



SUPPORTED BY



Louisiana State Science
& Engineering Fair
2023

Junior Division Results

April 4, 2023

Louisiana State
University

Animal Sciences						
1	McKendrian	Coleman	8	AN-006	Kenilworth Science and Technology	Effect of temperature on tunneling and feeding behavior of the Formosan subterranean termite (<i>Coptotermes formosanus</i>)
2	Carina	Liljeberg	8	AN-007	Glasgow Middle School	Waxworms and Plastic
3	Savannah	English	7	AN-199	Providence Classical Academy	CHICKEN EGG PRODUCTION
4	Gracie	Moore	8	AN-094	Winnfield Middle School	Do Dogs have Paw Preference
Honorable Mention	Owen	Gonzales	6	AN-228	St. Bernard	Which type of rice brand do deer prefer?
Behavioral & Social Sciences						
1	Elizabeth	Kelley	7	BEH-005	Our Lady of Lourdes	Pantastic Cookies!
2	McKenzie	Meiki	7	BEH-205	St Joseph Catholic School	Pearly Whites Gone Wrong; Rethink our Drink
3	Allie-Claire	Caillier	6	BEH-167	St. Bernard	If You Can't See or Smell, Can You Tell?
3	Annie-Kate	Caillier	6	BEH-167	St. Bernard	If You Can't See or Smell, Can You Tell?
4	Vivian	Seeling	6	BEH-180	Our Lady of Prompt Succor School	Sweet Sleep
Honorable Mention	Amie	Hinkle	8	BEH-091	St. Frederick High School	Your Brain on ADHD
Honorable Mention	Cade	Nickelson	8	BEH-091	St. Frederick High School	Your Brain on ADHD
Biochemistry						
1	Fionna	Lu	7	BCM-008	Glasgow Middle School	The Beauty of a Tiny Plasmid
2	Karmen	Cheng	8	BCM-009	Sherwood Middle Academic Magnet	The Effects of Different Amounts of Sodium Dodecyl Sulfate on The Amount of DNA Extracted
3	Logan	Mazant	7	BCM-161	Lake Forest Charter School	Hand Sanitizer vs Heat
4	Kalem	Miqbel	8	BCM-219	St. Frances Cabrini School	Which Water has the Most Bacteria?
Honorable Mention	Anna	Barnidge	8	BCM-154	St. Frederick High School	Think Fast
Biomedical & Health Sciences						
1	Shrey	Shah	8	BM-013	Dutchtown Middle School	Is terrofluid technology a game changer when it comes to the purification of water with micro plastic contamination?
2	Kennedie	Crochet	7	BM-079	Pierre Part Elementary School	What's Really In Your Water?
2	Mia	Landry	6	BM-079	Pierre Part Elementary School	What's Really In Your Water?
3	D Peyton	Mayer	8	BM-048	Northlake Christian School	The Efficacy of Topical Acne Treatment
4	Braelyn	Vines	7	BM-100	Winnfield Middle School	Unwind with Pet Kind
4	Leo	Bryant	7	BM-100	Winnfield Middle School	Unwind with Pet Kind
Honorable Mention	Sam	Prewitt	7	BM-059	Prudentia Classical Academy	Leg's Longevity
Honorable Mention	Sam Daniel	Rashall	7	BM-059	Prudentia Classical Academy	Leg's Longevity
Cellular & Molecular Biology						
1	Max	Dunaway	7	CE-017	Glasgow Middle School	Does laser damage increase or decrease the viability of embryos (<i>mus Musculus</i>)
2	Sofia	Rojas	8	CE-016	Kenilworth Science and Technology	CRYOPROTECTANT: Do you need it?
3	Lela Margaret	Miller	8	CE-140	Glenbrook School	How does Water Temperature Affect Yeast?
4	Eli	Barrilleaux	8	CE-134	Bayou Community Academy	Does Caffeine Affect Typing Speed?
Honorable Mention	Natalie	Perez-Cruz	8	CE-220	St. Frances Cabrini School	Testing Iodized Salt
Chemistry						
1	Daniel	Kim	8	CH-018	Glasgow Middle School	The Effect of Salt on Enzymatic Browning
2	Christine	Kim	6	CH-019	Glasgow Middle School	Is Black Ink Really Black?
3	Sophia	Blondell	7	CH-200	Lake Forest Charter School	What's the Hype on Electrolytes?
4	Addison	Maciaszek	8	CH-126	St. Frederick High School	Bubbles Be Gone
Honorable Mention	Abigail	LeBaron	6	CH-123	Carencro Catholic	Keep Your Pearly Whites Pearly White
Computational Biology & Bioinformatics						
1	Aadi	Singh	8	CB-015	Sherwood Middle Academic Magnet	Mental Health and Socioeconomic Factors
2	Rishabh	Gala	8	CB-014	Glasgow Middle School	Simulating Chaos in Predator-Prey Populations

