

Delaware Valley Science Fairs 2020

72nd Delaware Valley Science Fair (A)

Sponsored By DVSF

Exhibitor	Exhibit	School & Sponsor	
Behavior & Social Sciences			
A0103	Lauren Bradley	<i>Unconscious Decisions</i>	Bishop Shanahan High School Cheryl Bradley
A0105	Daneyah Claitt	<i>The Distracted Mind</i>	School of the Future Zachary Minken
A0106	Tara Forde	<i>Can Violent Sports Make a Person More Violent in Nature?</i>	Bishop Shanahan High School Laurie Forde
A0107	Adam Maman	<i>Assessing the Efficacy of 3D-Printed Devices on Altering Human Sentiment</i>	Jack M. Barrack Hebrew Academy Arthur Maiman
A0109	Marino Bubba	<i>Money Matters: The Effects of Economic Status on the Political Ideologies of Bangor Area School District Residents</i>	Bangor Area High School Robert Hachtman
Biochemistry			
A0201	Aleena Alex	<i>Novel Target Against CARM1-high HGSOC Cells</i>	Northeast High School James Finely
A0202	Samantha Zanine	<i>Potential Protein Biomarkers in Hepatocellular Carcinoma Cells and Exosomes</i>	Central Bucks High School- West Mark Hayden
A0203	Claudia Zhang	<i>The Use of Multiplexed Proteomic Approaches to Drive the Design of Personalized Cancer Vaccines</i>	Holmdel High School Josephine Blaha
A0204	Michael Bahner	<i>Opioids: Finding Signs of Reduced Drawbacks</i>	Central Bucks High School- West Mark Hayden
Botany			
A0301	Isabella Onofrietti	<i>Chlorella and Aloe Vera Plant Gel Effects on Early Childhood Caries</i>	Toms River High School North Christine Girtain
A0302	Kailey Matthews	<i>Sediment Accumulation and Resultant Bedforms around <i>Ammophila breviligulata</i> of Varying Tillered Densities</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
Chemistry			
A0401	Vrishin Patel	<i>Bioplastic Using Chitosan Extracted from Shrimp Shells</i>	Holmdel High School Megan Cantwell
A0402	Evan Wang	<i>Investigating the Effects of Cross-linkers in Flow-Assisted Assembly of Nanocellulose Materials via Rheo-optical Techniques</i>	Unionville High School Cynthia Zhao
A0403	Rutuja Kulkarni	<i>Developing a Transdermal Patch for Sustained Drug Delivery of Tofacitinib to Treat Rheumatoid Arthritis</i>	Central Bucks High School- West Mark Hayden
A0404	Erin Murphey	<i>Desalination of Saltwater using Carbon Electrodes for Electrodialysis</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek

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Exhibitor	Exhibit	School & Sponsor	
Computer			
A0501	Gabriella Huegel	<i>Creating an Efficient Interface for Consumers to Determine the Most Environmentally Friendly Fast Food Option</i>	Cherry Hill High School West Brian Grillo
A0502	Dylan Sheils	<i>Modernizing the Parallel Bus with Fiber Optics</i>	Council Rock High School- North Stacey Gould
A0503	Luke Finley	<i>Can a Robot Learn?</i>	Upper Darby High School Roseann Burns
A0505	Marshall Miller	<i>A Sixth Sense: Detecting Invisible Bacteria with Artificial Intelligence</i>	Central Bucks High School- West Mark Hayden
A0506	Eda Dervishi	<i>Reduce, Reuse, Recognize</i>	Central High School Robert Herbstritt
A0507	Alissa Amchentseva	<i>Fishious Render: The Seining Prediction Model</i>	The Marine Academy of Science and Technology (MAST) Samantha Moorzitz
A0508	Justin Zhang	<i>An Algorithmic Approach Towards Matching Document Word Usage and Sentence Structure to Corresponding Historical Time Frame</i>	Holmdel High School Josephine Blaha
A0509	Sofiya Lysenko	<i>Non-Invasive Brain Computer Communication with DNA Nano Robotics</i>	Abington Junior High School William Anderson
A0510	Neil Deshmukh	<i>An adaptive, low-cost device for automated offline medical analysis utilizing interpretable neural networks with reinforcement learning optimization</i>	Moravian Academy Gabriella Dee
Earth & Space Sciences			
A0601	Joyce Mai	<i>Climate Change on Termite-Fishing Behavior From Chimpanzees</i>	Central High School Robert Herbstritt
A0602	Ashmitha Sivakumar	<i>Biofuel from Cellulosic Biomass</i>	Methacton High School Robert Helm
A0603	Miti Patel	<i>Determining the Diameter of Earth's Core Using Seismic Waves Around the Globe</i>	Methacton High School Robert Helm
A0604	Amy Fullington	<i>Soil Quality at Cedar Bonnet Island: Analysis of Various Soil Parameters in the Edwin B. Forsythe Wildlife Refuge</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek

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Engineering		
A0701	Christopher Gerhart <i>Fueling the Future</i>	Souderton Area High School Karen Wolfe
A0702	Daniel Tobengauz <i>Proximity Sensor-Based Inflatable Wrist Brace Design</i>	Holmdel High School Josephine Blaha
A0703	Michael Kalman <i>Testing the Viability of 3D Printing Using a Portland Cement and Silica Sand Blend as a Print Medium</i>	Jack M. Barrack Hebrew Academy Arthur Maiman
A0704	Sophia Shapiro <i>To Be Alternating or To Be Direct: Examining Energy Loss in the Conversion of DC Power Transmission</i>	Jack M. Barrack Hebrew Academy Alexander Diehm
A0705	Jasmine Zhang <i>Controlling a 3D Printed Prosthetic Through Muscle Activity</i>	Council Rock High School- North Terese Grateful
A0706	Arushi Tiwari <i>Energy Harvesting Using Piezoelectricity in Moving Automobiles</i>	Methacton High School Robert Helm
A0708	Shane Warner <i>Get Your Power Out of the Gutter</i>	Father Judge High School Joy Kots
Environmental		
A0801	Shannon Baker <i>Are There Microfibers in Bottled Water?</i>	Bishop Shanahan High School Stefanie Baker
A0802	Ethan Daguian <i>Does Money Buy Healthiness?</i>	Central High School Robert Herbstritt
A0803	Laura-Frances Taylor <i>Micro-plastics: Behind the Seams</i>	G.W Carver Engineering and Science Lisa Franchetti
A0804	Eric McGivney <i>Sediment Accumulation of <i>Ammophila breviligulata</i> Across Varying Tiller Densities</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
A0805	Shreya Patil <i>Isolating Lactic Acid from Toxic Whey to Make Biodegradable Plastics</i>	Methacton High School Robert Helm
A0806	Srikar Yelamarthy <i>Bioremediation of Nitrogen Pollution Using <i>Pseudomonas aeruginosa</i></i>	Central Bucks High School- South Mark Hayden
A0807	Abigail Foytlin <i>The Comparison of Aquaponic <i>Lemna Minor</i> to Commercial Supplements for Potassium, Nitrogen, Phosphorus, pH and Runoff Values</i>	Toms River High School South Christine Girtain

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Mathematics		
A0902	Francis Peng <i>Derivation and Implementation of Unique Combinatorial Identities</i>	Central Bucks High School- West Mark Hayden
A0904	Rebecca Mastrola <i>An Analysis of Kepler Mission Data: Planetary and Stellar Properties Within the Milky Way</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
A0905	Pranav Garimidi <i>Utilizing Leximin Orderings to Create Fair Allocations</i>	Conestoga High School Vasilis Gkatzelis
A0907	Aidan Choo <i>Analyzing The Effect of Time Pressure and Constraints on Chess Performance</i>	Holmdel High School Megan Cantwell
A0908	Stefania Schoen <i>Using a computer to teach the world about the fast fashion industry</i>	Emmaus High School Brent Landrum
Medicine & Health		
A1001	Kiara Haywood-Rivera <i>Generic vs. Name Brand Pain Relievers</i>	Pennsauken High School Tim Gilbride
A1002	Samantha Lafferty <i>Determining The Role Of Biological Trauma On The Onset Of Hashimoto Thyroiditis</i>	Cherry Hill High School West Brian Grillo
A1003	Jessica Holgado <i>Does a Blue Luminescent Light Affect the Quality of Sleep Differently in Older and Younger Generations?</i>	Bishop Shanahan High School Dennis Holgado
A1004	Hayden Ufberg <i>The Use of Image Analysis to Correlate Conjunctiva Color with Anemia</i>	Jack M. Barrack Hebrew Academy Arthur Maiman
A1005	Andrew Yang <i>Selective Killing of Cancer with a ROS-Regulator and Chemotherapeutic Agent</i>	Central Bucks High School- East Mark Hayden
A1006	Synia Boyer <i>Understanding the Role of IL-6 in Anemia of Inflammation</i>	Central High School Robert Herbstritt
A1008	Claire Tse <i>Modulating Mechano-Sensing of Stone Man Syndrome (FOP) Embryonic Cells</i>	Methacton High School Robert Helm
A1010	Benjamin Doyle <i>Investigating the Utilization of Cryotherapy for Muscular Recovery in Competitive Swimming.</i>	Downingtown STEM Academy Darcy Doyle
A1011	Ariel Baiano <i>Developing a Novel Non-Reliance Posture Trainer</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
A1012	Madison Charnigo <i>Analysis of Potential Exosomal Protein and mRNA Biomarkers for Hepatocellular Carcinoma</i>	Central Bucks High School- East Mark Hayden
A1013	Spencer Davis <i>Using a Thermal Imaging Camera to Detect Temperature Differences Between Normal Stifles and Stifles with Cranial Cruciate Ligament Ruptures in Dogs</i>	Holmdel High School Josephine Blaha
A1014	Rhea Malhotra <i>Developing a cell sorter for CTCs using surface acoustic waves</i>	Moravian Academy Gabriella Dee

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Exhibitor	Exhibit	School & Sponsor	
Microbiology			
A1101	Kiana Amora	<i>Analysis of the Gut Microbiome of G. mellonella and Their Ability to Degrade Polyethylene</i>	Cherry Hill High School West Brian Grillo
A1103	Rishi Vaidyanath	<i>Investigating Synthetic Compounds to Potentiate SMAC Mimetic Targeting Agent</i>	Central Bucks High School- East Mark Hayden
A1104	Erin Greer	<i>Determining a Protein Biomarker as a Diagnostic Tool for Liver Cancer</i>	Central Bucks High School- South Mark Hayden
A1105	Melody Chen	<i>The Role of Necroptosis and Apoptosis in STING-mediated Cell Death</i>	Central Bucks High School- West Mark Hayden
A1107	Taylor Buie	<i>Characterization of Potential Stress Response Mutants to Conquer Antibiotic Resistance</i>	G.W Carver Engineering and Science Mechtild Pohlschroder
A1109	Ruby Benjamin	<i>Comparative Yeast Fermentation for Application in Small Scale Biofuel Production</i>	Jack M. Barrack Hebrew Academy Arthur Maiman
Physics			
A1202	Saikrishna Manojkumar	<i>Understanding How Engineered Plasmonic Nanostructures Can be Utilized as Biosensors Using COMSOL Simulation Software</i>	Central Bucks High School- West Mark Hayden
A1203	Helen Rudoler	<i>Peizelectricity as Alternatiev Energy in Schools</i>	Jack M. Barrack Hebrew Academy Arthur Maiman
A1204	Haley Korwan	<i>An Environmentally Beneficial Alternative for Leading Artificial Turf Infill</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
Zoology			
A1301	Steven Holmberg	<i>Analysis of Crab Pot Entrance Angle Preference of Callinectes sapidus on Varying Dimensions of Bycatch Reduction Devices (BRDs)</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek

