



Hosted and sponsored by  
**The School of Natural Sciences and  
Mathematics**  
and  
**Stockton University**





101 Vera King Farris Drive | Galloway NJ 08205-9441  
[stockton.edu](http://stockton.edu)

Date: March 14, 2026  
To: Participants in the 51<sup>st</sup> Annual Jersey Shore Science Fair  
From: Amanda Norvell, Dean of Natural Sciences and Mathematics  
Subject: Welcome to Stockton University

On behalf of President Joe Bertolino, Provost and Vice President for Academic Affairs Michael Palladino, and the faculty, staff and students in the School of Natural Sciences and Mathematics, I welcome you to our Galloway campus. We are excited to see such a robust group of student scientists who represent many of the region's schools. Thank you to all the participants, mentors, judges, and volunteers who make a day like this possible.

Congratulations to our future scientists. As you have worked on these projects, you have had the opportunity to learn about the key principles of the scientific method, to develop hypotheses and design experiments to test your predictions. I hope you have found tremendous satisfaction in overcoming the challenges scientists face, for example grappling with unexpected results. The skills you are developing are identical to those needed by researchers, scientists, and professionals around the world as we work to address the global challenges that we face, such as climate change or antibiotic resistance, that require STEM-based solutions.

As you are thinking about your future education, I would like to invite you back to visit the University during our spring Discover Stockton Open House events ([stockton.edu/admissions](http://stockton.edu/admissions)) on Saturday, March 21, 2026. We offer an array of innovative and forward-looking academic programs for undergraduate students, as well as for post-graduate education and certification. Undergraduate degree programs are offered in Applied Physics, Biochemistry/Molecular Biology, Biology, Chemistry, Computer Science, Environmental Science, Geology, Health Science, Marine Science, Mathematics, Nursing, Public Health, and Sustainability, as well as dual degrees in engineering, pharmacy and medicine with our university partners (Rutgers, Rowan and NJIT). Our graduate and doctoral degrees focus on disciplines such as Coastal Zone Management, Communications Disorders, Data Science and Strategic Analytics, Environmental Science, Nursing, Occupational Therapy, Physical Therapy, and Nursing Practice. In addition, we support a farm, arboretum, pinelands research reserve, and a fleet of coastal oceanographic vessels ran out of the Marine Field Station located on the waterfront in nearby Port Republic.

Please visit the Academic Affairs website ([stockton.edu/academic-affairs/academic-schools-programs](http://stockton.edu/academic-affairs/academic-schools-programs)) to learn more about our majors and how a Stockton education can help you reach your goals. Should you want to visit the campus to tour our science facilities, Marine Science and Environmental Field Station in nearby Port Republic, or meet our faculty and students, please feel free to contact the School of Natural Sciences and Mathematics office ([nams@stockton.edu](mailto:nams@stockton.edu)).

I commend you all on a job well done and hope you enjoy the rest of the day.



# Contents

**All food Service and most appropriate areas for visitors to pass time during the 9:00 am to 12:00 pm judging sessions will be in the Campus Center.**

**All lunchtime Food Service will take place in the Campus Center.**

## **Interested in what Stockton has to offer? Then visit our tables in the Coffee House...**

The Admissions Office will offer a staffed table in the Sports Arena and provide campus tours at 12:30 PM-1:00 PM. Guided tours are also available during the week. You can also visit us during our next open House on **Sunday March 21, 2026**. Call Admissions with questions or to schedule a tour 609-652-4261.

Information tables for the School of Natural Sciences and Mathematics will also be in the Sports Area.

# Jersey Shore Science Fair Program

## March 14, 2026

### **7:45 – 8:45 am**

Project Registration – no earlier please

### **7:45 – 9:00 am**

Safety inspection. **Displays must comply with ISEF regulations.**

Students, please wear registration badges and remain by your displays

### **8:00 – 9:00 am**

Judges will meet in the Campus Center Event Room

### **9:00 – 12:00 pm**

Project judging. Students must wear registration badges and remain by their projects until 12 noon. Judges have until noon to visit and/or revisit projects. In order to be evaluated, students must be present. If a student leaves to use the restroom, please tell the person next to you in case judges come by at that time.

### **12:00 – 1:00 pm**

Project area opens to the public. **Student, please leave projects on display until 1:00 p.m.**

### **1:00 – 1:15 pm**

Students may take down displays

### **1:15 pm**

Awards Ceremony – All ages and categories, Sports Arena

# Code of Conduct

*For teachers, relatives and friends of the participants and other guests:*

The Science Fair provides an opportunity for students to talk with judges about their science projects. For this to occur without distraction, it is important that, during the judging period, the judges and students be left undisturbed. Therefore, between 9:00 am and noon, while judging is taking place, everyone except the judges and the students are asked to leave the immediate judging area. Individuals having questions about the judging process are asked to bring those questions to the Judging Center in the Campus Center Event Room.

Students must wear registration badges and remain by their projects until 12 noon. Judges have until 12:00 PM to visit and/or revisit projects – to be evaluated students must be present. If a student leaves to use the restroom, please tell the person next to you in case judges come by at that time.

Thank you for your cooperation.

## JSSF Acknowledgments

**Dr. Amanda Norvell** – Dean, School of Natural Sciences and Mathematics, Stockton University

**Dr. Christine Schairer** – JSSF Director and Safety Officer, Stockton University

**Rosanne Weiss** – Chief Judge, Retired FAA

**Adriane Sicknick** – Media and Publication Specialist, Stockton University

**Kayla Caputo** – TES, NAMS Web and Marketing Specialist

**Lou Regan** – Web Developer, Stockton University

# Special Awards

The Jersey Shore Science Fair Committee and the School of Natural Sciences and Mathematics would like to acknowledge the following groups for providing special awards to the participants of the 48<sup>th</sup> annual Jersey Shore Science Fair:

**The Natural Science and Mathematics Department** – The NAMS Department awards gift certificates to the 1<sup>st</sup> place projects in the Upper-level divisions.

**Institute of Electronics and Electrical Engineers** – The IEEE and Women in Engineering (WIE) award special prizes to the top projects in computer science and/or engineering.

**The Paul Saraduke, Jr. Award** – The top upper-level physics project will receive an award made possible through a generous gift from the Saraduke family as a living memorial to Paul Saraduke, Jr. Paul was a member of the Stockton NAMS staff and served regularly as a judge. This award is given in hopes that those that receive it will be encouraged to further pursue their interest in physics.

**American Chemical Society** – Awards two prizes to the projects in upper and intermediate chemistry divisions.

**Atlantic Cape Community College** – Provides an award to the top projects for Junior medicine and engineering categories.