Earth & Environmental Sciences						
1	Leonie	Herrmann	8	EA-020	St. Jude the Apostle	Seismic Shakeup!
2	Kunaal	Dey	8	EA-021	Glasgow Middle School	An Earthquake or the Dryer? Analysis of Raspberry Shake Data
3	Varsha	Manikandan	8	EA-130	Caddo Parish Middle Magnet School	Energy for Futures
4	George	Bernard	7	EA-149	St. Catherine of Siena	Hot Times in the City of Solton
Honorable Mention	Gabrielle	Nguyen	8	EA-226	Lake Forest Charter School	Which Type of Detergent is Less Toxic
Embedded Systems						
1	Anya	Trutschl	6	EB-170	Caddo Parish Middle Magnet School	CAFeY: Computer-Aided Fermentation of Yogurt
2	Emily	Cabrera	8	EB-144	John Curtis Christian	What Materials Blocks a Bluetooth Signal?
3	Sophia	Foret	6	EB-188	John Curtis Christian	What Affects a WiFi Signal?
Energy: Sustainable Materials & Design						
1	Logan	Benoit	6	ES-085	Bayou Community Academy	Rocket Stability
2	Emelia	Uzee	6	ES-166	St. Catherine of Siena	Color vs. Heat
3	Jacob	Zeringue	7	ES-002	St. Peter’s Catholic School	What mug can hold temperature best?
4	Caleb	Colbert	7	ES-224	Lake Forest Charter School	Windy Days Green Energy Crisis
Honorable Mention	Lila Lee	White	7	ES-172	St. John Berchmans Catholic School	Solar Power vs Mr. Freeze
Engineering Technology: Statics & Dynamics						
1	Cambria	Lancon	6	ENG-142	V.B. Glencoe Charter School	Will it Spin?
2	Jonah	Cothran	7	ENG-159	International School Of Louisiana	How Paper Airplane Design and Material Affect Flight
3	Benjamin	Cerise	6	ENG-169	St. Catherine of Siena	Sodium Polyacrylate
3	Sophie	Rodriguez	6	ENG-169	St. Catherine of Siena	Sodium Polyacrylate
3	Barrett	Worley	6	ENG-169	St. Catherine of Siena	Sodium Polyacrylate
4	Mia	Fuselier	7	ENG-136	Opelousas Catholic School	"Weight, Is That a Plane?"
Honorable Mention	Shepherd	Cox	7	ENG-181	Providence Classical Academy	The Greatest Solutions to the Greatest Divides
Environmental Engineering						
1	Abigail	Richardson	8	EE-001	Southeastern Lab School	No Silver Lining
2	Zoe	Smith	6	EE-208	St. Frances Cabrini School	The Effects of Salinity on Plants
3	Ella	Higginbotham	7	EE-090	Winnfield Middle School	Erosion Eradication
4	Autumn	Miller	6	EE-193	Sunset middle school	What is the best way to purify water?
Honorable Mention	Pranav	Adhikari	8	EE-023	Glasgow Middle School	Antimicrobial properties of bacterial cellulose with silver nanoparticles
Materials Science						
1	Karoline	Lee	7	MS-227	Providence Classical Academy	Insulation Information
2	Noah	Naquin	7	MS-105	Montegut Middle School	Power Through the Elements
3	Dessa	Tremblay	6	MS-030	Sherwood Middle Academic Magnet	Flammable Fabrics
4	Lee	Hencke	6	MS-107	Carencro Catholic	Race to Go the Distance
Honorable Mention	Maverick	Hassenboehler	7	MS-072	John Curtis Christian	Should you buy recycled golf ball or brand new expensive golf balls?
Mathematics						
1	Anna	Alcock	6	MA-078	St. Margaret Catholic School	Dome vs. Dome
2	Sarah	Augustin	8	MA-075	John Curtis Christian	Does Height Affect Olympic Medal Placement in Women's Volleyball?
3	Sarai	Martinez	7	MA-026	Kenilworth Science and Technology	Flying In space
4	Eleanor	McNally	8	MA-045	St. Margaret Catholic School	Buffon's Needle
Honorable Mention	Austin	Poole	6	MA-027	Kenilworth Science and Technology	How to Create a 7 Layer Density Column
Microbiology						
1	Abigail	Qi	8	MC-029	Glasgow Middle School	Identifying the Most Potent Strains of Bdellovibrio and Like Organisms from the Gulf of Mexico for Control of Vibrio Infection in Aquaculture
2	Rylee	McField	8	MC-177	Lake Forest Charter School	Lemons' Extract Vs. Hand Sanitizer
3	Addie	Landry	8	MC-196	Cecilia Junior High	If it Glows does it Grow
4	Kara	Chen	6	MC-028	Glasgow Middle School	Aloe Vera and Bacteria
Honorable Mention	Amari	Griffin	7	MC-127	Houma Jr. High School	The Cheeses Mite Chase