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72nd Delaware Valley Science Fair (B)

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Exhibitor	Exhibit	School & Sponsor	
<i>Behavior & Social Sciences</i>			
B0101	Jennine Shuti	<i>Forget Me Not</i>	Philadelphia Academy Charter High School Christine Dunne
B0102	Rick Hsu	<i>A Predictive Model for Cyber Bullying in Middle and High School Teens</i>	Holmdel High School Josephine Blaha
B0103	Zhixuan Ye	<i>Self-perceived vs. Actual Weight Status: Which is a Stronger Predictor of Adolescents' Suicide Intent?</i>	Friends Select School Betty Wang
B0104	Phoebe Yu	<i>Prediction of Student Behavior Problems at Home or School</i>	Yu Homeschool Betty Wang
B0107	Hagar Eldeeb	<i>Memorization vs. Comprehension</i>	Souderton Area High School Karen Wolfe
B0108	Lesslie Montiel	<i>Taste According to Gender and Age: Gustatorial Response to Induced Stimuli</i>	Camden Academy Charter High School Madeline Fenner
B0110	Hannah Fasco	<i>Temperature's Effect on Focus</i>	Bishop Shanahan High School Maryanne Fasco
B0111	Anthony Kostacos	<i>Examining the Execution of Protocols Relating to Concussions from Teachers</i>	Germantown Academy Sarah Kesten
B0112	Chuhan Ouyang	<i>How Does Mental Health Affect Employment? The Mediation Effect of Concentration Ability</i>	Green Hope High School Betty Wang
B0113	Rhea Sharma	<i>Determining The Relationship Between Achievement and Goal Orientation in High School Students</i>	Cherry Hill High School East Brian Vernachio
B0114	Lauren Wolstenholme	<i>A Study of the Effects of Deep Pressure Stimulation on Incidents in Students With Special Needs</i>	PA Leadership Charter School Amy Wolstenholme
B0115	Lauren Lepore	<i>The Effects Of Different Genres And Moods Of Music On Short Term Memory</i>	Holmdel High School Josephine Blaha
B0116	Evelyn Toscarelli	<i>Correlation Between the Sequence of High School Math Courses and SAT Math Scores</i>	Holmdel High School Lauren Lepore
B0117	Jocelyn Freed	<i>Does Human Pet Owner Anxiety Transfer to Their Dog?</i>	Springside Chestnut Hill Academy Scott Stein

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Exhibitor	Exhibit	School & Sponsor	
Biochemistry			
B0202	Julia Lieberman	<i>The Effect of Chlorides on the Stress Response of Daphnia Magna as an Indicator of Stream Health</i>	Springside Chestnut Hill Academy Ann Zalasky
B0203	Elizabeth Castellanos	<i>Amount of Microplastics in Washing Machine Grey Water Based on Detergent Type and Observation of Cycle Timeline</i>	Springside Chestnut Hill Academy Ann Zalasky
B0204	Shawn Li	<i>Fiber's Effects on the Digestion of a Polysaccharide</i>	Upper Dublin High School David Price
B0206	Ganesh Selvakumar	<i>E-cigarettes: A Major Cause of Lung Disease</i>	Marple Newtown High School Dr. Ashakumary Lakshmikuttyamma
B0207	Kaeli Kaymak-Loveless	<i>Epigenetic Effects of Epigallocatechin Gallate on Health of Drosophila melanogaster and Progeny</i>	Unionville High School Amanda Purdy
B0208	Bill Zhang	<i>Role of Par3 in Postnatal Dendritic Spine Morphogenesis in the Hippocampal CA1 Region: Implications in Aging and Neurodegenerative Disorders</i>	Holmdel High School Josephine Blaha
B0209	Elizabeth Zuerblis	<i>The Expression Levels and Epigenetic Control of cGAS in Hepatocellular Carcinoma Cell Lines</i>	Central Bucks High School- South Mark Hayden
B0210	Hans Shen	<i>Elucidating The Effects Of Direct Physical Contact Between Dental Pulp Stem Cells Cultivated On Polybutadiene with Different Stiffness On Proliferation And Differentiation Behaviors</i>	St. Andrews Dan O'Connell
B0211	Sarah Young	<i>Silver Nanoparticles - How Much Is "Too Much?"</i>	Methacton High School Robert Helm
B0213	Bryn Hannah	<i>Will it Glow?</i>	Coventry Christian School Josh Oliver
B0214	Rohan Patil	<i>Spatial Distribution Patterns Of Genes In Intracardiac Neurons</i>	Charter School of Wilmington Susmila Nescrgi
B0215	Winston Li	<i>Immuno-Metabolic Reprogramming of Macrophage Phenotypes</i>	High Technology High School Michael Roche

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<i>Botany</i>			
B0301	Glenda Armas	<i>Seedling Growth Affect on Carrot Root Border Cells</i>	Central Bucks High School- South Mark Hayden
B0305	Nicole Giegerich	<i>The Effect of Plant Type on Carbon Intake as a Possible Guide to Planting for Reducing Global Carbon Dioxide Levels?</i>	Springside Chestnut Hill Academy Scott Stein
B0306	Sophie Kadan	<i>Characterizing the Pea Border Cell Apoptosis Pathway and Its Impact on exDNA Defense</i>	Central Bucks High School- West Mark Hayden
B0307	Aigner Settles	<i>The Effects of Radiation on Radish Seeds and Humans</i>	Pennsauken High School Tim Gilbride
B0308	Katelyn Schuchardt	<i>The Effect of Insecticides on Lettuce</i>	Souderton Area High School Karen Wolfe
B0309	Caitlin Sia	<i>The Effect of Varying Types of Smoke on the Germination Rate of Panicum virgatum</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
B0310	Anam Ali	<i>To grow or not to grow</i>	Parkland High School Michael Post

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Exhibitor	Exhibit	School & Sponsor	
Chemistry			
B0401	Andrew Zhao	<i>Syntheses And Properties Of Prli3as2, Celi3as2, And Celi3as2</i>	Charter School of Wilmington Michael Katz
B0402	Benjamin Lin	<i>Relative Tensile Strength of Starch Based Bioplastics: Effective and Biodegradable Materials for Applications in Consumable Manufacturing</i>	Holmdel High School Josephine Blaha
B0404	Matthew Timofeev	<i>Latex Film Performance after Freeze-Thaw Exposure</i>	Central Bucks High School- South Mark Hayden
B0405	Nathan Yang	<i>Safety of Bottled Water</i>	Upper Dublin High School David Price
B0406	Hyunjin Christina Lee	<i>Increasing Efficiency of Clean Energy Generation by Designing a Photocatalyst as an Alternative to Noble Metal Artificial Catalysts</i>	Conestoga High School Choongkeun Lee
B0407	Rokibat Bamidele	<i>Can Natural Substances Replace DEET?</i>	Central High School Robert Herbstritt
B0408	Brian Henesey	<i>Maximizing the Biosurfactant Production of B. Cereus</i>	Springside Chestnut Hill Academy Ann Zalasky
B0409	Ria Medagam	<i>Understanding the Inhibitory Effects of Metal Ions and Metal - EDTA Complexes on Catalase Activity</i>	Downingtown STEM Academy Rasyalakshmi Medagam
B0410	Lauren Young	<i>Determination on the Safe Use of Gel Nails on Humans</i>	Bishop Shanahan High School Michael Dvorchak
B0411	Anisha Mahuli	<i>Nitrogen Enrichment Of Human Urine Using The Freeze-thaw Method</i>	Charter School of Wilmington Suhass Mauli
B0412	Amanda Serjani	<i>The Affect Different Concentrations of Anthocyanins have on the Fertility and Birth Defects of Drosophila Melanogaster</i>	Central High School Robert Herbstritt
B0413	Alan Gonzalez	<i>Separating the Water H2O Electrolysis</i>	Vineland High School Luzmila Badillo
B0415	Akshatha Manjunatha	<i>Experimental investigation of Cp*TiCl3 Reductions</i>	Parkland High School Michael Post

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Exhibitor	Exhibit	School & Sponsor
Computer		
B0501 Rohan Kanchana	<i>DECODR: Establishing A Novel De Convolution Algorithm For Comprehensive Analysis Of Criser+Sanger Sequencing Data</i>	Newark Charter School Andrea Narvaez
B0503 Jeffrey Gong	<i>Using LSTM To Predict Stock Price</i>	Methacton High School Robert Helm
B0504 Atharva Shanbhag	<i>Utilizing Artificial Intelligence And Software To Demonstrate Strategies And Rationality Applied In Behavioral Game Theory</i>	Charter School of Wilmington Sarita Shanbhag
B0505 Rohan Mehta	<i>Using Blockchain</i>	Souderton Area High School Karen Wolfe
B0506 Kevin Cui	<i>Karaoke "Shazam": Audio Processing with Neural Networks</i>	Germantown Academy Sarah Kesten
B0507 Bradley Xu	<i>A Novel Form of Tensor Flow Object Detection to Aid the Blind in Street Crossings</i>	High Technology High School Michael Roche
B0508 Michael Rybalkin	<i>Handwritten Number Recognition using AI and Computer Vision</i>	Central Bucks High School- East Judy Elinow
B0509 Jerry Lu	<i>Signal Processing And User Interface Implementation For Eeg Data Analysis To Facilitate Tdcs Studies</i>	Charter School of Wilmington Jennifer Toner
B0510 Baoer Li	<i>Automated Instance Segmentation and Keypoint Detection for Spine Imaging Analysis</i>	The Haverford School Betty Wang
B0511 Matthew Magee	<i>Enhancing checkout with an Android app</i>	Emmaus High School Brent Landrum
B0514 Ronak Singh	<i>Spherical Symmetric Nanostructure Modeling</i>	Parkland High School Michael Post

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<i>Earth & Space Sciences</i>		
B0602 Partha Debnath	<i>Solar Rotation Rate</i>	Upper Darby High School Roseann Burns
B0603 Erin Gavin	<i>A Comparison of Hubble Constant Indicators</i>	Souderton Area High School Karen Wolfe
B0604 Jerry Ciani	<i>How Our Solar System is Affected by Gravitational Waves</i>	Lacey Township High School John Kuzan
B0605 Sadie Furgiuele	<i>What Locally Available Materials Would Work If Martian Settlers Need to Repair Their Spacecraft?</i>	Central Bucks High School- West Mark Hayden
B0606 Emily Downs	<i>Analyzing the Effects of Light Attenuation on the Productivity of Microphytobenthos</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
B0608 Manav Singh	<i>Examining the Effect of Climate Change</i>	Lower Moreland High School Richard Becker
B0609 Andy Lau	<i>Effects of Simulated Martian Soil on Radish Plant Growth</i>	Springside Chestnut Hill Academy Ann Zalasky
B0610 Aidan Kelly	<i>Water Temperature vs. Size of a Tornado</i>	Bishop Shanahan High School Denise Kelly