**Save Barnegat Bay organization** will present an award for the top project representing Barnegat Bay. The environmental nonprofit organization, Save Barnegat Bay will present its annual "Barnegat Bay Award" to the students with the best and most beneficial project in the Barnegat Bay Watershed. Save Barnegat Bay is a 55-year-old grassroots organization whose mission is to restore and protect Barnegat Bay & its watershed through education, advocacy, legislation, and preservation of open space. For the last half century, they have served as an independent voice for the Bay and its ecosystems engaging in community-based to statewide campaigns that help educate everyone throughout the watershed to be more conscientious of how they are affecting the bay and its wildlife and to empower them to create a better future

# Schools in JSSF 2026

<b>Absegami High School</b>
<b>Academy of Allied Health and Science</b>
<b>Atlantic City High School</b>
<b>Atlantic County Institute of Technology</b>
<b>Biotechnology High School</b>
<b>Bishop McHugh Regional Catholic School</b>
<b>Chelsea Heights Elementary</b>
<b>Christian Brothers Academy</b>
<b>Eugene Tighe School</b>
<b>Folsom Elementary School</b>
<b>Freehold Township High School</b>
<b>Galloway Township Middle School</b>
<b>High Technology High School</b>
<b>Holmdel High School</b>
<b>home-hsu</b>
<b>Lacey Township High School</b>
<b>Manalapan High School</b>
<b>Manalapan-Englishtown Middle School</b>
<b>Marine Academy of Technology &amp; Environmental Sciences (MATES)</b>
<b>Marlboro High School</b>
<b>Marlboro Memorial Middle School</b>
<b>Matawan Regional HS</b>
<b>Ranney School</b>
<b>Rumson Fair Haven Regional High School</b>
<b>Smithville School</b>
<b>Sovereign Avenue School</b>
<b>Stanford Online High School</b>
<b>Texas Avenue School</b>
<b>The Marine Academy of Science and Technology (MAST-Sandy Hook)</b>
<b>Toms River High School East</b>
<b>Toms River High School North</b>

<b>Toms River High School South</b>
<b>Toms River Intermediate East</b>
<b>Toms River Intermediate North</b>
<b>Toms River Intermediate South</b>

# JSSF 2026 Judges and Affiliations

Rosanne Weiss	Atlantic Community College
Zainab Ahmed	Atlantic Cape Community College
Armen R. Amirian	Gemological Institute of America (GIA)
Dylan Bakley	Big brothers, big sisters
William C Beard	Federal Aviation Administration (FAA)
Marie A Behnke	(No Affiliation)
Henry Behnke, H	Self employed, engineer
Dymtro Berbasov	Stockton University
Marium Bhatti	Stockton University
Jatin Bhavsar	Amneal Pharmaceutical
Lawrence Boadi	Stockton University Alumni
Andrew T Bove	Atlantic Cape Community College
Cheryl D Browne	Brancardesigns
Karen Brundage-Johnson	Atlantic Cape Community College
Joseph F Burns	FAA Tech Center, retired
David Burrows	Atlantic Cape Community College
Lynn S Catterson, ESQ	American Association of University Women
Forest Clayton	Stile Education
Judith E Coburn	ACITech
Kevin Coopersmith	Atlantic Cape Community College
Gabriele H Coslop	ACITech
Jamie C Covello	State of New Jersey
Timothy J Cwik	Atlantic Cape Community College
Holly M Cyrus	IEEE
Gayle R Dabate	Federal Aviation Administration (FAA), retired
Lauren DiGiovanni	Atlantic Cape Community College
Joshua Faust	University of Delaware
Logan J Ferry	Scullville Vol., Fire Company #3/EMT Student (ACCC)
Andrew Genovese	Stockton University
Kathleen Ghanavati	Retired Science Teacher Educator/ Ocean City High School
Richard A Goldberg	Green Team Member and Master Gardener
Ro Goldberg, R.	Galloway Township Middle School
Kyle Gornick	
Garrison Gradel	Atlantic Cape Community College
Azeb A Hailu	NAVSUP WSS
Yater Henry	Stockton University
Sofia Irizarry	Stockton University
Shaileshbhai V Kaklotar	Amneal Pharmaceuticals Inc.
Alex Konkel	(No Affiliation)
Bhavinbhai G Lakhani	Project Controls Specialist at DACK Consulting Solutions, Inc
Scott M Larew	Woodard & Curran, Inc.
Michelle Lentz	Egg Harbor Township High School

Shanan Levin	Federal Aviation Administration (FAA)
Carrie Anne Lyons	New Jersey Water Environment Association (NJWEA)
Hari Prasad Malli Mothila	
Lauren Mayfield	Stockton University
Sirini Mandalapu	Federal Aviation Administration (FAA)
Brittany McLaughlin	Save Barnegat Bay
Debbie McClintock	Atlantic Regional Medical Center
Latoya Mcglone	Atlantic Cape Community College
David L Morlando	Retired
Gary Mueller	James Sassano Associates
Tejaswi Mulagada	Alphacord Media Group/SMPTE
Craig M Mulhern, Jr	Stockton University
Zack Mullock	Mayor of Cape May
Chris Nally	New Jersey Water Environment Association ( NJWEA)
James Neville	New Jersey Water Environment Association ( NJWEA)
John Nosti	Advanced Cosmetic and General Dentistry
Sadie Novak	State of New Jersey
Mark Palmer	Palmer Atlantic Properties, LLC
Angela Parkell	Teacher
Jigneshy Parmar	No affiliation
Amitkumar Patel, A	Amneal Pharmaceuticals, Inc.
Bharatkumar Patel, B	Registered Nurse UHNJ Level 1 Trauma Hospital
Bhaultkumar Patel, B. D.	(No Affiliation)
Prakashkumar Pate, PI	Pharmaceutical
Suhaskumar Patel,S	Amneal Pharmaceutical
Laureen Pavlis	Atlantic Cape Community College
Elizabeth Pollock	Stockton University
Joyce A Pratt	Stockton University
Madhu Punjabi	(No Affiliation)
Terri Reese	Terri Reese for NJ CD-2
Marc Richard	Stockton University
Francis Rigor	Federal Aviation Administration(FAA)
Stacey Rodenas	Galloway Township Ambulance Squad
Maureen Rowan	State of New Jersey
Carolyn P Rush	no affiliation
Brendan Santangelo	Camden County College
Christina G Savich	Atlantic Cape Community College
Kimberly A Scata	Duffy Law Group
Emily Schmidt	Education Consultant
Melanie Schroer	Stockton University
Vishal Shah	Pharmaceutical
Steve E Shenk	FAA Tech Center, retired
Chris Siracusa	Galloway Township Ambulance Squad
Debra Sommers	Retired
Kathleen Spaeth	Green Team Member and Master Gardener
Lorraine Suleiman	Atlantic County Democratic Committee
Michael Suleiman, M	Atlantic County Democratic Committee