Physics & Astronomy						
1	Bobby	Chen	8	PH-229	Glasgow Middle School	The Physics of Catapult Projectile Motion
2	Judah	Fastring	7	PH-004	Boyett Jr. High School	Misleading Magnets
3	Bradley	Stucker	7	PH-003	St. Peter's Catholic School	A Sticky Situation
4	Emily Grace	Adams	7	PH-067	Winnfield Middle School	Let's Have a Conversation About Radiation!
Honorable Mention	Kaylee	Zhang	7	PH-050	Bishop Noland Episcopal Day School	The Secret of a Bird's Flight
Plant Sciences						
1	Sadie	Blackwood	6	PS-197	Providence Classical Academy	How Do Different Types of Water in Hydroponics Affect How Tall the Plant Grows?
2	Samara	Bryant	8	PS-036	Glasgow Middle School	The Source: Algae Blooms in the LSU Lakes
2	Elise	Wilson	8	PS-036	Glasgow Middle School	The Source: Algae Blooms in the LSU Lakes
3	Hannah	Billson	7	PS-083	John Curtis Christian	Year II: Will Adding Cardboard, Nitrogen, Phosphorus, Potassium, and Potting Soil Improve Alfalfa Growth in Martian Soil?
4	Summer	Valdez	6	PS-207	St. Frances Cabrini School	How the Different Types of Music Affect Plant Growth
Honorable Mention	Anaya	Chanda-Rastogi	8	PS-034	Sherwood Middle Academic Magnet	The Effect of Home-Based Ripening Products on Climacteric Fruits
Robotics & Intelligent Machines						
1	Tucker	Berken	7	RO-087	Youngsville Middle School	Robot Driver: Are YOU Up For the Ride?
2	Lang	Lawson	7	RO-230	St. Joseph Catholic School (Shreveport)	Does the Type of Filament affect the Quality of 3D Print
3	Joni	Bush	7	RO-086	Lake Forest Charter School	Homemade vs Commercial Pulse Monitor
4	John	Cristina	8	RO-202	Sherwood Middle Academic Magnet	The Effect of Games on Victories
Honorable Mention	Devin	Johnson	7	RO-194	Plaisance Middle School	How to Build a Hydraulic Robot Arm
Systems Software						
1	Sawyer	Barron	7	SS-132	John Curtis Christian	Squirrel Squealer Year II: Adding AI to identify audio waves to produce a "label" to identify "squirrel" sounds.
2	Paul	Carmichael	7	SS-040	Glasgow Middle School	What's a better outcome for your Wordle guess?
3	Alexander	Randall	7	SS-039	Kenilworth Science and Technology	Super Computing in Your Pocket
Translational Medical Science						
1	Dev	Iyer	7	TM-041	Glasgow Middle School	Investigating the Effects of Triclosan Exposure on the Antibacterial Resistance of Escherichia coli
2	Hadleigh	Jeansonne	6	TM-119	Sacred Heart School Moreauville	Colorblind? What's That?
3	Elaine	Hsia	7	TM-042	Glasgow Middle School	Can Oil Protect Hair from Chlorine Damage?
4	Marlee	Zeringue	7	TM-073	Opelousas Catholic School	Heart Races
Honorable Mention	Ibtihal	Hasod	7	TM-160	Islamic school of Greater New Orleans	What triggers migraines and which kinds of medication work best?

