S	Swinford	Ft. Pierce Central High School	Ms. Shideh Saleki
S0744	Foiled Again		
Honorabl	e Mention		

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Haniya Shareet		Lincoln Park Academy	Ms. Lisa Hevner	
S1334		Soil Disinfestation Create a Disease-Suppressive Soil to <i>Phytophthora</i> arium oxysporum f.sp. lycopersici?		
Fourth Pla	ace			
Peter D Jones		Olivet Private School	Mrs. Deanna Pick	
S1335	Minimizing the Titer of Cadidatus Liberibacter Asiaticus in the Phloem of Citrus Trees Using Anti-microbials			

Fourth Place

10 awards for St. Lucie Region

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Suwannee Valley

• aa	o rang		
Junior	Animal Scie	nces	
Abigail G Ri	pplinger	Lake Butler Middle School	Mrs. Stephanie Sellers
J0128	Organic or Inol	ganic: Which One Yields a Better Qua	ality Egg
Secon	d Place		
Junior	Chemistry		
Katie A Care	en	Lake Butler Middle School	Mrs. Stephanie Sellers
J0538	Urine Trouble		
Fourth	Place		
Junior	Engineering		
Evan R Amp	oaro	Lake City Middle School	Ms. Jenifer Lanston
J0748	You Think You	r Strong? Look at These Shapes	
Honora	able Mention		
Gyro G Delo		Lake City Middle School	Mrs. Edith Means
J0749	Improving Ship	's Stability in Rough Seas	
Fourth	Place		
Senior	Animal Scie	nces	
Eric J Rykar	rd	Madison County High School	Mrs. Andrea Krell
S0125		d Diminishing the Biogas Emissions o ale through Dietary Supplements	f the <i>Bos taurus</i> by the Utilization o
Fourth	Place		
Senior	Behavioral d	& Social Sciences	
Klara L Fleto	cher	Fletcher Academy	Mrs. Kristie Fletcher
S0227	Memory Matte	rs: Estabilishing Effective Retention St	trategies
Honora	able Mention		
Senior	Earth & Env	ironmental Sciences	
Linash Thon	nas	Columbia High School	Mrs. Celena Crews
S0636	The Factors Af Year 2	fecting Concentration of Dissolved Ox	tygen Content in Bodies of Water:
Honora	able Mention		
Senior	Engineering		
Andrew-Pau	ll Griffis	Union County High School	Ms. Renae Allen
S0740	What Is the Eff	ect of Humidity on Drying Time and S	trength of an Adhesive Bond?

Honorable Mention

Senior Plant Sciences

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Alison H De	eloach	Ft. White High School	Mr. Wayne Oelfke
S1330	Does the Den	sity/Row Affect the Triple Bottom Line	
Fourt	h Place		
Austin T Ma	attox	Ft. White High School	Mr. Wayne Oelfke
S1330	Does the Den	sity/Row Affect the Triple Bottom Line	

Fourth Place

10 awards for Suwannee Valley Region

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Thomas Alva Edison

THOMA	Alva Edison		
Junior	Animal Science	es	
Maya S C		Canterbury School of Fort Myers	Mrs. Cara Summit
J0104	The Effects of Ult variegatus (A No	rasound Waves vs Laser Beams on the R vel Study)	Regrowth of <i>Lumbriculus</i>
Firs	t Place		
Junior	Cellular/Molec	ular Biology & Biochemistry	
Carson F	Reid Maschmeier	St. Michael's Lutheran School	Ms. Jenifer Pease
J0403		e Correlation between Handedness and C ce between Multiple Generations	ocular Dominance and Its
Thir	d Place		
Junior	Chemistry		
Morgan E	Barkhurst	North Fort Myers Academy of the Arts	Ms. Brandee Summerall
J0505	BPA Free? Let's	See!	
Fou	rth Place		
Iris M Fro	ost	Six Mile Charter Academy	Mrs. Angela Leveans
J0506	Cats Counting Ca	alories	
Thir	d Place		
Junior	Earth & Enviro	onmental Sciences	
Ryan C S	Scharlau	St. Michael's Lutheran School	Ms. Jenifer Pease
J0604	Is Solar Power or	Wind Power More Effective in Southwest	: Florida?
Sec	ond Place		
Charlie J	Suroski	St. Michael's Lutheran School	Ms. Jenifer Pease
J0605	Torpedo Grass C	ontrol	
Rec	cognition		
Junior	Engineering		
James D	Humpel	Saint Charles Borromeo Catholic School	Mr. Chris Mullins
J0709	"The WRIGHT St Flaps Affect Lift a	uff" How Does the Change in Shape of ar and Drag?	n Airfoil Through the Use of
Firs	t Place		
	R VanZanten	Fort Myers Christian School	Ms. Lori Cadwell
J0711	What Factors Affo	ect Pinewood Derby Car Speeds?	
Firs	t Place		
Junior	Microbiology		
Colton G	Novella	Crestwell School	Ms. Beth Hopkins
J1101	Electromagnetic l Drosophila melar	Field and the Effects on Chromosomal De nogaster	velopment and Mutations i
Sec	ond Place		