Scott Summerill  
Sharath Sunkavalli  
Jacqui Tate  
Ron Tinsley  
Ann M Tinsley  
Joseph J Trout  
Naitik Verma  
James Wakeman  
Erin E Wannan  
Xiaoyu Wei  
Ida M West Jones  
Bayly Winder  
Karyn Wolfgram

ATEC  
No affiliation  
Atlantic County Democratic Committee  
Stockton University  
Atlantic City School District  
Stockton University  
Green Team Member and Master Gardener  
Comcast  
Penn Medicine  
Coriell Institute for Medical Services  
U.S. Navy  
Bayly Winder for Congress  
PSEG

# Jersey Shore Science Fair 2026

## Participants & Projects

# Delaware Valley Science Fair Eligibility

The following winners of the Jersey Shore Science Fair will be eligible to attend the Delaware Valley Science Fair (DVSF) **Tuesday, March 31st through Thursday, April 2nd:**

Delaware Valley Science Fair (DVSF)  
The Greater Philadelphia Expo Center  
at Oaks  
100 Station Ave  
Oaks, PA 19104 [www.dvsf.org](http://www.dvsf.org)

## The following awarded projects are eligible to attend DVSF:

### ***Juniors – 6-8 Grade***

1st and 2nd place only, all categories including teams

### ***Intermediate – 9-10 Grade***

1st, 2nd and 3rd place except Team category 1st place only

### ***Upper – 11-12 Grade***

1st, 2<sup>nd</sup>, and 3rd place except Team category 1st place only

***Set-up and event detail for the DVSF can be found on the JSSF webpage***

# JSSF 2026 Participating Projects

## Behavioral and Social Sciences - BSS

### Junior BSS

J BSS 3	Morgan	P	Kambouris	"Hue"man Memory Recall...Do Colors Really Affect Memory?
J BSS 4	Love		Ayannusi	Ready, Set, Go! The Effect of Predictive Cue on Reaction Time
J BSS 5	Levi		Elleman	The Truth About Lies: A Study of Non-Verbal Cues in Deception
J BSS 6	Owen		Sullivan	Does playing video games increase reaction time?
J BSS 7	Lilah		Gilligan	Memory Task: Boys Vs. Girls
J BSS 8	Mumtahina	S	Momo	The Bystander Effect
J BSS 9	Arissa		Nawal	Working Memory: Improvement by Chunking

### Intermediate BSS

				Mind-Pong: An EEG-AI Integrated Focus Detection and Feedback System for ADHD Attention Training
I BSS 1	Ryan		Hsu	The Effects of Milk Thistle and Gut Inflammation on the Behavior of Drosophila
I BSS 2	Jasmine		Ni	Effect of mouse sensitivity (400, 800, 1600 DPI) on aiming accuracy in a standardized computer targeting task.
I BSS 3	Kelsey		Chen	The Physiological and Emotional Response of People With Varying Degrees of Honesty in Prosocial Moral Dilemmas
I BSS 4	Shoshana	M	Howard	The relationship between Myers-Briggs Type Indicator and people's music preferences.
I BSS 5	Evangelos		Parameritis	The Relationship Between a High-Sugar Diet, Synthetic Food Dye Red 40, and Activity Levels in Drosophila melanogaster
I BSS 6	Zain	S	Voegborlo	Effect of various stress factors on the mass consumption of 15 Subject Founder Drosophila melanogaster populations
I BSS 7	Mehjabin		Majid	Can surrounding color improve the ability of visual memory?
I BSS 8	Omuwa		Izah	Media Influence on Cognitive Reflection and Confidence
I BSS 10	Eleazar		Annamdevula	Calibration Through the Dual-Process Theory
I BSS 11	Adit		Asnani	Temporal Myopia and Commitment Failure in Intertemporal Choice: Quasi-Hyperbolic Discounting

### Upper BSS

U BSS 2	Sonia		Tretina	Greater Sensory Intensity Associated with Classical Music
U BSS 3	Ayden		Campell	Analysis of Academic Motivation Among High Schools Students
U BSS 4	Daniel		Chang	Behavioral Analysis of Formulaic Language in Alzheimer's Disease Using Large Language Models
U BSS 5	Kealia		Smith	The Impact of Advanced Musical Training on Enhancing Secondary Language Learning
U BSS 6	Grace		Conte	The Effects of Nature Ambience on the Perceived Anxiety of Dental Patients
U BSS 7	Maggie		Fils-	
U BSS 7	Felicia		Aime	The Nature of Personality Types & Cognitive Function
U BSS 8	Qlngyi		Jin	The Correlation Between Weekday and Weekend Sleep Duration and Academic Performance Among High School Students
U BSS 8				The Correlation Between Life Satisfaction, Spirituality, and Religiosity in Adolescents
U BSS 10	Emma		Lutz	

## Biochemistry - BCH

### Junior BCH

J BCH 1	Weishan	Lutz	Out of the Foods Tested ,(Marshmallows, Cashews, and Croissants), which has the most Calories?
J BCH 2	Anuraag	Chandra	What Food Scrap Creates the Most Biogas?

### Intermediate BCH

I BCH 2	Neha	Selvadhurai	The Effect of Natural Additives on Catalase Activity Under Industrial Stress Conditions
I BCH 3	Maggie	Chen	Effects of UV-C light pretreatment of organic banana peel waste before <i>S. cerevisiae</i> fermentation on bioethanol yield
I BCH 4	Hairong	Wang	Affordable pH-Responsive Pulsatile Drug Delivery via a Novel Hydrogel-Gated External Reservoir for Infection-Triggered Chronic Wound Management
I BCH 5	Reese	Larew	Effects of Food-Grade Hydrocolloid Stabilizers on Model Invertebrate <i>D. magna</i>
I BCH 6	Lorena	C Nogueira	Comparison of the Additive Effectiveness in Electrolyte Conductivity in Sports Drinks
I BCH 8	Haoran	Hu	Insights into Trifluralin's Effects on Human and Invertebrate Cell Health
I BCH 9	Saanvi	Chandra	Residue-Level Graph Neural Network Prediction of Long-Range Allosteric Control Nodes in Human BACE1
I BCH 11	Shail	Gupta	Computational Screening of Phytochemicals from Four Global Medicinal Plants for Selective GPR139 Agonism via Molecular Docking and ADMET Analysis