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Engineering		
B0701	Ensar Arslan <i>The Progentabot Experiment</i>	Sussex Technical high School Michele Thomas
B0702	Sophia Grace Capili <i>Developing Uniform Origami-Inspired Artificial Muscles for Prosthetic Limbs</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
B0703	Connor D'Arcy <i>The Best 3D Printer Infill Settings Relative to Weight</i>	Central Bucks High School- West Mark Hayden
B0704	Sudiksha Panda <i>Avoid the Shock of Shocks</i>	Methacton High School Robert Helm
B0705	Nikhila Kumar <i>Building the Best Solar Sail</i>	Unionville High School Doug Vallette
B0706	Yuze Gu <i>Aerial Photo Analysis on Disturbed Areas</i>	Springside Chestnut Hill Academy Scott Stein
B0708	Dennis Koh <i>Radio and Radar Cooperation for Sensing while Talking</i>	Conestoga High School Kwang-Jin Koh
B0709	Carter Gassler <i>Soft Robotics</i>	Avon Grove Charter School (upper) Paul Gassler
B0710	Maya Quinn <i>A Novel Wind Turbine For Coastal Usage</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
B0715	David Zhou <i>Moving Tennis Ball Launcher</i>	Upper Canada College Betty Wang
B0716	Emily Wang <i>Wearable Lactate Sensor: Effective Biomarker Monitoring</i>	Germantown Academy Sarah Kesten
B0717	Jake Donnini <i>Artificial Sonar For The Blind</i>	Woodstown High School Chris Rickard
B0718	Siddhi Date <i>Modifying a Piezoelectric Device Harvesting Sound Energy</i>	North Penn High School Melody Leithold
B0719	Amadou Gueye <i>Water Filter</i>	Northeast High School James Finely
B0721	Sujhila Altayeb <i>The effect of plane shape on weight bearing capability</i>	Freedom High School Graceanne Ruggiero
B0722	Joseph Gromlowicz <i>Using capillary forces to transport water at high efficiencies</i>	Nazareth Area High School Lindsay Hoff

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Environmental			
B0801	Cindy Sako	<i>Effect of pH and Ocean Acidification on Algae Photosynthesis</i>	Central High School Robert Herbstritt
B0804	Amanda Wang	<i>Fungi: A Solution to Eutrophication</i>	Methacton High School Robert Helm
B0805	Lillian Miller	<i>Effects of Plastic Leachates on Various Organism</i>	Perkiomen Valley High School Mary Cutillo
B0806	Jeffrey Sun	<i>How Slapping Zea Mays Plants Affects Brace Root Stability</i>	Charter School of Wilmington Dawn Vega
B0807	Anna Zhou	<i>Microplastic Mitigation: Comparing Effectiveness of Extraction Methods</i>	Upper Dublin High School David Price
B0808	Simar Arora	<i>The Effect of Insecticide and Radiation on the Embryonic Development of Danio rerio</i>	Biotechnology High School Ann MacLean
B0811	Lucy Schofield	<i>Locating Sources Of Run-off Using Daphnia Magna</i>	Charter School of Wilmington Rick Schuder
B0812	Julia Cunningham	<i>Recycling Greywater</i>	Villa Joseph Marie High School Megan Preedy
B0814	Aashika Shah	<i>Turning waste into electricity with the microbial fuel cell</i>	Parkland High School Michael Post
Mathematics			
B0901	Matteo Rogers	<i>\$7.53 Candy!</i>	G.W Carver Engineering and Science Lisa Franchetti
B0902	Ayan Lateef	<i>Using Economic Indicators as a Factor for a Predictive Model to Estimate Potential Future Pollution for Developing Nations</i>	Holmdel High School Josephine Blaha
B0903	Anqi Zhang	<i>An Analysis of Big Data on Price of Wine</i>	Academy of Holy Angels Betty Wang
B0904	Eileen Xiao	<i>Analyzing Energy Use and Various Attributes of Buildings</i>	Upper Dublin High School David Price
B0906	Siyu Shen	<i>Annual Change in Multidimensional Poverty Index (MPI): Is It Associated with Baseline MPI-related Measures?</i>	Westtown School Betty Wang
B0907	Annie Wang	<i>Bridging the Air Gap</i>	Central Bucks High School- East Judy Elinow
B0908	Elizabeth Fellingner	<i>Beauty With The Golden Ratio</i>	Pennsville High School Cherie Burns
B0909	Joshua Lee	<i>On evading students by your teacher</i>	Liberty High School Thomas Tancin
B0911	Neha Skandan	<i>A mathematical model to predict optimized solutions to mitigate the opioid crisis</i>	Moravian Academy Gabiella Dee

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Medicine & Health			
B1002	Pranita Sannidhi	<i>Effect of Different Caffeine and Ethanol Dosages on Ameliorating Beta-Amyloid-Plaque Induced Paralysis in C. elegans</i>	Biotechnology High School Ann MacLean
B1003	Maab Taha	<i>Block the Bitter: Using Sophorolipids to Suppress Bitter Taste in Malaria & HIV Drugs</i>	Central High School Robert Herbstritt
B1004	Elana Agarwal	<i>Chemical Exposed: The Effectiveness Of Antimicrobial Agents On Biofilms</i>	Charter School of Wilmington Rick Schuder
B1005	Claire Moustafellos	<i>Toxicity and LD50 of Magnesium</i>	Springside Chestnut Hill Academy Scott Stein
B1006	Emma Lo	<i>Integrated Analysis of Blood Biomarkers of Major Depressive Disorder Susceptible Genes</i>	The Shipley School Betty Wang
B1008	Wenjin Sun	<i>Near-sighted Work and Myopia Progression Among Chinese Middle School Students</i>	The Episcopal Academy Betty Wang
B1009	Kaliya Bonner	<i>Can Women Hear Higher Frequencies Than Men?</i>	Pennsville High School Cherie Burns
B1011	Dagmar Daniel	<i>Protecting Astronauts' Brains from Alzheimer's Disease</i>	Wissahickon High School Bruce Rothenberger
B1012	Shriya Boyapati	<i>Neurorecovery Effect Of Combination Therapies On Parkinsons Disease In-vitro Models</i>	Charter School of Wilmington Dr. Hwan Kim
B1013	Samudrika Mohanta	<i>Genetic Aspects of Diabetes</i>	Downingtown West Campus High School Pramod Mohanta
B1014	Ishana Baboo	<i>In Vitro Characterization of DNA-encoded PCSK9 Monoclonal Antibodies</i>	Lower Merion High School Sara Campbell
B1016	Azim Shad	<i>Testing Different Microbiological Growth Media For Growth Of Bradyrhizobia Bacteria</i>	Charter School of Wilmington Muhammad Shad
B1017	Eileen Zhang	<i>Analyzing the Effects of the Opioid Crisis on Lifespan</i>	Germantown Academy Sarah Kesten
B1019	Zongren Zhang	<i>Is Weight Status Related to Substance Use Among Adolescents? Findings from United States</i>	Mary Institute and Country Day School Betty Wang

Delaware Valley Science Fairs 2020

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Exhibitor	Exhibit	School & Sponsor	
Microbiology			
B1101	Makana Steinmetz	<i>Investigating Bacterial Presence in Total Suspended Solids</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
B1102	Shrinija Dandibhotla	<i>Inhibition of Bacterial Growth: Natural vs. Synthetic Antibiotics</i>	Methacton High School Robert Helm
B1104	Giovanna Onofrietti	<i>The Inhibitory Effects of Cannabidiol and Xylitol on Pathogenic Oral Bacteria</i>	Toms River High School North Christine Girtain
B1106	Mary Catherine Ashmore	<i>How Does the Percent of Bleach Affect the Killing of Bacteria?</i>	Bridgeton High School Claudia Angle
B1107	Sarah Rojas	<i>Inducing Dysbiosis in Brown Planaria with the Single Strain Probiotics</i>	Germantown Academy Sarah Kesten
B1108	Carly Valen	<i>How Long After a Single use Does a Disinfectant Wipe Continue to be Effective?</i>	Springside Chestnut Hill Academy Scott Stein
B1109	Jane Cohen	<i>The Antimicrobial Properties of Oligosaccharides: A Natural Antibiotic</i>	Moorestown High School Sean Watson
B1110	Kathleen Antonakakis	<i>Comparison of Bacterial Growth Absorbed Through Artificial Epidermis In Organic vs Non-Organic Cosmetics</i>	Holmdel High School Josephine Blaha
B1112	Rachel Li	<i>The effectiveness of drug synergism between melaleuca alternifolia oil and cocos nucifera oil against fungal infections</i>	Parkland High School Michael Post
Physics			
B1201	Kayla Bleier	<i>The Effects of Combution Aiding GAs on Model Rocket Engines</i>	Jack M. Barrack Hebrew Academy Arthur Maiman
B1202	Riya Keshri	<i>The Sound of Fire</i>	Central Bucks High School- West Mark Hayden
B1204	Vanessa Cleophat	<i>Dry Ice Explosion</i>	School of the Future Zachary Minken
B1205	Pranav Padmanabhan	<i>Fractal Capacitors: Investigating A Novel Method Of Constructing Capacitors</i>	Charter School of Wilmington David Stover
B1206	Darren Wu	<i>Rapid Thickness Identification methodology For The Two Dimensional Mos2 And In2Se3 Nanosheets Using Optical Microscopy</i>	Charter School of Wilmington Regina Fody
B1209	Justin Xu	<i>Electronic Structure Bases For Failure In Fluoropolymer Chains</i>	Charter School of Wilmington Rose Lounsbury
B1210	Eric Zhong	<i>Tunable Plasmonic Device Based on Dynamic Simulated BST Nanostriations</i>	Upper Dublin High School David Price

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Exhibitor	Exhibit	School & Sponsor	
Zoology			
B1301	Victoria Cohen	<i>The Effect of Varying Surfaces on Cockroach Gait</i>	Springside Chestnut Hill Academy Scott Stein
B1302	Magen Swartley	<i>Identifying Ragweed Pollen in Honey</i>	Souderton Area High School Karen Wolfe
B1305	Carolyn Almonte	<i>The Effect Of Radiofrequency Electromagnetic Radiation On The Immune Defense And Life History Traits Of Chrysoperla Rufilabris</i>	Burlington Township High School Heather Almonte
B1306	Gianna Fiduccia	<i>A Study of Autophagy: Intermittent Fasting in Relation to the Promotion of Stem-Cell Regeneration of Planaria</i>	Villa Joseph Marie High School Stephanie Syzlejko
B1307	Jadira Foster	<i>Testing the Effects of Manganese on Coral Bleaching</i>	Foster Homeschool Kelsey Speer
B1309	Isabella Cozzone	<i>The Ratio of Sea Nettle Polyps on Wood Versus Vinyl Docks</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
B1310	Hassan Choudhry	<i>The Effect of Salinity on the Heart Rate of Daphnia magna</i>	Biotechnology High School Ann MacLean