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Junior	Plant Science	S	
Joshua D Zinge	el	Evangelical Christian School	Mrs. Sally Wenzel
J1307	Effects of Various	s Water Sources on Plant Growth	
Honorabl	e Mention		
Senior	Cellular/Moled	cular Biology & Biochemistry	
Jay S Chanda	r	Canterbury School of Fort Myers	Ms. Kelly Mahan
S0406	Alzheimer's Path	the Cure: The Effect of Neuroinflammatior ology and the Development of Therapeutic Model (A Third Year Study)	
Fourth Pl	ace		
Senior	Chemistry		
Anna Kucera		Canterbury School of Fort Myers	Ms. Kelly Mahan
S0503		sisphenol-A Concentration Levels in Cans Mass Spectrometry	and Plastic Bottles Using Gas
Fourth Pl	ace		
Senior	Earth & Enviro	onmental Sciences	
Melissa J Marc	hese	Canterbury School of Fort Myers	Ms. Kelly Mahan
S0607	The Effects of Co Pollutants and Re	oal Burning Power Plants on Residential Alespiratory Health	reas Including Environmental
Honorabl	e Mention		
Senior	Microbiology		
Arjun D G Sing	gh	Canterbury School of Fort Myers	Ms. Kelly Mahan
S1106		sing Waste Fry Oil as a Source of Carbon noates (PHA) from Cupriavidus Necator H	
Recogniti	on		
Simrun M Vars	shney	Canterbury School of Fort Myers	Ms. Kelly Mahan
S1106		sing Waste Fry Oil as a Source of Carbon noates (PHA) from Cupriavidus Necator H	
Recogniti	on		
Senior	Plant Science	s	
Lorrie L Konop	asek	Lemon Bay High School	Mrs. Jenee Mora
S1303	The Effects of Wa	ater Components on Duckweed Growth	
Recogniti	on		
Sean P O'Con		Canterbury School of Fort Myers	Ms. Kelly Mahan
S1304	A Comparative A aquaticum	nalysis of Tissue-Specific Silver Hyper-Ac	cumulation in <i>Myriophyllum</i>