### Upper BCH

U BCH 2	Rudraksh	Nair	Proteolysis Targeting Chimera (PROTAC)-Mediated Degradation of MNK1: A Novel Therapeutic Strategy for Glioma Treatment
U BCH 3	Sydney	Kiernan Weitzell-Sanchez	Heart rate variability as an indicator of sleep quality, fatigue, and autonomic nervous system readiness
U BCH 4	Kaitlyn	Sanchez	Investigating the Use of Lipids to Extract Microplastics from Water
U BCH 5	Jay	Patel	Modulating Glycation-Induced Arterial Stiffening Using a Biomaterial and Biological Modeling Approach
U BCH 6	Chloe	Wnek	Photo-Regulated Transdermal Drug Delivery System Synthesized from Marine Chitosan for Chronic Health Conditions
U BCH 7	Avani	Nair	The Effect of Cu Exposure on the Mitochondria of Cu Dysregulated and WT <i>C.elegans</i> and the Effectiveness of Quercetin as a Preventative Measure
U BCH 9	Aniketh	Ayyagari	"Luteolin-Induced Gene Expression Effects on Transcriptome in Microglia: RNA Microarray Analysis"
U BCH 10	Jay	Desai	DeepSynergy:Computational Modeling of Synergistic Drug–Target Network Interactions and Pharmacodynamic Responses in Precision Oncology

## Botany – BOT

### Junior BOT

J BOT 1	DEVANSH	GUPTA	Measuring How Light, Water, and Leaf Health Modulate Plant Electrical Signals
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J BOT 2	SAANVI		GUPTA	Does the color of light on plant leaves affect the plant's chlorophyll levels and growth?
J BOT 3	Sophia	R	Anderson	Analysis of Growth Rates in Grass With Different Fertilizer Types
J BOT 5	Divi		Dand	Plants on the Move! Creating a Phototropism Obstacle Course
J BOT 6	Arabella		Cristelo	Peroxide Power
J BOT 7	Declan		Stamelos	Do tomato seeds that spent time in space grow differently than conventional tomatoes?
J BOT 8	Lauren		Bush	How Does PH Affect Plant Growth?
J BOT 9	Bidita		Das	What do Plant Fertilizers Really do?

## Intermediate BOT

I BOT 1	Anish		Batra	The Effect of Color Temperature on the Stomatal Size of Cherry Belle Radish Leaves
I BOT 2	Shivam	N	Patel	The Structural Stability of Dwarf Grey Sugar Pea Plants When Decapitating the Stem at Different Times
I BOT 3	Alexandra		Kanterezhi-Gatto	Bioremediation with Invasive Asian Date Mussels used as Fertilizer to Enhance Absorption of Carbon Dioxide in Allium schoenoprasum
I BOT 4	Fares		Alkhier	Effects of Hypergravity on Taproot Mass and Leaf Area of Raphanus sativus
I BOT 5	Shreekrishna		Avhad	Effects of Bacillus subtilis Concentration on Drought Stress Tolerance in Brassica rapa
I BOT 6	Claire		Guo	Effects of the Foliar Application of Calcium on Chlorophyll Content Present in Lactuca sativa capitata
I BOT 7	Aaryan		Roy	THE EFFECTS OF MICROPLASTIC PARTICLES IN WATER ON THE GROWTH AND CROP OF RAPHANUS SATIVUS UNDER VARIED CONDITIONS
I BOT 8	Shane	A	Weiner	Comparing the Effects of Two Fertilizers on French Double Dwarf Marigold Growth

## Upper BOT

U BOT 1	Thomas	J	Tropiano	Determining minimum conditions for plant growth on Mars.
U BOT 2	Lillian	G	Boyd	Comparative Resilience of Freshwater and Marine Aquatic Macrophytes Under Simulated Stress Conditions
U BOT 3	Anurith	R	Kusunam	The Efficacy of Bacillus Subtilis in Promoting Growth of ABA-Deficient(CS156) and Wild-Type Arabidopsis Thaliana in Zinc-Contaminated Soil
U BOT 4	Amani		Sukkarieh	Effects of Visible Blue Light on Downy Mildew and Powdery Mildew Growth in Cucurbita pepo

## Chemistry - CHM

### Junior CHM

J CHM 2	Aaron	J	Patel	The Hidden Chemistry: How Environments Transform Water's pH
J CHM 3	Adam		Schulein	Does Temperature Affect a Magnet's Strength?
J CHM 4	Vedant		Srinivasan	Can we use discarded fruits and vegetables to generate electricity so we can upcycle them?
J CHM 5	Aathmika		Bala	How can Different Substances Affect the Freezing Point of Water?
J CHM 6	Pranav		Krishnan	How do acids affect the rate of corrosion and rust?
J CHM 7	Rithika	S	Mannem	How Does Temperature Affect Chemiluminescence Within a Glowstick?

J CHM 9	Jared	A	Dennis	Shockingly Strong: Comparing Electrolytes Through Conductivity
J CHM 10	Jairus		Moll	The effect of varying vinegar volumes on the height and time of fizz when mixed with a constant amount of baking powder
J CHM 11	Thomas	J	Keating	Soft vs. Hard: How Does the Annealing Process Affect Different Metals?
J CHM 12	Emma	S	Abdrabouh	Polish On Polish Off...What's the Best Removal Method for Nail Polish Stains?

### Intermediate CHM

I CHM 1	Sophia		Huang	Tuning Hydrogel Properties For Soft Robotics: Balancing Conductivity and Flexibility using Graphite Powder
I CHM 2	Michael		Kuhlsen	An Analysis of the Optimal Amounts of Catalyst and Oxidant Needed for the Photo Fenton Reaction in the Removal of Mono Azo Dyes
I CHM 3	Tia	A	Thomas	Combining Carbonate Additions and Mineral Substrates to Support Oyster Calcification under Ocean Acidification
I CHM 4	Emma		Ho	Effect of Increasing Electrolyte Concentrations on the Efficiency of Magnesium Hydroxide

### Upper CHM

U CHM 1	Melanie	A	Cantor	Using Machine Learning to Predict the Formation of Metal-Organic Frameworks (MOFs)
U CHM 2	Acim		Savich	Effectiveness of PFAS Removal in Well and Surface Water using a Low-Cost Layered Filtration Media
U CHM 3	Laila	F	Caramanica	Novel Methodology for Detecting Microplastic Presence in Benthic Scavenger Organisms
U CHM 4	Zachary	S	Ciappa	Synthesis of Biopolymer Hydrogels Incorporated with Invasive Plant Polyphenols for Biomaterial Applications
U CHM 5	Joel		Rodriguez	Investigating the Stability of Conductive Polymer Composites for Circuit Applications.
U CHM 7	Dia		Avalur	Topological Engineering of Ionically Crosslinked Hydrogel Matrices for Localized Drug Deployment Following Pediatric Tumor Resection

## Computer - COM

### Junior COM

J COM 1	Evan		Roth	How can different sensors affect the accuracy of a search robot in tight spaces?
J COM 2	Saveer		Jambhekar	How accurate is a fall detector coded with pitch and roll value detection?
J COM 3	Lucas	J	Lowery	Does a Person's Age Affect their Ability to Differentiate an AI from a Human?