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Exhibitor	Exhibit	School & Sponsor
<i>Behavior & Social Sciences</i>		
C0101	Samaha Zarin <i>Effect of Multilingualism and Early Language Acquisition on Cognitive Function</i>	Upper Darby High School Roseann Burns
C0103	Kaitlyn Kaulback <i>Motivation Contemplation</i>	Archmere Academy Glenn Hartman
C0105	Annie Wang <i>The Effect of the Amount of Nightly Sleep on the Difference between Working and Resting Heart Rate in High Tech Students</i>	High Technology High School Michael Roche
C0107	Olivia Takla <i>Using Machine Learning and Smart Insoles for Early Detection of Autism Spectrum Disorder</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
C0108	Skye Scarlett <i>Snips, Snails, Sugar, & Spice</i>	Souderton Area High School Karen Wolfe
C0109	Samar Oubarri <i>Effects of Placement into an MG Program on Teen Stress</i>	Central High School Robert Herbstritt
C0110	Anna Fattizzo <i>Gender Bias in Advertising</i>	Upper Darby High School Roseann Burns
C0111	Aarya Doshi <i>The Effect of Pocket Size on How Female Students Value Garments</i>	High Technology High School Michael Roche
C0113	Emma Schrandt <i>Birth Order's Effect on Youngest Siblings Personality</i>	Central Bucks High School- West Mark Hayden
C0114	Simi Edeki <i>How Do Emotions Affect Boundary Extension</i>	Archmere Academy Glenn Hartman
C0116	Lena Shaddinger <i>Evaluation of Speed in Runners with Spikes and Trainers</i>	Upper Dublin High School Dawn Edelman
C0117	James Donnelly <i>Does your sibling drive you crazy?</i>	Freedom High School Graceanne Ruggiero

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Exhibitor	Exhibit	School & Sponsor
Biochemistry		
C0202	Gwen Ericson <i>Maximizing Knockdown in Engineered ATSB Station Prototypes In Field And Laboratory Settings</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
C0203	Ava Kennedy <i>Can a Fluorescent DNA Dye Work in Simulated Crime Scene Scenarios to Visualize DNA in Fingerprints?</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
C0204	Zihan Yang <i>Applications of Exosomes The Diagnosis and Treatment of medulloblastoma</i>	Lower Moreland High School Richard Becker
C0205	Shayl Chetty <i>Developing and Assessing the Mechanical Properties of Hydroxy-propyl Cellulose Films</i>	Conestoga High School Dushen Chetty
C0206	Amar Dhanjal <i>Enzyme Catalyzed Reactions</i>	G.W Carver Engineering and Science Lisa Franchetti
C0207	Maya Butani <i>Putting the Plant in Transplant: Plant Scaffolds for Tissue Engineering with Stem Cells</i>	Moorestown High School Sean Watson
C0208	Ruiyao Zhu <i>Exploring Novel Drug Targets for Brain Tumor Through Transcriptomes Analysis</i>	The Hill School Erin Ruane
C0211	Phoebe Vallapureddy <i>Effects of Varying pH on Lysozyme in Egg White</i>	Central Bucks High School- East Judy Elinow
C0212	Hyunkyung Katherine Lee <i>How Surrounding Charges Affect Color Detection by the Retinal Chromophore</i>	Conestoga High School Choongkeun Lee
Botany		
C0301	Lilian Boffin <i>Growing Plants in Blood v.s. Water</i>	Woodstown High School Chris Rickard
C0302	Micaeli Dym <i>The Effect of Different Media-Based Vertical Hydroponic Systems on the Wet Biomass of Brassica Oleracea</i>	High Technology High School Michael Roche
C0303	Keira Trout <i>Nature vs. Nurture: Which is Better?</i>	Perkiomen Valley High School Mary Cutillo
C0304	Esben Nielsen <i>The Effect of Inoculation with Rhizobium or Pseudomonas putida on the Crop Yield of Alfalfa Plants</i>	High Technology High School Michael Roche
C0305	Brad Miller <i>The Application of Melatonin to Stimulate Growth in Mung Beans</i>	High Technology High School Michael Roche
C0307	Mahari Brown <i>Bean Growth in Saltwater</i>	G.W Carver Engineering and Science Lisa Franchetti
C0308	Annetta Yuwono <i>Squashing Cancer</i>	Julia R. Masterman Kathleen Tait
C0309	Veronica Swartz <i>Determining Phosphate-Sensing in Lettuce Roots</i>	Central Bucks High School- South Mark Hayden

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Exhibitor	Exhibit	School & Sponsor	
Chemistry			
C0403	Harini Shankar	<i>Analysis of E-cigarette Emissions and Comparison to Traditional Tobacco Cigarette Emissions</i>	Central Bucks High School- South Mark Hayden
C0405	Benjamin Shain	<i>Comparison of Legitimate and Counterfeit Magic the Gathering Cards in Terms of Percent Transmittance</i>	High Technology High School Michael Roche
C0407	Sara Kuzan	<i>The Effectiveness of Moisturizers</i>	Lacey Township High School Alexandra York
C0408	Irene Biju	<i>Biodiesel: The fuel of the Future</i>	Methacton High School Robert Helm
C0409	Cameron Morgan	<i>What Sports Drink has the Highest Level of Electrolytes?</i>	Woodstown High School Carol Althouse
C0411	David Yan	<i>Defeating Climate Change: An Efficient Electrochemical Cell To Capture Carbon Dioxide Out Of The Atmosphere</i>	Charter School of Wilmington Dr. Heffner
C0413	Taylor Emanuel-Jackmon	<i>The Effect of Formation Time on Hydrogel Bead Diffusion</i>	Upper Darby High School Roseann Burns
C0414	Mason Melito	<i>Utilizing a 5 % Citric Acid Solution to Formulate a Biodegradable Alternative to Plastic Using Various Leaf Types by Studying Leaf Physiognomy</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
C0416	Nhien Dinh	<i>Does Temperature or Concentration affect pH?</i>	Pennsauken High School Tim Gilbride
C0417	Dylan Kuang	<i>Effect of Plasticizers on the Decomposition of Bioplastics</i>	Methacton High School Robert Helm
C0418	Isabel Portner	<i>Testing The Filtration of Chromium-6 Using Ion-Exchange Resins</i>	Julia R. Masterman Kathleen Tait
C0419	Ciana Brady	<i>Essential Oils vs. Harmful Hydrocarbons</i>	Philadelphia Academy Charter High School Christine Dunne
C0420	Jason Chang	<i>The Effects of Temperature Change on Vitamin C Levels in Fruit</i>	Upper Dublin High School Dawn Edelman
C0422	Sana Nauman	<i>What's cooking? An exploration of nitrites in foods</i>	Parkland High School Michael Post

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Exhibitor	Exhibit	School & Sponsor	
Computer			
C0501	Eeshwar Krishnan	<i>Using Computer Analysis to Predict the Folds in a Protein</i>	PA Leadership Charter School Sriram Krishnan
C0503	Daniel Luo	<i>Optimization of NLP Through Genetic Algorithms</i>	Upper Dublin High School Dawn Edelman
C0504	Aastha Gautam	<i>Identify Objects in Images and Videos Using Computer Vision Technology's and Machine Learning.</i>	Central Bucks High School- East Judy Elinow
C0506	Edmond Niu	<i>The Influence of Tennis Ball Condition on Bounce Height</i>	High Technology High School Michael Roche
C0507	Carter Hancock	<i>Neural Networks and Genetic Algorithms</i>	Souderton Area High School Karen Wolfe
C0509	Jeffrey Cheng	<i>Neural Networks in Medicine: Diabetic Retinopathy Detection</i>	Germantown Academy Sarah Kesten
C0510	Varoon Raghupathi	<i>Maximizing Airport Efficiency</i>	Council Rock High School- North Terese Grateful
C0511	Kristen Park	<i>Analysis of the Health of Brassica oleracea var. sabellica Leaves in an Aeroponics System Using Machine Learning</i>	High Technology High School Michael Roche
C0512	Lalitha Loka	<i>Optimization of a breast cancer neural network to improve success of diagnosis of fine needle aspirations</i>	Parkland High School Michael Post
Earth & Space Sciences			
C0601	Kamil Vazquez	<i>Freezing Rocks</i>	Mariana Bracetti Academy Charter School Molly Maldonado
C0602	Elena Tawa	<i>Pathways in Warped Space-time</i>	Central Bucks High School- East Judy Elinow
C0603	Abigail Meyer	<i>Investigating Which Wetlands Vegetation Acts as the Best Natural Nitrogen and Phosphorus Filter</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
C0604	Mehir Badlani	<i>Analysis of Surface Level CO2 Concentration and pH Around the Globe Using Statistical Data</i>	Central Bucks High School- South Mark Hayden
C0605	Michael Hudak	<i>An Examination of Radon Levels Compared to Soil Classification</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
C0606	Emily Byrne	<i>The Effect of Sulfates and Nitrates on Precipitation in New Jersey</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
C0608	Gopiga Dass	<i>Red Thumbs The Purification of Martian Regolith for Plant Growth</i>	Lower Moreland High School Richard Becker
C0609	Megan Kraunelis	<i>Measuring Magnetic Waves</i>	Villa Joseph Marie High School John Gentile

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Exhibitor	Exhibit	School & Sponsor
Engineering		
C0701	Shiva Subramanian <i>The Effect of an Angled Suspension System on the Balance of Motorcycles</i>	High Technology High School Aimee Babbins
C0703	Eric Mass <i>Building a Mechanical Clock</i>	Central Bucks High School- West Mark Hayden
C0705	Sitian Wang <i>A Novel Design of Fire Detection and Distinguishing Robot Based on SSD Algorithms</i>	The Hill School Erin Ruane
C0706	Leah Baker <i>Destroying Domes: Testing the Structural Strength of Different Types of Geodesic Domes</i>	Bishop Shanahan High School Stefanie Baker
C0707	Luke Price <i>The Effect of Angle of Attack on Different Airfoil Types</i>	Upper Dublin High School Leanne Jones
C0708	David Volchonok <i>On Echo's and Spatial Change</i>	Lower Moreland High School Richard Becker
C0709	Matthew Sparling <i>Evaluating Drone Flight Stability Using Different Sling Configurations</i>	Penncrest High School Jay Sparling
C0711	Ashley Tang <i>Color Wheel Oil Paint Dispenser</i>	The Episcopal Academy Matthew Memmo
C0713	Jack Ringenbach <i>Constrained Layer Damping</i>	Bishop Shanahan High School Daniel Ringenbach
C0714	Riva Sharma <i>Systematic Nanogenerator Based on the Concept of Snow Triboelectrification</i>	Cherry Hill High School East Brian Vernachio
C0717	Cayla Beasley <i>Hydropower: The Future of Clean Energy</i>	Woodstown High School Carol Althouse
C0718	Danielle Murat <i>Utilizing Sources of Renewable Energy to Construct a Hand-Crank Generator</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
C0720	Mikail Jaffer <i>Building a cost-effective autonomous unmanned aerial vehicle</i>	Moravian Academy Gabiella Dee
C0721	Liam Allen <i>Kinetic Energy in a Practical Sense</i>	Nazareth Area High School Lindsay Hoff