Fourth Place

17 awards for Thomas Alva Edison Region

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Three Rivers

111100 1414			
Junior	Animal Science	ces	
Cecilia Shul	er	Holy Nativity Episcopal School	Mrs. Lisa Davis
J0103	Look Out Termite	es Here I Come!	
Fourth	Place		
Junior	Behavioral &	Social Sciences	
Jude Cain		Covenant Christian School	Mrs. Candace Whitmore
J0203	Deep Doodles: E	ffects of Repetitive Line Drawings o	n Auditory Memory
Second	d Place		
Colin L Cam	pbell	Covenant Christian School	Mrs. Candace Whitmore
J0203	Deep Doodles: E	Effects of Repetitive Line Drawings o	n Auditory Memory
Second	d Place		
Mathew Holle		Covenant Christian School	Mrs. Candace Whitmore
J0203	Deep Doodles: E	Effects of Repetitive Line Drawings o	n Auditory Memory
Second	d Place		
Junior	Biomedical &	Health Sciences	
Emma E Jol	nnson	Bay Haven Charter Academy	Mrs. Anna McEntire
J0301	Now You See It,	Now You Don't!	
Honora	able Mention		
Sydney A Po	lanin	Breakfast Point Academy	Mrs. Kimberly Troia
J0302	Discovering the	Hidden Sugars in Your Food	
Recogn	nition		
Junior	Chemistry		
Elijah L Jack	rson	Bay Area Homeschools	Mrs. Wendi Jackson
J0503	Can Dirt Charge	a Cell Phone?	
Fourth	Place		
Junior	Engineering		
Alex E Johns		Bay Haven Charter Academy	Mrs. Amy Canfield
J0706	Green Gaming		
Recogn	nition		
Joseph T Ly		Surfside Middle School	Mrs. Linda Yori
J0707	Shaking Up Som	ne Light	
Recogn	nition		
Sami Najib		Panama City Advanced School	Dr. Abdulrahman Al-Dubaie
J0708	Wings of Uplift		
Recogn	nition		
J			

Senior Engineering

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Shixuan Justin	n Li	Rutherford High School	Mrs. Victoria Steele
S0704	Clathrate Assiste	d Freezing-Melting Seawater Desalination	

First Place

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Junior	Animal Science	ces	
Jaemy Lee		Deltona Middle School	Ms. Carey Potter-Whiting
J0109	Hemoglobin Synt	thesis	
Recogn	ition		
Junior	Cellular/Moled	cular Biology & Biochemistry	
Tammy Nguy	yen	River Springs Middle School	Mr. John Darby
J0407	Determine the Ef	fect of Surface Temperature on the Clarity	of a Fingerprint on Glass
Honoral	ble Mention		
Junior	Chemistry		
Melanie L Du	nfee	New Smyrna Beach Middle School	Mr. Jack Foley
J0512	Can the Angle of Molecule?	Polarization Be Used to Determine the Ch	nirality of an Optically Active
Fourth F	Place		
Senior	Biomedical &	Health Sciences	
Dalton L Price	e	Spruce Creek High School	Ms. Anne M. Cooney
S0305		Antiody: Development and Construction of eating Alzheimer's Disease	f an Amyloid-specific
Third PI	ace		
Senior	Earth & Enviro	onmental Sciences	
Azanta K Tha	ıkur	Spruce Creek High School	Ms. Anne M. Cooney
S0616	Bioremediation: A	A Natural Halophytic Filter	
Recogn	ition		
Senior	Mathematics of	& Computational Sciences	
Grace Liu		Spruce Creek High School	Dr. Don Spence
S1006	The Road Not Ta	ken	
Honoral	ble Mention		
Senior	Physics & Ast	ronomy	
Kaylyn Ling		Spruce Creek High School	Ms. Anne M. Cooney
S1209	Acoustic Levitaio	n: Defying Gravity Using Sound Waves	
Fourth F	Place		
Senior	Plant Science	s	
Nina Ramcha		Spruce Creek High School	Mrs. Linda Kerney
S1306		t of Monochromatic Light on theReaction I	

Honorable Mention

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Ruohan Wu	Spruce Creek High School	Mrs. Linda Kerney
S1307	Exploring the Effect of Water-soluable Vitamins on	Growth of Cholerella sorkiniana