### Intermediate COM

I COM 1	Dhruv		Banerjee	Algorithmic Understanding and Detection of Inequality in Training
I COM 2	Marcus	L	Zhang	A Study of the Neural Network Reduction Through the Partial Enforcement of Tared Weights
I COM 3	Kanishk		Prakash	Using Machine Learning to Predict Pediatric Asthma ER Visits Based on Pollution Exposure in Urban Areas
I COM 4	Ethan		Yip	Accuracy of depression detection on DepRoBERTa tuned on aggregated data by user-level groupings
I COM 5	Krupam	K	Patel	South Barnegat Bay Onshore Wind Model Prediction with the Use of a Long Short-Term Memory Neural Network
I COM 7	Divya		Chakraborty	SynBio-DL: Modeling Host-Specific Codon Perturbation Landscapes and Translational Stress Using Deep Learning

I COM 11	John	Stetz	The effect 3D-CNN depth on Alzheimer's Disease detection
I COM 12	Pravar	Gollamudi	SolExpose: Solidity Smart Contract Vulnerability Finder

## Upper COM

U COM 2	Xinge	Ye	Application to Combat Societal Isolation in International Students
U COM 3	Reese Kaia	O Fernandez	Using Machine Learning To Examine Chest CT Scans From Lung Cancer Patients And Create Visualizations
U COM 4	Jophy	Lin	SepsisGuard: An Uncertainty-Aware Early Warning System for Reliable Sepsis Prediction
U COM 5	Noah	C Eichert	Parametric Real-time Audio Preprocessing in Encrypted VoIP for Traffic Analysis Resistance and Speech Quality

## Consumer Science - CSC

### Junior CSC

J CSC 1	Audrina	Demma	Comparing the effect of different egg substitutes on the elasticity of vegan cupcakes
J CSC 2	Swarnim	Mulik	Does an orange have more electrolytes than a sports drink?
J CSC 3	Finnegan	Peters	Wooden Pencil vs. Mechanical Pencil: Which is Better? Which Biodegradable Hydrogels Help Plants Grow Taller? Store-bought vs. Homemade
J CSC 4	Kavya	Patel	Which water bottle brand keeps water warm the longest?
J CSC 5	Oscar	Castillo	Which brand of toothpaste kills the most bacteria?
J CSC 6	Colbie	Krick	Paste Makes Perfect
J CSC 7	Brennan	Corcoran	

## Earth and Space Science - ESS

### Junior ESS

J ESS 1	Advay	Mittal	Do Warmer Seas Cause Stronger Hurricanes?
J ESS2	Ishan	Patel	Starry Sight vs. City Light...How Light Pollution Affects the Night Sky
J ESS3	Noah	Lessig	Can Mycorrhizal Fungi Improve The Growth of Radish Microgreens in Martian Soil? Unveiling the Stars: Observation & Spectral Analysis of Stars Using a Homemade Spectroscope
J ESS 4	Krish	Patel	Shine Bright! Harnessing the Energy of the Sun
J ESS 5	Ethan	Miller	

### Intermediate ESS

I ESS 1	Scott	Young	Climatology of the Pacific Decadal Oscillation–Indian Ocean Dipole Relationship
I ESS2	Alexandra	Kuzloski	Impacts of the Decomposition of Cotton made with Natural Dyes vs. Synthetic Dyes on Soil Quality
I ESS3	Owen	Soheily	Comparative Soil Analysis of Internal, Peripheral and External Zones in the New Jersey Pinelands
I ESS 4	Isheeta	Rastogi	Comparing Different Filtration Techniques For Microplastic Removal
I ESS 5	Averyl	Xu	Accretion Flow Influence on the Spectra of X-Ray Emission from Neutron Stars

### Upper ESS

U ESS 1	Maya	Baireddy	Predictive Models of Solar Flares Using Machine Learning on Solar Magnetogram and X-ray Data
U ESS 2	Arjun	Arunprasad	Estimating Quasar Redshifts from Optical, Infrared, and X-Ray Flux Measurements with Machine Learning
U ESS3	Gavin	Brunelli	Martian Regolith Testing: Comparing the Growth of Sprouts in JEZ-1 and MGS-1
U ESS 4	Rahul	Gupta	KesslerNet: Machine Learning Orbital Perturbations for Kessler Syndrome Prediction

## Engineering - ENG

### Junior ENG

J ENG 1	Takshil	Patel	Which Type Of A Model Bridge Can Hold The Most Weight ?
J ENG 2	Ishani	Patel	Which Irrigation System Creates The Tallest Plant With The Longest Roots?

### Intermediate ENG

I ENG 1	Nicholas	Gilbert	How Stretching Propellers can Improve Drone Efficiency While Reducing Drawbacks of Traditional, Large Propellers.
I ENG 2	Melanie	Haug	Electromagnetic Generators Powered by Footsteps
I ENG 3	Tyler	Torres	Physics-Informed AI Optimization for Autonomous Reforestation
I ENG 4	Awin	Budhiraja	Comparative Analysis of 3D-Printed Materials for Cost-Effective and Durable Upper-Limb Prosthetics
I ENG 5	Medaline	Jacobs	Geometric Analysis of Truss Bridge Performance Using Structural Monitoring

### Upper ENG

U ENG 2	Tyler	Steinbrunn	Avian Anti-Spread: Combating Avian Diseases at the Source
U ENG 3	Samantha	Capili	Investigating Asphalt Road Temperature Differentials for Electrical Production via Thermoelectric Generators (Continued)
U ENG 4	Brian	Eliezer	Development of a Graphene-Based Ink from Pencil Graphite
U ENG 5	Hridaya	Bala	How accurately can a neuromorphic circuit replicate biological neuron firing?
U ENG 6	Isabella	Morgan	Phragmites-Derived Scaffold with Chitosan Nanoparticles in a Simulated DVT Detection Model for Stroke Prevention and Skeletal Muscle Regeneration
U ENG 7	Isabella	Nunez	Powering Electric Vehicle charging stations using renewable solar energy with integrated battery storage
U ENG 8	Raphael	Oliveira	Coconut Byproducts As Water Filtration Media
U ENG 9	Kiran	Kanuga	Invalidating the '078 Patent and Redesigning its Pressure Relieving Lid
U ENG 10	Morireoluwa	Alao	Sensor-Integrated Soft Robotic Glove for Automatically Adjustable Grip Strength
U ENG 11	Kevin	Perez-Morales	Low-Cost Electrochemical Biosensor for Detecting Disease-Linked Changes in Biofluids

## Environmental Science – ENV

### Junior ENV

J ENV 1	Veda	Kuchibatla	How do color and parabolic reflectors of a solar powered desalinator affect its efficiency at removing salt from water?
J ENV 2	Anay	Patel	How can humans use ferrofluid nanomagnetic particle technology to clean oil spills and help save marine life?
J ENV 3	Ayaan	Patel	Can Biodegradable Hydrogels Help Conserve Water In Farming
J ENV 4	Trevor	Chong	What is the optimal concentration of ferrofluids to remove microplastics?
J ENV 5	Gavin	Ronau	Sea Level Rise Related to Thermal Expansion
J ENV 6	Talia	Salomone	Will the growing DIY social media trend of using landscape glue to secure mulch and gravel in gardens and walkways increase runoff in suburban areas?