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Exhibitor	Exhibit	School & Sponsor	
Environmental			
C0801	Willow Kaplan	<i>The Decomposition Rate of Biodegradable Cups</i>	Upper Dublin High School Dawn Edelman
C0802	Maria Karakousis	<i>Eutrophication and Cyanobacteria</i>	Julia R. Masterman Kathleen Tait
C0803	Harold Huang	<i>The Effects of Rotten Organic Matter on Decomposition of Cellulose in Paper Towels in Compost Soil</i>	High Technology High School Michael Roche
C0804	Rohan Sharma	<i>How Can We Restore The pH Of Our Oceans</i>	Central Bucks High School- West Mark Hayden
C0806	Alicia Wexler	<i>Plastic Havoc</i>	Avon Grove High School Carl Wexler
C0809	Stanley Gian	<i>The Effects of Deicing Salts on the Photosynthesis of Elodea</i>	Upper Darby High School Roseann Burns
C0810	Sophia Jarrar	<i>The Bacterial Bioremediation of 3-Nitrobenzanthrone</i>	Upper Dublin High School Joanne Lilliendahl
C0811	Emily Luo	<i>Testing the Efficacy of the Sediment-Microplastic Isolation (SMI) Unit Protocol Against Extraction Method 1 in Filtering Microplastics from Sediment</i>	High Technology High School Michael Roche
C0812	Molly Doppler	<i>Prokaryotic Superheroes Save the Bay</i>	Sussex Technical high School Michele Thomas
C0813	William McQuestion	<i>Plant pH</i>	Woodstown High School Carol Althouse
C0814	Lea Wang	<i>Effective Filtration Of Amoxicillin From Wastewater Using Activated Charcoal Filters</i>	Council Rock High School- South Matthew Ciaudelli
C0815	Nicholas Worrall	<i>How Effective Are Wax Worms At Breaking Down Different Types Of Plastics?</i>	Central Bucks High School- West Mark Hayden
C0816	Prisha Srivastava	<i>Could algae be the answer to global warning</i>	Parkland High School Michael Post
C0817	Ilyas Kose	<i>Effects of differing feed compositions on the rearing of crickets for consumption</i>	Moravian Academy Gabriella Dee
C0818	Alex Gundry	<i>Comparing biogas generators</i>	Nazareth Area High School Lindsay Hoff
C0819	Samit Mohapatra	<i>Microplastic and nanoplastic removal from water by activated carbon made from eaves</i>	Moravian Academy Gabriella Dee
Mathematics			
C0902	Kavish Saini	<i>Relationship Between the Area of a Circle to Other Similar Equilateral Polygons in Regard to Radius</i>	Downingtown STEM Academy Ritu Saini
C0906	Yulun Wu	<i>Do Developers Have a Sense of Obligation to Consider the Ethical Implications of their Code?</i>	Northfield Mount Hermon Betty Wang

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Exhibitor	Exhibit	School & Sponsor	
Medicine & Health			
C1001	Susan Deering	<i>Designing a Prosthesis to Aid Hand Motion of Violin</i>	Avon Grove High School Ann Deering
C1003	Emma Cartnick	<i>Analyzing the Long Term Effects of Osteoarthritis on the Biomechanics of the Human Knee</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
C1004	Maria Thomas	<i>The Effect of Homeopathic Remedies and Synthetic Antibiotics on the Inhibition Concentration and Resistance of E. coli K-12.</i>	Downingtown STEM Academy Joyce Vas
C1005	Prithvi Parthasarathy	<i>Analysis of Thoracic Deformity and Pulmonary Function in Patients with Early Onset Scoliosis (EOS)</i>	Great Valley High School Padhmaja Kannan
C1006	Jewel La Bletta	<i>Investigating the Effects of E-Cigarettes Aerosols on Drosophila</i>	Cherry Hill High School West Brian Grillo
C1007	Nicole Wealand	<i>Ankle Taping to Prevent Inversion Injuries While Maintaining Flexibility</i>	Upper Dublin High School Dawn Edelman
C1008	Norah Alavi	<i>The Association Between Daphnia Heart Rate and E-Liquid</i>	Upper Dublin High School Joanne Lilliendahl
C1009	Kera McCarthy	<i>Leaves as Human Tissue?</i>	Julia R. Masterman Kathleen Tait
C1010	Ashley Rosica	<i>The Effectiveness of Shampoo on the Tensile Strength of Hair</i>	Villa Joseph Marie High School John Gentile
C1011	Maria Giannakopoulos	<i>The Effects of Athletic and Academic Stress on Heart Rate Variability</i>	High Technology High School Michael Roche
C1012	Chirag Choudhary	<i>The Effect of Chloramphenicol Resistance Conferred by Tn2424 and MarR11 Genes Escherichia coli Resistance to T4 Bacteriophage</i>	Unionville High School Satyajit Choudhary
C1013	Christopher Sarpong	<i>Night Shift</i>	Philadelphia Academy Charter High School Amanda Burau
C1015	Emily Marshall	<i>The Effect of the Brand of Aspirin on Dissolution Rate</i>	Upper Dublin High School Dawn Edelman
C1016	Shreyas Ramkumar	<i>Methods to Detect the Body's Postural Compensations During Recovery from a Back Injury</i>	Central Bucks High School- South Mark Hayden
C1017	Gabriella Kantor	<i>Potential Medicational Cure for Grey Hair</i>	Avon Grove Charter School (upper) Gennadiy Kantor
C1018	Grace Hercik	<i>The effect of sports drinks on resting heart rate and blood pressure</i>	Freedom High School Graceanne Ruggiero

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Exhibitor	Exhibit	School & Sponsor
Microbiology		
C1102	Pranay Linga <i>Antibacterial Effects Of Various Spices On Lactobacillus Acidophilus</i>	Charter School of Wilmington Ravik Linga
C1103	Irene Abraham <i>Bioremediation with Oil-Eating Microbes for Oil Spills</i>	Downingtown STEM Academy Abey Jacob
C1104	Braden Churches <i>Catchin' Too Much Sun: The Effects of UV Rays</i>	Dock Mennonite Academy High School Kellena Smith
C1105	Rayan Jawa <i>Creating More Effective Vaccines Through Bioinformatic Identification of Immunogenic Epitopes.</i>	Holmdel High School Josephine Blaha
C1107	Lakshmi Yannam <i>Effectiveness of Solar Disinfection on Escherichia Coli in Various Colored Water Bottles</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
C1108	Jai'lyn Lagrone-Lassiter <i>Damaging Ultraviolet Rays</i>	G.W Carver Engineering and Science Lisa Franchetti
C1109	Kristina Krishna <i>Which Yogurt Contains the Most Bacteria?</i>	Woodstown High School Carol Althouse
C1110	Gina Olivieri <i>How Clean is Your Mouth?</i>	Philadelphia Academy Charter High School Christine Dunne
C1111	Thanmayee Yalamanchi <i>Studying the Antibacterial Effects of Purified Plant Extracts on Pathogenic Bacteria</i>	Central Bucks High School- South Mark Hayden
C1113	Sunskriti Gupta <i>Spices Vs. Cancer</i>	Methacton High School Robert Helm
C1115	Sarah Santos <i>Various Methods for the Quantification of Growth of Pyrocystis fusiformis</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek

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Exhibitor	Exhibit	School & Sponsor	
Physics			
C1201	Allison Courtenay	<i>Generating More Electricity by Decreasing Temperature</i>	Upper Dublin High School Dawn Edelman
C1202	Jen Parsons	<i>Optimal Hair Bun Placement to Reduce Drag for Swimmers</i>	Upper Dublin High School Dawn Edelman
C1204	Zachary Abudahri	<i>Wireless Electricity</i>	Upper Darby High School Roseann Burns
C1206	John Zhang	<i>Gravity Coefficient Factor Study of Object in Different Density Fluids/Substances</i>	Vineland HS AMSA Miriam Jamil
C1209	Annalise Schuck	<i>Effect of Average Thrust on Model Rocket Engines of the Same Total Impulse</i>	Villa Joseph Marie High School John Gentile
C1210	Manuel Thomas	<i>Electromagnetic Induction Efficiency: What is the Most Effective Way to Reduce a Current?</i>	Downingtown STEM Academy Joyce Vas
C1211	Alexander Postovskiy	<i>The Effect of Wall Paint Sheen on the Color Rendering Accuracy of Reflected Light</i>	High Technology High School Michael Roche
C1212	Margaret Quiroz	<i>Increasing Destructive Interference in Sound</i>	Bishop Shanahan High School Antonio Quiroz
C1215	Nicole Nguyen	<i>Measuring Sound Absorption Properties in Pine Lake Park and Sedge Island</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
C1217	Michaela Caldwell	<i>Using Cymatics to Find Node Patterns in Chladni Plates</i>	Upper Dublin High School Dawn Edelman
C1218	Elizabeth Bowe	<i>Measuring the Surface Tension of Water</i>	Villa Joseph Marie High School John Gentile
Zoology			
C1301	Randilyn Saul	<i>How Weather Affects Turkey Vulture Roosting Behavior</i>	Coventry Christian School Josh Oliver
C1303	Shealyn Lawless	<i>Developing and Testing a Low-Cost Deicing Agent with Minimal Faunal Impacts on <i>Palaemonetes</i> spp.</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
C1304	Bridget Magee	<i>The Effect of Light Pollution on Courtship Behaviors of <i>Drosophila melanogaster</i></i>	Souderton Area High School Karen Wolfe
C1305	Payton Przyuski	<i>Chronic Wasting Disease</i>	Central Bucks High School- West Mark Hayden
C1306	Abigayle Heathwaite	<i>Effect of Nanosilver of Aquatic Animals</i>	Woodstown High School Carol Althouse
C1307	Sangeetha Bhuyan	<i>Protein Denaturation of Invasive Spotted Lanternfly</i>	Germantown Academy Sarah Kesten

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Exhibitor	Exhibit	School & Sponsor
<i>Behavior & Social Sciences</i>		
D0101	Veronika Medvedeva <i>The Effect of Phones on a Student's Ability to Focus</i>	Upper Dublin High School Dawn Edelman
D0103	Vox Ch'ng <i>Predictors of Morality</i>	Cherry Hill High School East Brian Vernachio
D0104	Aidan Garber <i>How Anxiety is Affected by Music and Meditation Methods in a High School Student.</i>	Cherry Hill High School West Brian Grillo
D0107	Lucas Collins <i>The Effect of Pop Up Advertisements on Reading Comprehension</i>	Upper Darby High School Roseann Burns
D0108	Marie-Lainie Galdo <i>How Does Multi-tasking Affect the Efficiency of the Brain</i>	Lower Moreland High School Richard Becker
D0109	Kayla D'Eletto <i>Can Disabled Voices Be Able To Use Voice ID on AI?</i>	Germantown Academy Sarah Kesten
<i>Biochemistry</i>		
D0202	Josiah Saddick <i>Biogas Recovery for Renewable Energy</i>	Upper Darby High School Roseann Burns
D0203	Lucy Wang <i>Assessing the Roles of Colitis-Associated Myofibroblast Cells</i>	Methacton High School Robert Helm
D0204	Jessie Jin <i>Exploration of Protein Denaturation</i>	Council Rock High School- North Terese Grateful
D0205	Hannah Gong <i>The Effect of Different Antacids on Gastric pH</i>	Upper Dublin High School Dawn Edelman
D0208	Uma Bapat <i>The Effect of Production Methods on Vitamin C in Fruits</i>	Methacton High School Robert Helm
D0209	Morgan Polk <i>Let It Glow</i>	Woodstown High School Stephen Ordog
D0210	Brianna Suliguin <i>The Effect of Different Sweeteners on the Anaerobic Respiration of <i>Saccharomyces cerevisiae</i></i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
D0211	Danielle Hughes <i>How Much Gas is Produced When Food Decomposes?</i>	Woodstown High School Jennifer Sorbello
D0212	Sammit Bal <i>Effects of varying water temperature on the rate of cellular respiration in germinating and nongerminating peas</i>	Parkland High School Michael Post
D0213	Sathvika Rajkumar <i>The Study of Metabolic Reactions and the Perceived Benefits</i>	Parkland High School Michael Post