Louisiana Section of the American Society of Civil Engineers Special Award						
1st place	Jonah	Cothran	7	ENG-159	International School Of Louisiana	How Paper Airplane Design and Material Affect Flight
2nd place	Logan	Benoit	6	ES-085	Bayou Community Academy	Rocket Stability
Official of Naval Research (ONR) Special Award						
	Anya	Trutschl	6	EB-170	Caddo Parish Middle Magnet School	CAFeY: Computer-Aided Fermentation of Yogurt
	Samara	Bryant	8	PS-036	Glasgow Middle School	The Source: Algae Blooms in the LSU Lakes
	Elise	Wilson	8	PS-036	Glasgow Middle School	The Source: Algae Blooms in the LSU Lakes
Lemelson Early Inventor Special Award						
	Anya	Trutschl	6	EB-170	Caddo Parish Middle Magnet School	CAFeY: Computer-Aided Fermentation of Yogurt
Thermo Fisher Scientific Junior Innovators Challenge (JIC) Nominees						
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	Elizabeth	Kelley	7	BEH-005	Our Lady of Lourdes	Pantastic Cookies!
	Fionna	Lu	7	BCM-008	Glasgow Middle School	The Beauty of a Tiny Plasmid
	Shrey	Shah	8	BM-013	Dutchtown Middle School	Is ferrofluid technology a game changer when it comes to the purification of water with micro plastic contamination?
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	Daniel	Kim	8	CH-018	Glasgow Middle School	The Effect of Salt on Enzymatic Browning
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	Leonie	Herrmann	8	EA-020	St. Jude the Apostle	Seismic Shakeup!
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	Abigail	Richardson	8	EE-001	Southeastern Lab School	No Silver Lining
	Karoline	Lee	7	MS-227	Providence Classical Academy	Insulation Information
	Anna	Alcock	6	MA-078	St. Margaret Catholic School	Dome vs. Dome
	Abigail	Qi	8	MC-029	Glasgow Middle School	Identifying the Most Potent Strains of Bdellovibrio and Like Organisms from the Gulf of Mexico for Control of Vibrio Infection in Aquaculture
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	Hadleigh	Jeansonne	6	TM-119	Sacred Heart School Moreauville	Colorblind? What's That?
1st Place Overall						
	Sadie	Blackwood	6	PS-197	Providence Classical Academy	How Do Different Types of Water in Hydroponics Affect How Tall the Plant Grows?
2nd Place Overall						
	Elizabeth	Kelley	7	BEH-005	Our Lady of Lourdes	Pantastic Cookies!
Top Scoring School						
	Glasgow Middle School					