### Intermediate ENV

I ENV 1	Angela	Lin	Impact of Arrowroot Starch and Heat Treatment on the Tensile
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## Strength of Bioplastics

I ENV 2	Mallory	Brennan	Evaluating Repurposed Textile Waste as Bio-adsorbers to Suppress Harmful Algal Bloom Growth
I ENV 3	Giuliana	Demma	Watershed Health and Human Influence: Can we augment the ecosystem's natural ways to rebalance itself? Cost-effective Ways to Achieve Water Purification Using Different
I ENV 4	Harsh	Patel	Chemical Combinations
I ENV 5	Maetham	Hassam	The Effects of Microplastic Pollution on the Rate of Regeneration for Freshwater Planaria
I ENV 6	Daniel	Lutz	The Impact of Downstream Distance from the Swimming River Reservoir Spillway on Sediment, Phosphate, and Nitrate Levels
I ENV 7	Rose	Marinaccio	The Effect of the Chemical Glyphosate on the Growth of Chlamydomonas (Green Algae) and Lemna Minor (Duckweed) Within One Tank
I ENV 8	Bryce	Judge	The Effects of Varying Soil Mediums on Forest Fire Potency and Erosion
I ENV 9	Gillian	Alcid	A Multi-Method Analysis of Nitrate-Nitrogen Dynamics in a Compromised Estuary System Across Urbanized and Protected Areas in Ocean County, NJ
I ENV 10	Julia	Wade	Clam Shell Aggregate Within Artificial Reefs and its Impact on Water Chemistry
I ENV 11	Briyana	Suthar	The Impact of Silicon Dioxide Nanoparticles on Dugesia tigrine Regeneration
I ENV 12	Isaac	Zurkovsky	Planarian Reaction Time to Light After Regeneration Under Influence of Polystyrene Microplastics
I ENV 13	Audrey	DesJardin	Causes and Effects of Mylar Balloon Pollution
I ENV 14	Rishan	Pawar	A Spatiotemporal AI Framework for the Intelligent Forecasting of Tropospheric Ozone and Multi-Variable Pollutants
I ENV 15	Jillian	Cox	Are Bioplastic Bags just as effective as Petroleum Based Plastic Bags?

## Upper ENVL

U ENV 1	Jackson	Mierop	Affect of Urbanization on Migrating Shorebirds
U ENV 2	Summer	Sprague	Mapping Environmental Hotspots of Tetracycline Resistance Genes in Soil through Integrated Molecular and Soil Property Analysis
U ENV 3	Joaquin	Bautista	Skate Egg Case Abundance, Distribution, and Diversity in relation to Monitoring Population Dynamics
U ENV 4	Robert	Pedersen	Forecasting Harbor Seal ( <i>Phoca vitulina</i> ) Haulout Behavior Based on Predicted Weather Conditions and other Abiotic Factors at Sandy Hook
U ENV 5	Jonathan	Williams	Macroinvertebrates as Indicators: Evaluating Effects of Golf Courses on New Jersey Freshwater Stream Ecosystems
U ENV 6	Annabel	Zheng	Using Environmental DNA (eDNA) Analysis to Monitor Marine Fish Populations
U ENV 7	Leyna	Bohlayer	Is The Hawaii 104 Act Effective?
U ENV 8	Siddhi	Omesh	Sunscreen Toxicity in <i>C. elegans</i> and Counteraction by Activated Carbon as a Model for Sunscreen Runoff Effects on Aquatic Life
U ENV 9	Bhavya	Patel	Historical Analysis of Thermal Tolerance in Corn and Implications for Climate Change Vulnerability

U ENV 10	Bobby	Kapoor	A Comparative Economic Assessment of the PTC and ITC for a 5 MW Onshore Wind Turbine Across Major U.S. Grid Regions
U ENV 11	Makenzie	Langan	Environmental Impact of Fertilizers: Is Slow-Release Actually Better?
U ENV 12	Quinlan	Miller	" Every Drop Counts: Using Intelligent Moisture Sensing to Conserve Water."

## Mathematics - MAT

### Junior MAT

J MAT 1	Kavya	Patel	Origami - The Math Behind the Art
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### Intermediate MAT

I MAT 1	James	Badishkanian	From One Cell to Chaos: Measuring Sensitivity to Single-Cell Changes in One-Dimensional Cellular Automata
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### Upper MAT

U MAT 1	Frederick	Giller	Correlation and Quantitative Finance DEVELOPING A COMPUTER SIMULATION FOR ESTIMATING LOWEST-ENERGY VSEPR GEOMETRIES USING THE THOMSON PROBLEM
U MAT 2	Jeffrey	Ni	Real-Time Water Sediment Detection Using an Arduino Sensor System and Predictive Mathematical Modeling
U MAT 3	Aumrit	Khanwani	

## Medicine and Health - MED

### Junior MED

J MED 1	Dina	Abdelaal	Which Energy Drinks Cause The Most Tooth Decay?
J MED 2	Ashtyn	Wardwell	Does doing 10 minutes of yoga twice a week increase flexibility? Can a temperature regulated cast efficiently bring down and rise the body temperate of the limb in the cast?
J MED 3	Elliana	Madjeski	
J MED 4	Delaney	Benckert	Straightening the Curve: The Force Behind a Boston Brace Rebuilding The Brain : Constructing Neural Grafts From Stem Cell Derived Neurons
J MED 5	Musa	Morshed	
J MED 6	Minsa	Ali	tummy ache
J MED 7	Taiyyaba	Ali	Stain Game: The Impact of Daily Drinks on Tooth Discoloration
J MED 8	Safia	Zakirova	Eating and Running: Does it Help or Hurt?
J MED 9	Maeve	OBrien	Small Hearts, Strong Beats

