

# Ozark Region

## Missouri Junior Academy of Science – March 27, 2026

<b>Highly Superior</b>		
Ava Hines	<b>Junior</b>	Do or Dye: The Effects of Food Dye on Cognitive Ability
Nash Willoughby	<b>Junior</b>	Piezoelectric Panels
Jaxon Biggers	<b>Junior</b>	Poly Shield
Bryce Bruck	<b>Junior</b>	Defending the shores
Clay Sangster	<b>Junior</b>	Sinking Cities
Tyson McKay	<b>Junior</b>	Temperature Test
Larry (Gavyn) Quade	<b>Senior</b>	Designing a Contamination-Free Electrolyte Solution Transfer System for Hydration Pack
Aaliyah Kim	<b>Senior</b>	The Affects of Ball-Milled Biochar Modified with Magnesium Chloride and Iron Oxide on Removal of Phosphorus in Water
Lorelai Waite	<b>Senior</b>	The impacts of typeface on accessibility in professional and educational setting for individuals with symptoms of reading disabilities
Liam Allen	<b>Senior</b>	Development of a Wearable Gesture-Recognition Wristband for Home Automation
Gyan Grewal	<b>Senior</b>	Toxic Mechanisms of Per- and Polyfluoroalkyl substances in Fungal cells: Environmental and Human Health Impact

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<b>Superior</b>		
Moriah Freese	<b>Junior</b>	Farm Underwater
Cap Kellenberger	<b>Junior</b>	The Sea Bloom
Elena Bennion	<b>Junior</b>	Where the Wild Things Grow
CJ Emory	<b>Junior</b>	Heel the Pain
Liam McKay	<b>Junior</b>	Seeing Red: The Effect of Red 40
Kayden Rutledge	<b>Junior</b>	The Tooth Fairy Project
Ethan Lucas	<b>Junior</b>	Artificial vs Authentic
Nam Ho	<b>Junior</b>	Food for the Eyes
Nora Mitschele	<b>Senior</b>	Microorganism Activity Enhanced Biochar as a Biological Improvement to Martian Regolith
Ashton Terry	<b>Senior</b>	Comparing Arduino-based Weather Sensors to Commercial Weather Apps
Delaney Kremer	<b>Senior</b>	The Effects of Zinc Sulfate on the Movement Behavior of <i>Porcellio laevis</i> Isopods
Conor McGruder	<b>Senior</b>	Short Term Effects of Quercetin on Dextran Sulfate Sodium (DSS) Induced Intestinal Inflammation in <i>Danio rerio</i>
Denver Woodruff	<b>Senior</b>	Synergistic Effects of Ginkgolide A, Resveratrol, Coenzyme Q10, and Curcumin on Amyloid-beta ( $A\beta$ ) Induced Paralysis in <i>C. elegans</i> (CL4176)

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<b>Excellent</b>		
Isabelle Rodriguez	<b>Senior</b>	Evaluating the Influence of Therapy Dogs on Student Stress Responses During High-Stress Academic Periods