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Exhibitor	Exhibit	School & Sponsor
Botany		
D0301	Jordyn Smith <i>The Ripening Process of Musa acuminata</i>	Salem County Vocational Technical School Kristen Redkoles Polk
D0302	Nicole Truong <i>Discovery Chlorophyll using Chromatography Paper</i>	Philadelphia Academy Charter High School Christine Dunne
D0304	Sherly Chen <i>Effect of Ginkgo Biloba on Drosophila Melanogaster</i>	Central High School Robert Herbstritt
D0305	Sneha Chaudhuri <i>Study of Efficient Watering Methods for Plant Growth</i>	Upper Dublin High School Joanne Lilliendahl
D0306	Katherine Rasmussen <i>Underwater Salad: How Raphanus Sativus Reacts to Being Grown in an Underwater Environment</i>	Vineland HS AMSA Marie Donato
D0307	Keyan Vojdani <i>Completely Compost: A Study of How Types of Fungi Affect the Decomposition Rate of Compost</i>	Moorestown High School Sean Watson
D0308	Sameeksha Panda <i>Plants Vs.. Soil Erosion</i>	Methacton High School Robert Helm
D0309	Klement Swartz <i>Correlating Root Cap Cells and Seedling Emergence in Ocimum basilicum</i>	Tamanend Middle School Mark Hayden
D0310	Roshen Gandotra <i>Comparisons of nitrogen fixation techniques to enhance plant growth</i>	Moravian Academy Gabriella Dee
Chemistry		
D0401	Suraj Samudrala <i>A Curative Catalyst: Pineapple's Chemical Reaction with Gelatin</i>	Holicong Middle School Robert Meletti
D0402	Jabe Cox <i>The Effect of Temperature on Solubility of CO2 in Water</i>	Upper Darby High School Roseann Burns
D0403	Anna Lu <i>How to Make Ibuprofen More Efficacious</i>	Methacton High School Robert Helm
D0404	Jamerika Grandberry <i>Benefits of Composting</i>	Temple Upward Bound Amanda Burau
D0407	Scott Schlackman <i>Cleaning Solutions Efficacy in Protein Residue Removal</i>	Upper Dublin High School Joanne Lilliendahl
D0410	Deven Chakrabarti <i>Low Energy Desalination of Seawater Using Selective Solvents, Part 2</i>	Moorestown High School Sean Watson
D0411	Emma Joyce <i>The Effect of Saturation on Aluminum Potassium Sulfate Crystal Growth</i>	Salem County Vocational Technical School Kristen Redkoles Polk
D0413	Mai Hukuoka <i>Effects of Substrate concentration and environment temperature on the rate of catalase reactions</i>	Parkland High School Michael Post

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Sponsored By DVSF

Exhibitor	Exhibit	School & Sponsor	
Computer			
D0501	Varun Singh	<i>Simulating Frequency Analysis in Java</i>	Lower Moreland High School Richard Becker
D0503	Samuel Wang	<i>Predicting Influenza Outbreak with a Machine Learning Model</i>	Germantown Academy Sarah Kesten
D0504	Sreekara Dandibhotla	<i>Image Recognition Visual Aid for Visually Impaired People</i>	Methacton High School Robert Helm
D0507	Sanika Kothari	<i>Fusion-plasma response modeling through neural network machine learning</i>	Parkland High School Michael Post
D0508	Okezue Bell	<i>MedMaster - an application tailored by and for medical students</i>	Moravian Academy Gabriella Dee
D0510	Rithik Raghuraman	<i>An autonomous self-driving car</i>	Parkland High School Michael Post
Earth & Space Sciences			
D0601	Ethan Thomson	<i>The Impact of Ground Rod Depth on Ground Rod Resistance</i>	Owen J Roberts High School Graeme Thomson
D0602	Luke Olmstead	<i>The Effect of Substrate on Wave Transmission</i>	Upper Darby High School Roseann Burns
D0603	Holly Binkowski	<i>Ocean Acidification on Mytilus edulis Shells</i>	Pope John Paul II High School Clayton Cottman
D0604	Parmesh Sivakumar	<i>A Comparative Analysis of Bio-diesel from Different Vegetable Oils</i>	Methacton High School Robert Helm
D0605	Brittany Zhang	<i>Finding Conditions for Maximum Wind Energy Production</i>	Pennbrook Middle School Carol Ward

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Exhibitor	Exhibit	School & Sponsor	
<i>Engineering</i>			
D0701	Keanan Alemao	<i>Exploring Aerodynamics</i>	Holicong Middle School Robert Meletti
D0703	Alaina Gassler	<i>Designing an Improved Grabber Device</i>	Avon Grove Charter School (upper) Paul Gassler
D0704	Paul Gill	<i>How Does Drumstick Material Affect Its Rebound?</i>	Bishop Shanahan High School Ann Massimi
D0705	Jacob O'Donnell	<i>A Wind-Wind Solution</i>	Bishop Shanahan High School Jerry O'Donnell
D0707	Kaylee Beener	<i>Using Solar Energy to Charge Electronics</i>	Coventry Christian School Josh Oliver
D0708	Vrishti Yadav	<i>Smart Electronic Compression Glove for Arthritis Patients</i>	Pennbrook Middle School Carol Ward
D0709	Hansen Smith	<i>Geo-Engineering Reflective Materials Used to Reduce Air Conditioning</i>	Valley Forge Military Academy Lori Smith
D0710	Claire Fader	<i>Plants to Paper: Is It a Durable Alternative?</i>	Bishop Shanahan High School Andrew Fader
D0712	Emma Engle	<i>Brainwave Technology For Control of 3-D Printed Prosthetics</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
D0713	Varun Pandian	<i>Measuring vital signs using the photoplethysmography technique</i>	Parkland High School Michael Post

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Exhibitor	Exhibit	School & Sponsor	
Environmental			
D0801	Phillis Wan	<i>The Effect of Nutrient Pollution on the Bioluminescent Intensity of Pyrocystis sp.</i>	Unionville High School Sandra Litvin
D0803	Mason Mills	<i>Marine Plastic Pollution: Islands of Trash</i>	SCSSD (Daretown) School Rick Hughes
D0804	Malavika Menon	<i>Ecofriendly Encapsulation for Efficient Use and Controlled Release into the Environment</i>	West Chester East High School Jayant Menon
D0806	Ryan Lange	<i>The Effects of Varying Nitrogen Concentrations on the Bioluminescence and Growth Rate of Pyrocystis fusiformis</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
D0807	Nina Feinberg	<i>Organic vs Conventional: Does Organic Produce Increase Fertility and Provide Health Benefits to Drosophila Melanogaster?</i>	Central High School Robert Herbstritt
D0808	Samantha Williams	<i>Effectiveness Of Floating Treatment Wetlands To Lower Nitrate Levels In Surface Water</i>	Woodstown High School Jennifer Sorbello
D0809	Sarah Beth Sandifer	<i>Comparison of Geotextiles and Grass on Erosion Control</i>	Germantown Academy Sarah Kesten
D0810	Moesharlynn Torto	<i>Affordable Archimedes: Testing different Quantities of charcoal to create low-cost water with Archimedes Function</i>	Vineland HS AMSA Marie Donato
D0811	Jazz Ch'ng	<i>Effects of Bacteria on Petroleum Phytoremediation by Poplar Trees</i>	Cherry Hill High School East Brian Vernachio
D0812	Reva Gandhi	<i>Bioskin: An innovative way of increasing shelf life and reducing plastic waste</i>	Parkland High School Michael Post
D0813	Yan Yu	<i>Solar Distillation: Turning seawater into freshwater</i>	Moravian Academy Gabriella Dee
Mathematics			
D0901	Ryan Clarici	<i>Efficiency in Determining Roots of Equations</i>	Upper Darby High School Roseann Burns
D0902	Kashti Satish Umare	<i>Using Fractals to Analyze Phenomenon of Nature</i>	Downingtown STEM Academy Shilpa Umare
D0903	Alexander Robertson	<i>Modeling Human Population Growth Using Differential Equations</i>	Holicong Middle School Robert Meletti
D0904	Matthew McWeeney	<i>An Analysis of How Modern Technology Has Directly Impacted Music: What Do the Numbers Say?</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
D0908	Amanda Guan	<i>The Effect of a Dynamic Rebalancing Strategy on Investment Portfolio Returns</i>	High Technology High School Michael Roche

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Exhibitor	Exhibit	School & Sponsor	
Medicine & Health			
D1003	Megan Lim	<i>Effectiveness of Concussion Headbands and Helmets</i>	Upper Dublin High School Dawn Edelman
D1004	Diamante Daniel	<i>Nanopillars to Protect Astronauts from Infection</i>	Wissahickon High School Bruce Rothenberger
D1005	Katherine Elmer	<i>Which Natural Home Remedy is Best for Preventing Growth of Candida albicans Compared to an Antifungal</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
D1006	Emma Berry	<i>The Pulse Behind The Strokes Of Swimming</i>	Woodstown High School Stephen Ordog
D1008	Suhan Neema	<i>The Effect of Vaping Flavorings on Planaria Regeneration</i>	Unionville High School Sandra Litvin
D1010	Rahela Dolha	<i>The Effectiveness of the Influenza Vaccine on Asthma Patients</i>	Souderton Area High School Karen Wolfe
D1011	Ty Walker	<i>Does Kinesiology Tape Enhance Athletic Ability?</i>	Woodstown High School Stephen Ordog
D1013	Kayla Heron	<i>How Much Do You Rely on Your Dominant Eye?</i>	Philadelphia Academy Charter High School Christine Dunne
D1014	Aishwarya Suresh	<i>Toxicological effects of electronic cigarette vapors on daphnia magna</i>	Parkland High School Michael Post
D1016	Michael Alchaer	<i>K-nearest and support vector liver cancer detection using (MRI's)</i>	Moravian Academy Gabriella Dee
Microbiology			
D1101	Elise Sperry	<i>Does the 5 Second Rule Really Exist?</i>	Woodstown High School Jennifer Sorbello
D1102	Christian Prasetyo	<i>The Effect of Excess Iron on Fruit Flies</i>	Central High School Robert Herbstritt
D1103	Jack Schuler	<i>Mold in the Bread Basket</i>	Pennsauken High School Tim Gilbride
D1107	Devyn Stek	<i>A 12-Month Surveillance Seasonality Study of Toxocara in Montgomery County Pa</i>	Villa Maria Academy High School Nicole Cronin
D1109	Mason Matich	<i>Natures Navigator: A First Step Towards A Fully Autonomous Car System Inspired By Slime Mold</i>	Holicong Middle School Robert Meletti
D1110	Joseph Ochieng	<i>PET Power</i>	Coventry Christian School Josh Oliver
D1111	Daud Tariq	<i>Effects of urea on algae anabaena</i>	Parkland High School Michael Post