### Immediate MED

I MED 1	Aaron	Okon	The Effect of Aspartame on the Speed of Reactionary Motor skills within Drosophila Melanogaster models with Spinocerebellar Ataxia Type 1
I MED 2	Arisha	Islam	The Effects of Polyethylene Terephthalate and Polyvinyl Chloride Consumption on the Fecundity of Drosophila Melanogaster with PCOS Symptom Exhibition
I MED 5	Abbi	Kotikovski	The Effect of Folic Acid with Ergothioneine Exposure on Epidermal Human Skin Cell Migration
I MED 6	Bianca	Bender- Joslin	The Use of Collagen Types I & III in Planarians: Muscle, Organ, and Skin Growth

I MED 7	Christian	McBride	An Analysis of the Effect of Diphenhydramine on the Rate of Negative Geotaxis in <i>Drosophila melanogaster</i> with Amyotrophic Lateral Sclerosis
I MED 8	Jiang	Siuming	Therapeutic Effects of Acoustic and Ultrasonic Sound Waves on Proliferation of Adult Stem Cells in Planarians
I MED 9	Iyanuoluwa	Ayannusi	Effective Integration of FES and Haptic Feedback Systems in Muscular Dystrophy and Deficits Through the Application of Bio-Medical Engineering
I MED 10	Aanya	Desai	The Backpack Effect: How Much Weight Is Too Much?
I MED 11	Aneel	Pitchumoni	The Effects of Curcumin on SW480 Colorectal Cancer Cells
I MED 12	Yoog	Patel	Orphan GPCR GPR153 Identified as a Novel Predictor of Temozolomide Resistance Through MGMT Correlation in Glioblastoma
<b>Upper MED</b>			
U MED 1	Annaelle	Petit-Homme	Stress Management as a Method of Menstrual Pain Reduction in Adolescent Girls
U MED 2	Michael	Engle	Effect of $\gamma$ -Hydroxybutyrate on Olfactory Associative Memory in <i>Caenorhabditis elegans</i>
U MED 3	Aarush	Shah	AURA-AI: Agentic Understanding and Reasoning Agent for Rare Disease Diagnosis
U MED 5	Rhea	Dudhwala	U.P.L.I.F.T.: Utilizing an Electrophysiological Orthosis in Hemiplegic Foot Drop
U MED 6	Daniella	Walkowicz	Impact of Genetic Mutations on Mortality Rate in Breast Cancer Patients
U MED 7	Olvia	Schwartz	Comparing Immune-Regulatory Proteins Across Species To Predict Xenotransplantation Compatibility
U MED 8	Reecha	Shah	Neuronal Apoptosis Secondary to Glutamate Spillover and Mitochondrial Rescue by Resveratrol in <i>C. elegans</i> Paradigms
U MED 9	Silvia	Clemens	Hand sanitizer effectiveness at eliminating bacteria on hands with visible oil on them compared to soap and water
U MED 10	Yeseo	Jeon	The Effect of Natural Polyphenol Resveratrol on the Cognitive Behavior of <i>C.elegans</i> CL2355, a Model of Alzheimer's Disease
U MED 11	Parthav	Kartik	Early Prediction of Chronic Kidney Disease in Adults with Type 1 Diabetes: A Machine Learning vs Statistical Regression Approach
U MED 12	Shreena	Desai	Early Protein Adsorption Dynamics Predict Long-Term Biofouling on Biomedical Polymer Surfaces
U MED 13	Tatianna	Febles-Perez	Advancing Transplantation: A Comparison of Scaffolds

## Microbiology - MIC

### Junior MIC

J MIC 1	Nora	O'Donnell	Which water filter removes microorganisms the best?
J MIC 2	Lucy	Baerman	Does the amount of preservatives in bread affect how fast mold grows?
J MIC 3	Lucas	D'Alessandris	How do different types of light affect bacterial growth?
J MIC 4	Jaina	Mehta	Tea-rific Results: Do Different Types of Teas Affect SCOBY Growth Rate?

### Intermediate MIC

I MIC 1	Justin	Deng	Evaluating Effectiveness of <i>Flos caryophylli</i> and <i>Herba menthae haplocalycis</i> Against Viability of <i>Corynebacterium xerosis</i>
I MIC 2	Rigel	Patel	pH Effects on Biofilms under Antibiotic-Natural Antimicrobial Combinations
I MIC 3	Katherine	Cassidy	Examination of Bacterial Presence in Varying Water Bottle Types
I MIC 4	Ahaana	Budhiraja	Gut Microbiome Composition Analysis in Colorectal Cancer vs. Ulcerative Colitis
I MIC 5	Luke	Audet	Bacteria Growth at LTHS
I MIC 6	Liam	Richter	The Effect of Fertilizer and Rising Temperature on the Microbiome of Marine Habitats.

## Upper MIC

U MIC 1	Rianna	Mitra	Effect of in vitro methods on infectivity of bumble bee gut pathogen
U MIC 3	Surya	Srinivasan	Simulating Gut Microbiome Imbalance: How Glucose Alters Bacterial Competition in Diabetes
U MIC 4	Maggie	Elsherif	What's on the Menu? Exploring the Nutritional Ecology of Ants
U MIC 5	Genesis	DaSilva	Probiotic Survival in Simulated Pediatric Gastric Conditions and Relevance to the Autism Gut Microbiome
U MIC 6	Anna	Birchler	Effects of Ultra- Processed Food on the Human Gut Microbiome
U MIC 7	Julia	Mason	Effects of Acetic Acid, Chlorophyll a, and Red Light Therapy on Simulated Keratinocytes of Systemic Lupus Erythematosus and Associated <i>S. epidermidis</i>

## Physics - PHY

### Junior PHY

J PHY1	Vidisha	Patel	Which marble makes the farthest distance when launched by a catapult?
J PHY 2	Aryamann	Singh	Does the use of reflectors and different angles affect the solar panel electricity output?
J PHY 3	Anurag	Anapindi	Can another fluid other than the "ideal fluid" work for demonstrating Bernoulli's Principle?
J PHY 4	Anika	Roy	How do different surfaces affect the peak height of a bouncing ball?
J PHY 5	Manav	Surana	How Does Color Affect Heating by Absorption of Light?
J PHY 6	Anjan	Allampudi	Does The Change in Wind-Turbine Blades Help Produce Energy That Can Lift an Object?
J PHY 7	Pax	Perono	How Does Mass Affect the Speed of a Rolling Can?
J PHY 8	Ace Instin	Comintan	Solar Car Ran Across Surfaces
J PHY 9	Alessandra	Rilli	What is the most beneficial liquid for Orbeez to grow in?
J PHY 10	Alister	Coyle	The Effects of Starting Height on Energy loss from Heat
J PHY 11	Graham	Miller	Which popsicle-stick structure can support the most weight?
J PHY 12	Jack	Nagle	Bank Shot Vs. Regular Shot
J PHY 13	Nirvaan	Ashish	Does the amount of water in a cup affect how images appear to bend?
J PHY 14	Joseph	Cutter	Hot Wheel Showdown: What Material Stops a Car Best?
J PHY 15	Aarav	Varia	Element 119: Theory or Future Reality?