Recognition

9 awards for Tomoka Region

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West Panhandle

Junior	Behavioral &	Social Sciences	
Hope M Fell		St. John the Evangelist Catholic School	Mrs. Erica Levitt
J0204	Does Hair Color	Change the Perception of Your Intelligence	ce?
Fourth P	lace		
Lauren Lacou		St. John the Evangelist Catholic School	Mrs. Erica Levitt
J0204	Does Hair Color	Change the Perception of Your Intelligence	ce?
Fourth P	lace		
Emily G Went	zel	St. John the Evangelist Catholic School	Mrs. Erica Levitt
J0204	Does Hair Color	Change the Perception of Your Intelligence	ce?
Fourth P	lace		
Hannah N Me	eyers	Saint Paul Catholic School	Mrs. Blair Hodge
J0205	Quicker on Your	Feet?	
Fourth P	lace		
Junior	Chemistry		
Mary K Beloa		Holley Navarre Middle School	Mrs. Kathryn Clark
J0507	What's The Buzz	Z About C8H10N402?: Extracting Caffeine	from Everyday Beverages
Honorab	le Mention		
Junior	Intelligent Ma	chines, Robotics, & Systems Software	
Ravi Raj	miconigoric ma	Brown-Barge Middle School	Mr. Richard Hunter
J0903	Binary Adds Up		
Honorab	le Mention		
Regan W Ruc		Holley Navarre Middle School	Mrs. Kathryn Clark
J0904	R.O.V. Under the	e Sea	
Second I	Place		
Junior	Microbiology		
Mary E Gallov		Saint Paul Catholic School	Mrs. Blair Hodge
J1103	•	Comparison to Microban Antimicrobial Kno	
		•	
Fourth P Payden Mourit		Brown-Barge Middle School	Mrs. Susan Hunter
J1104	To Bud or Not To	-	Wild. Oddan ridiiloi
Recognit			
Junior	Physics & Asi	•	
Timmy M Hod	-	Saint Paul Catholic School	Mrs. Blair Hodge
J1213	Tension Tying To	ecnniques	
Honorah	le Mention		

Honorable Mention

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Kori S Vertz		Warrington Middle School	Mrs. Revonda Elowe
J1214	Light Colors and	_	IVIIS. Nevolida Llowe
Honorabl	e Mention		
Senior	Behavioral & S	Social Sciences	
Lauren Beall		Pensacola High School	Mrs. Cherie Stephens
S0207	To What Extent DE Eyewitness Testi	Ooes the Cross Race Effect and Education monies: Year II	Level Impact the Accuracy of
Fourth Pl	ace		
Patricia K McA	Auley	Pensacola High School	Mrs. Cherie Stephens
S0207	To What Extent DE Eyewitness Testi	Does the Cross Race Effect and Education monies: Year II	Level Impact the Accuracy of
Fourth PI	ace		
Holley Meaney	,	Pensacola High School	Mrs. Cherie Stephens
S0207	To What Extent DE Eyewitness Testi	Does the Cross Race Effect and Education monies: Year II	Level Impact the Accuracy of
Fourth PI	ace		
Senior	Earth & Enviro	onmental Sciences	
Kelly L Wu		Pensacola High School	Mrs. Cherie Stephens
S0610	Solar-Powered M	lembrane Distillation	
Fourth Pl	ace		
Senior	Engineering		
Kinan T Alshei	kh	Pensacola High School	Mrs. Cherie Stephens
S0708	A Langmuir Film's a Langmuir Blodg	s Variance in Relation to Its Deposition on gett Film	a Solid Substrate in Creating
Honorabl	e Mention		
Carla G Dias		Pensacola High School	Mrs. Cherie Stephens
S0708	A Langmuir Film's a Langmuir Blodg	s Variance in Relation to Its Deposition on gett Film	a Solid Substrate in Creating
Honorabl	e Mention		
Alexander Pop	е	Pensacola High School	Mr. Allan Robinson
S0709	Monitoring Your E	Brainwaves at Home with EEG	
Recognit	ion		
Senior	Environmenta	l Engineering	
Elleon S Forty		Pensacola High School	Mr. Allan Robinson
S0805	The Number of B	lades vs the DC Voltage Generated	
Recognit	ion		
Jeffrey A Suthe		Pensacola High School	Mr. Allan Robinson
S0805	The Number of B	lades vs the DC Voltage Generated	
Recognit	ion		

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Intelligent Machines, Robotics, & Systems Software

Senior

Geneva Nanette Anderson		West Florida High School of Advanced Technology	Mrs. Cheyenna Novotny		
S0905	Analysis of Pu	Analysis of Pupil Computer Recognition to Avoid Distracted Driving			
Fourth	n Place				
Senior	Physics & Astronomy				
Jacob P Fe	rris	Pensacola High School	Mrs. Cherie Stephens		
S1204	Keeping the F	leat			

Recognition

22 awards for West Panhandle Region

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