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Exhibitor	Exhibit	School & Sponsor
Physics		
D1202 Dhaval Tantry	<i>The Absorption of Impact Force By Different Materials</i>	Holicong Middle School Robert Meletti
D1203 Katelyn Deal	<i>Does The Panel Count Of A Soccer Ball Affect The Distance?</i>	Woodstown High School Stephen Ordog
D1206 Leah Blasko	<i>The Science of Spin and Curve of a Soccer Ball</i>	Coventry Christian School Josh Oliver
D1207 David Styer	<i>Lasers</i>	Styer Homeschool Peggy Styer
D1208 Thomas Hagan	<i>An Analysis of What Makes A Chart-Topping Song</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
D1209 Chinmay Bapat	<i>The Effect of Earth's Rotation on Simple Harmonic Motion</i>	Methacton High School Robert Helm
D1210 Wisdom Ufondu	<i>Repairing holes in the Ozone Layer through the electrolysis of water</i>	Moravian Academy Gabriella Dee
D1211 Homare Yamashita	<i>Relationship between wheel inertia and rotational kinetic energy</i>	Parkland High School Michael Post

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Exhibitor	Exhibit	School & Sponsor
Zoology		
D1301 Summer Sakowicz	<i>Seasonal Community Shifts and Over Winter Populations of Fish and Crustaceans in Northern Barnegat Bay</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
D1302 Sophia Ortiz	<i>The Effects of Age on Female Fertility in Drosophila Melanogaster</i>	Central High School Robert Herbstritt
D1303 Erin Magee	<i>Artemia Response to Soy Lecithin and Cellulose Oil Dispersant</i>	Souderton Area High School Karen Wolfe
D1305 Harry McCobb	<i>Finding an Onset to Parkinson's Disease</i>	Central High School Robert Herbstritt
D1306 Tiffany Wong	<i>The Best Method of Anesthesia on Drosophila Research</i>	Central High School Robert Herbstritt
D1307 Madison Nichols	<i>Comparison of Mouth Bacteria Between Dogs that Feed on Dry Versus Wet Food</i>	Marine Academy of Technology & Environmental Science (MATES) John Wnek
D1308 Sofia Trone	<i>The Effect of Common Water Pollutants on Dugesia tigrina</i>	Avon Grove High School Richard Trone
D1310 Spencer Westover	<i>Effect of Industrial Toxins on C. elegans Behavior</i>	Germantown Academy Sarah Kesten
D1311 Hannah Elrod	<i>The Memory of Equine</i>	Salem County Vocational Technical School Kristen Redkoles Polk
D1312 Alyssa Calabrese	<i>What Are The Effects Of Different Energy Drinks On Daphnia's Heart Rate?</i>	Woodstown High School Jennifer Sorbello
D1313 Quinn Neill	<i>Does the Type of Food Used Affect the Growth of a Fish?</i>	The Marine Academy of Science and Technology (MAST) Liza Baskin
D1315 Riva Kaneria	<i>Effect of Ferula assa-foetida on the activity and mortality of Lycorma delicatula: A natural approach to controlling populations of Lycorma delicatula to mitigate crop devastations</i>	Parkland High School Michael Post
D1316 Evan Lan	<i>The effect of antioxidants on the regenerative properties of planaria</i>	Parkland High School Michael Post
D1317 Tachyuk Yang	<i>The effect of radiation on the regeneration rate of planarians</i>	Parkland High School Michael Post

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72nd Delaware Valley Science Fair (E)

Sponsored By DVSF

Exhibitor	Exhibit	School & Sponsor	
<i>Behavior & Social Sciences</i>			
E0103	Cecilia Zarinko	<i>Which Is More Flexible? Dancers 6-10 Or Dancers 11-15?</i>	Upper Pittsgrove School Danielle Taulane
E0104	Cassie Kempinski	<i>The Effectiveness of Subliminal Priming on Calming Eighth Grader's Stress Levels</i>	Holicong Middle School Carrie Bannon
E0105	Patrick Bellew	<i>Does Color Affect Memory?</i>	St. Aloysius Academy Mary Jo Bellew
E0106	Emma Allcorn	<i>Does Practice Make Perfect?</i>	Oldmans Township School Jason Winistorfer
E0107	Bryan Wu	<i>Lumosity Effectiveness on Brain</i>	Indian Valley Middle School Amy Welsh
E0108	Jiaray Shi	<i>What Color do People Associate with their Emotions?</i>	St. Peter's School Laura Bader
E0109	Helen Potts	<i>Simply Sensational: How the Different Senses Trigger Emotion</i>	Academy of Notre Dame de Namur Jessica Reid
E0110	Dylan Burke	<i>Wired Differently</i>	Arcola Intermediate School Sharon Branca
E0112	Darren Lin	<i>Eye Can't See It: Color Contrast in Reading</i>	Woodrow Wilson Middle School Martrice Donaldson
E0113	Vladimir Bondar	<i>The Effect of Using One to One Technology on Academic Performance and Information Retention</i>	William Allen Middle School Ken Lynch
E0114	Da'Najia Hicks	<i>Can You Make Your Body Talk?</i>	Galloway Township Middle School Stefanie Tripician
E0115	Sabrina Gambale	<i>Visual Conditions and Their Effect on Magic Eye Images</i>	St. Jude School Emily Loeffler
E0116	Aidan Moskowitz	<i>Which Color Catches Your Eye?</i>	Delran Middle School Richard Carmeron
E0118	Gabrielle Effendian	<i>Beat The Clock</i>	Meredith Elementary Christopher Leshock
E0119	Samantha Faith Capili	<i>Is There A Correlation Between Optical Illusion Susceptibility and Reading Speed?</i>	Toms River Intermediate East Sylvia Piznik

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Exhibitor	Exhibit	School & Sponsor	
Biochemistry			
E0201	Olivia Valania	<i>Got Gluten?</i>	Ursuline Academy Eileen Koenig
E0204	Brynn Galloway	<i>Generic vs. Brand Name Pain Relievers</i>	Philadelphia Academy Charter Grade School Joseph Eagan
E0205	Shriya Patel	<i>Which Form of Advil Dissolves the Quickest in Artificial Stomach Acid?</i>	Toms River Intermediate North Katie Keller
E0207	Jack Roarty	<i>The Sweet Science Of Making Marshmallows</i>	Immaculate Heart of Mary Nichol Carroll
E0208	Arushi Patel	<i>How Does Temperature Affect the Rates of Enzyme-Catalase Reactions?</i>	Manalapan-Englishtown Middle School Dawn Danza
E0209	Davida Dockwiler	<i>Enzyme Catalyzed Reactions</i>	Green Woods Charter School Erin Richards
E0211	Dylan Wen	<i>Does Chilling Onions Keep You from Crying?</i>	Arcola Intermediate School Sharon Branca
E0212	Daisy Maturo	<i>Does Your Medication Need More Conservation?</i>	Haddonfield Friends School Earlene Sorrento
E0214	Aidan Carlson	<i>Plant Clock</i>	Elsinboro Township School Joe Sarbello
E0215	Jake Frank	<i>The C in Veggies</i>	St. Aloysius Academy Micchlle Frank
E0218*		<i>Gelatin Flavors Affecting Setting Time</i>	St. Andrew School - Drexel Hill Steven Lacey

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Exhibitor	Exhibit	School & Sponsor
<i>Botany</i>		
E0303 Jared Bacon	<i>What Substances Will Keep Flowers Alive The Longest?</i>	Elsinboro Township School Joe Sarbello
E0304 Ella Holmes	<i>The Effect Of Different Fertilizers On Plants</i>	Ursuline Academy Eileen Koenig
E0305 Charlotte Scalora	<i>Influence Of Magnets On Plants</i>	Immaculate Heart of Mary Nichol Carroll
E0308 Khushi Thaker	<i>Nitrogen in the Soil, Will it Spoil?</i>	Indian Valley Middle School Amy Welsh
E0309 Mason Foxwell	<i>Grow With the Flow</i>	Milford Central Academy Jacqueline Powers
E0310 William Whiting	<i>Plants Can Reduce Oil. Why Can't We?</i>	Haddonfield Friends School Earlene Sorrento
E0312 Tyler Plumsy-Adams	<i>Does Different Natural Water Sources In Delaware Affect A Plant Health?</i>	Ursuline Academy Eileen Koenig
E0314 Kaitlyn Muller	<i>Does the Amount of Nitrogen in Fertilizer Affect Plant Growth?</i>	Toms River Intermediate North Katie Keller
E0315 Evan Cohen	<i>How Different Colored Light Affects Plants</i>	St. Peter's School Laura Bader
E0317 Zyion Chance	<i>Teenage Mutant Ninja Seeds</i>	ExCel Deena Osmer
E0320 Blaise Foster	<i>Soil vs. Hydroponics</i>	Haverford Middle School Danielle Berardoni
E0321*	<i>Circadian Rhythm Effect on Non-refrigerated Post-harvest Spinach's Nutritional Value</i>	Haverford Middle School Danielle Berardoni

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Exhibitor	Exhibit	School & Sponsor	
Chemistry			
E0401	Erynn Geiss	<i>Orange You Glad I Picked This Topic?</i>	Philadelphia Academy Charter Grade School Darlene Allison
E0402	Sienna Boos	<i>How Does The Substance Tested Using The Kastle-Meyer And Its Dilution Affect The Results Of The Test?</i>	Lenape Middle School Jennifer Yeager
E0403	Emily Barnum	<i>Polarity vs. Clarity</i>	Indian Crest Middle School Melissa Carnahan
E0404	Naimur Abir	<i>Energy Worth Your Salt</i>	Galloway Township Middle School Maddie Stapleton
E0406	Jolene Frey	<i>Is Sugar the Culprit of Tooth Decay?</i>	Abington Junior High School Ed Steinhardt
E0410	Julia Carroll	<i>A Boost Of BPA</i>	Immaculate Heart of Mary Nichol Carroll
E0413	Maura Read	<i>Soakin' It Up: The Fabric Dye-namic</i>	Ursuline Academy Eileen Koenig
E0414	Emily Morley	<i>Snap, Crackle, POP!</i>	Academy of Notre Dame de Namur Kathleen McTiernan
E0415	Audrey Houghton	<i>Salting The Road</i>	Newark Charter School Andrea Narvaez
E0416	Rebecca Chavez	<i>Rusty Fruits!</i>	Cherry Street School Heather Engler
E0417	Emily Hamill	<i>Super Surface Tension of Water</i>	Academy of Notre Dame de Namur Kathleen McTiernan
E0418	Casey Gannon	<i>"Wash" What You're Doing</i>	Lower Alloways Creek Township School Melissa Elwell
E0420	Chloe Wnek	<i>Does Type of Aluminum Affect Corrosion in Salt Water?</i>	Toms River Intermediate South Kayley Pagano

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Exhibitor	Exhibit	School & Sponsor	
Computer			
E0501	Owen Ramsdell	<i>WiFi Blockers</i>	Abington Junior High School Ed Steinhardt
E0503	Easton Dilks	<i>Identifying A User's Emotional State Through Machine Learning And Responding Empathetically With Voice Recognition Technology</i>	Fernwood Avenue Middle School Jeffrey Warner
E0504	Ava Ezzie	<i>Which Toothpaste Cleans and Whitens the Best?</i>	St. Andrew School - Drexel Hill Patricia Ezzie
E0505	Violet Schroeder	<i>Computer Programming to Encrypt and Decrypt a Message</i>	Newtown Middle School Dave Curry
E0506	Allison Lane	<i>What Materials Will Interfere With A Wifi Signal?</i>	Oldmans Township School Jason Winistorfer
E0508	Nicholas Berchuk	<i>Performance of Sorting Algorithms on different data types</i>	Holicong Middle School Robert Meletti
E0509	Gianna Pelura	<i>Computer Arithmetic</i>	Elsinboro Township School Joe Sarbello
E0511	Joshua Rhine	<i>How Effectively Can an Arduino Identify Different Denominations and Ages of Coins?</i>	Toms River Intermediate South Kayley Pagano
E0512	Lola Serrano-Martinez	<i>Heads Up, Phones Down!</i>	Meredith Elementary Christopher Leshock
E0514	Arthur Armaing	<i>The Strength of WiFi Signals</i>	French International School of Philadelphia Valerie Denny