### Intermediate PHY

I PHY 1	Liam	Marshall	Analyzing the Soundproofing Qualities of Different Material
I PHY 2	Aiden	Moya	Identifying The Dominant Factor In The Degradation of Capacity In Nickel Metal Hydride Batteries
I PHY 4	Jaxon	Gazia	Chasing the Butterfly: The Double Pendulum's Sensitivity to Initial Conditions and Corresponding Chaos
I PHY 5	Eric	Guo	Advancing Scalable Quantum Algorithms for Simulating Multi-Qubit Systems with Colored Noise

### Upper PHY

U PHY1	Alex	Oh	Topological Quantum Materials for Waste Heat Harvesting
U PHY 2	David	Pevzner	The Breakdown of Naive Bootstrap Error Estimates in Metropolis Lattice Gauge Theory: an Analysis of Autocorrelation
U PHY 3	Axl	Perono	Utilizing Electrospinning to Develop a Collagen–Chitosan Nanofiber Scaffold for Peripheral Nerve Regeneration

U PHY 4	Ishita	Varia	Evaluating Pulse Oximeter Reliability Under Motion: A Quantitative Signal-to-Noise and Variability Analysis
U PHY 5	Archith	Karthik	Analysing Which Size Ball Bearing Will Produce the Least Amount of Friction on an Object Rolled on Them
U PHY 6	Melia	Lange	The Role of Arterial Plaque in Hypertension and Blood Flow Dynamics
U PHY 7	Landon	Cline	The Power of r <sup>4</sup> : Applying Poiseuille's Law to Albuterol-Induced Bronchodilation

## Zoology - ZOO

### Junior ZOO

J ZOO 1	Ismari	Paguada	The A"MAZE"ING Race...Will Brownie Find His Way?
J ZOO 2	Michael	Denisi	Fido vs. Fluffy: Comparing How Quickly Cats & Dogs Respond to Rewards

### Intermediate ZOO

I ZOO 1	Alex	Lee	The Effects of Curcumin and Riboflavin in Combination with Environmental Conditions on the Lifespan of Male Drosophila melanogaster.
I ZOO 2	Lillian	Haverty	The Impacts of Raskol on Drosophila Phototaxis when Disrupted
I ZOO 3	Jack	Pellegrini	Effects of Glucose on Memory Retention in Different Regenerating Planarian Body Segments
I ZOO 4	Lily	Docs	Analysis of Blue Crab Yield between Different Placements of Bycatch Reduction Devices
I ZOO 5	Isabella	Cellini-Winters	Study of the Foraging Behaviors of the Blue Crab in Submerged Aquatic Vegetation

### Upper ZOO

U ZOO 1	Cassara	Yannarelli	The Effect of Vitamin B12 Conditioning on C. elegans Avoidance Response
U ZOO 2	Skylar	Ignatowicz	The Effect of Ocean Acidification on Atlantic Surf Clams' Filtration Rate
U ZOO 3	Layla	Greenleaf	Population Assessment of Seals at Sandy Hook Over a 3 Year Period
U ZOO 4	Grace	Hilliard	Influence of Environmental Factors on the Migratory Distribution of Black Sea Bass (Centropristis striata) Along the Atlantic Coast
U ZOO 5	Claire	Haughian	The effects of harvesting on the Sex Ratio of Horseshoe Crabs Populations
U ZOO 6	Lucas	Brinster	Metabolic Modulation of Piwi-Mediated Germline Stem Cell Maintenance by Acetyl-L-Carnitine in Drosophila
U ZOO 7	Mia	Missig	The Environmental Repercussions of Elephants in Captivity and the Differences Between Captivity and the Wild
U ZOO 8	Violet	Fischer	Evaluation of Sodium Dodecylbenzenesulfonate Exposure on the Locomotion and Immune Response of Nassarius obsoletus
U ZOO 9	Selena	Wang	Protective Effects of Vitamin C and E on Silver Nanoparticle-Induced Neurotoxicity in C. elegans
U ZOO 10	Hayden	Lam	The Effect of Vitamin B12 Conditioning on C. elegans Avoidance Response
U ZOO 11	Isabel	Kopsaftis	Detecting Bay Nettles Using Environmental DNA in an Altered Estuarine System

## Team Project - TMP

### Junior TMP

J TMP 2	Parinitha sri	Pati	Nature's Solution for Microplastics
J TMP 3	Alliyana	Rios-Ortiz	How Well Do You Know Your Other Half? An In-Depth Look at Twin Telepathy
J TMP 4	Mollea	Glover	What Brand of Sunscreen is the most Resistant to UV Rays
J TMP 5	Yariza	Hossein	Which natural fertilizer boosts plant growth the most?
J TMP 6	Rashida	Raima	Bright Ideas, Juicy Results
J TMP 8	Fushrat	Subat	How does fluid type affect shock dampening in an RC car suspension system?

## Intermediate TMP

I TMP 2	Stephanie	Sang	Design of an early detection system for food spoilage based on a low-cost gas sensor
I TMP 3	Bener	Dulger	ShellShield: A Low-Cost, Calcium Carbonate Derived Paint Coating Application for Reducing High Temperatures in Low Income Neighborhoods
I TMP 4	Maya	Domadia	How DNA in UV light sensitive yeast culture is affected by ultraviolet light when exposed for different periods of time.

## Upper TMP

U TMP 1	Sienna	Kay	The Effect of Different Soils on the Growth Rate of Spider Plants
U TMP 2	Aden	Rella	Analysis of Water and Soil Quality in a Coastal Bioswale and Adjacent Drainage Basins
U TMP 3	JadieIn	Chen	The Role of Thiamine, Biotin, and Folic Acid in Modulating Piwi?Dependent Germline Stem Cell Fate in Drosophila melanogaster
U TMP 4	Avery	Guild	Estimating Abundance and Movement Patterns of Coastal Elasmobranchs Through Mark-Recapture Modeling
U TMP 5	Eli	Levin	Hydrological Data Recording Apparatus (HYDRA)
U TMP 6	Lorelei	Gaus	Effects of Resveratrol and CoQ10 on Ovary Development Across Piwi-mutated Variants of Drosophila melanogaster



*In 2026 the JSSF is paperless, please use your tablet or  
smartphone to view the booklet*