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Exhibitor	Exhibit	School & Sponsor
<i>Earth & Space Sciences</i>		
E0601	Paul Ricchiutti <i>Activation Filtration</i>	St. Mary Interparochial School Mildred Cammisa
E0602	Carmella Werleman <i>Number the Stars</i>	Fernwood Avenue Middle School Jeffrey Warner
E0603	Alexandra Marroquin Espinoza <i>A Puzzling Parallax</i>	Quarter Mile Lane School Kathleen Sharp
E0604	Sean Marks <i>Darkness Falls Over All</i>	Haddonfield Friends School Earlene Sorrento
E0605	Angel Rivera-Burgos <i>The Power of Heat Is Right Under Your Feet</i>	Mariana Bracetti Academy Charter School Meredith McGlinchey
E0606	Malaika Bhullar <i>The Forceful Tides of Tidal Forces</i>	St. Mary Interparochial School Mildred Cammisa
E0607	Leo Moore <i>Which Type Of Soil is the Most Permeable?</i>	Abington Junior High School Ed Steinhardt
E0608	Wyatt Nelson <i>The Effects That Acid Rain Have on Limestone</i>	Abington Junior High School Ed Steinhardt
E0610	Michael Chollis <i>Can the pH Of Soil Be Changed By Rain</i>	Elsinboro Township School Joe Sarbello
E0611	Ranjit Rajapakse <i>Understanding How Windmills Work</i>	Holicong Middle School Robert Meletti
E0612	Shelby Manlove <i>Oyster Growth from Top to Bottom</i>	Sussex Academy Lauren Hvorecny
E0615	Juliet Cherry <i>To the Moon and Beyond</i>	Galloway Township Middle School Dandre Dennis
E0616	Alyssa Curry <i>Crater Conundrum: How Do Impact Craters Form?</i>	Tohickon Middle School Kenneth Hall
E0617*	<i>Radiation Admission Change Over Time</i>	St. Andrew School - Drexel Hill Steven Lacey

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Exhibitor	Exhibit	School & Sponsor
Engineering		
E0701	Anna Weatherwax <i>Hot Wheels or Cold Wheels</i>	Penndale Middle School Matthew Wendell
E0702	Bella Chiaravallo <i>Which Type of Insulation Keeps a Room the Warmest?</i>	Toms River Intermediate East Sylvia Piznik
E0703	Gabrielle Dube <i>Forecast Windy: With A Side Of Electricity</i>	Immaculate Heart of Mary Nichol Carroll
E0704	Sonia Leo <i>NextGen A/C - Reduce Pollution and Purify Air Outdoors Using an Air Conditioner</i>	Moorestown Upper Elementary School April Sullivan
E0705	Srijay Chenna <i>Fighting A Man-Made Epidemic</i>	H.B. DuPont Middle School Srihari Chenna
E0707	Noelle Klinger <i>The Look Of Sound</i>	Immaculate Heart of Mary Nichol Carroll
E0710	Sienna Tunnell <i>Producing Biofuel from Corn</i>	Sussex Academy Lauren Hvorecny
E0711	Arnav Tiwari <i>Thermal Electricity as a Renewable Energy Resource</i>	Arcola Intermediate School Sharon Branca
E0712	Kip Eron <i>How Does The Temperature Of Maglev Train Magnets Affect The Speed And Efficiency Of The Train?</i>	Holicong Middle School Carrie Bannon
E0713	Alycea McBride <i>Building Triboelectric Generators for Mechanical to Electrical Energy</i>	Carolyn McBride Carolyn McBride
E0715	Angelo DeRito <i>The Surprisingly Swift Solar-Powered Kart</i>	St. Mary Interparochial School Mildred Cammisa
E0716	Eva Kuri <i>What is the Effect of Reservoir Height on the Length of the Water Stream Produced?</i>	Toms River Intermediate South Kayley Pagano
E0717	Norah Mooney <i>What Material Will Protect Eggs The Best?</i>	Pittsgrove Township Middle School Andrea Wendell
E0718	Ellie Davis <i>Recovered Energy Lights the Way</i>	Sussex Academy Lauren Hvorecny
E0719	Daniel Styer <i>Heron's Fountain</i>	Styer Homeschool Peggy Styer
E0722	William Kessler <i>The Best Way to Build a Flying Car</i>	St. Peter's School Laura Bader
E0723	Emma Dunn <i>Effects of Various Structures for Managing Wave Energy</i>	Holicong Middle School Robert Meletti
E0724	Yori Candidi <i>The Magic of Static!</i>	Meredith Elementary Christopher Leshock
E0725*	<i>Determining the Most Efficient Parachute Design</i>	St. Dorothy School Mike Fohner

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Exhibitor	Exhibit	School & Sponsor
<i>Environmental</i>		
E0801	Eva Mussari	<i>Determining What Kind of Water is Safest to Drink</i> Classical Conversations of Buckingham Amy Lynn Criger
E0802	Sameer Menghani	<i>Mission CB: The Epidemic Caused by Cyanobacteria</i> AMSA at Johnstone Marie Donato
E0804	Gillian Lovett	<i>Which Method of Composting is Faster: Vermicomposting or Backyard Composting?</i> Jordan Road Elementary School Liz Lichtenstein
E0805	Bella Smookler	<i>Flowing Filters</i> Immaculate Heart of Mary Nichol Carroll
E0806	Peter Bauer	<i>Tap vs. Bottled And Filtered Water</i> Immaculate Heart of Mary Nichol Carroll
E0808	Jack Bergmann	<i>What Material For A Biodegradable Nerf Dart Flies The Farthest.</i> Oldmans Township School Jason Winistorfer
E0810	Eleni Murphy	<i>How Do Phosphates, Nitrates, and Fertilizers Affect Water Oxygen Levels?</i> St. Peter's School Laura Bader
E0811	Jordan Bechtold	<i>Plastic, Plastic Go Away, and Come Back Another Way</i> St. Mary Interparochial School Mildred Cammisa
E0812	Kaitlyn Culbert	<i>Can Duckweed Lower the Levels of Nitrates and Phosphates From the Polluted Waters of the Barnegat Bay?</i> Toms River Intermediate North Katie Keller
E0814	Ian Lee	<i>The Effects of Airplane Contrails on Temperature</i> The Episcopal Academy Hannah Bae, MD
E0815	Owen Blamey	<i>The Lanternfly Problem</i> Arcola Intermediate School Sharon Branca
E0816	Kushagra Goel	<i>Dye Sensitized Solar Cells Using Natural Dyes from a Combination of fruits and Vegetables</i> Henry C Beck Middle School Gary Haaf
E0817	Eliza Worrall	<i>Testing the Strength of Concrete Bricks with Varied Amounts of Plastic</i> Lenape Middle School Mark Hayden
E0818	Genevieve Hagen	<i>The Circle of Nutrients</i> Sussex Academy Lauren Hvorecny
E0819	Lily Hutt	<i>How Does the Population of Oysters in the Rehoboth Bay Affect the Turbidity of the Bay?</i> Sussex Academy Lauren Hvorecny
E0821	Saranya Anantapantula	<i>Methods for Removing Contaminants in Untreated Water</i> North Penn High School Melody Leithold
E0822	Analiiese Jacobson	<i>Get The Lead Out</i> Immaculate Heart of Mary Nichol Carroll

Delaware Valley Science Fairs 2020

72nd Delaware Valley Science Fair (E)

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Exhibitor	Exhibit	School & Sponsor	
Mathematics			
E0901	Chris Zheng	<i>Using Algorithms To Speed Solve The Cube Efficiently</i>	McCall School Scott Knoflicek
E0902	Reece Ralston	<i>Count the Rainbow</i>	Galloway Township Middle School Stefanie Tripician
E0903	Jack Holladay	<i>From Pitch to Hits</i>	Lower Alloways Creek Township School Melissa Elwell
E0904	Aashish Cheruvu	<i>Application of Machine Learning in Health Care</i>	Tamanend Middle School Erika Gamble
E0905	Justin Baum	<i>M & M's and Probability</i>	Abington Junior High School Ed Steinhardt
E0906	Aliya Nagaria	<i>Do You Have a Better Chance of Rolling a Sum of 16 with 3 Dice or 5 Dice?</i>	Toms River Intermediate North Katie Keller
E0907	Monica Levis	<i>Epidemiological Modeling of the 2019 Novel Coronavirus</i>	Levis Homeschool Barbara Ann Levis
E0908	Lucas Berg	<i>Probably Probability</i>	French International School of Philadelphia Valerie Denny
E0909	Theo Miksa	<i>Do You Measure Up: A Predictive Swimming Model based on Trend Analysis</i>	Holicong Middle School Carrie Bannon
E0911	Ezra Tapper	<i>The Problem^{^3}</i>	Haddonfield Friends School Earlene Sorrento

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72nd Delaware Valley Science Fair (E)

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Exhibitor	Exhibit	School & Sponsor
<i>Medicine & Health</i>		
E1001 Gabriella Fox	<i>Risky Business</i>	Galloway Township Middle School Maddie Stapleton
E1004 Audrey Tyler	<i>Lighten Your Load</i>	Oldmans Township School Jason Winistorfer
E1005 Oscar Lorenzi	<i>Radioactive Effects on the Body</i>	French International School of Philadelphia Valerie Denny
E1006 Valentina McColgan	<i>Does Exercise Improve Blood Flow in Peripheral Artery Disease?</i>	Philadelphia Academy Charter Grade School Darlene Allison
E1007 Kennedy Pavlekovich	<i>Family Fingerprints</i>	Newark Charter School Andrea Narvaez
E1009 Hannah Sam	<i>Analyzing Which Fabric has the Best UV Resistance during Different Times of the Day</i>	Holicong Middle School Robert Meletti
E1010 Kyle Lockhead	<i>Overcoming Physical Challenges</i>	Indian Valley Middle School Amy Welsh
E1011 Victoria Lupan	<i>Depth Perception</i>	Haddonfield Friends School Earlene Sorrento
E1012 Stephanie Boys	<i>Lefties Are Alright</i>	Newark Charter School Errin Halfen
E1013 Harry Kane	<i>One "Gel" of a Delivery</i>	St. Mary Interparochial School Mildred Cammisa
E1014 Srilekha Mamidala	<i>The Effect of Secondhand and Thirdhand E-cigarette Vapor on the Geotaxis and Olfaction of Larval and Adult Drosophila melanogaster</i>	Garnet Valley Middle School Gyaneswar Mamidala
E1015 Riana Dion	<i>How Does Age Affect Memory?</i>	Holicong Middle School Robert Meletti
E1017 Simon Betancort	<i>The Germinator Project</i>	ExCel Deena Osmer
E1019 Claire Keach	<i>Grimy Games</i>	Newark Charter School Andrea Narvaez
E1020 Taylor Vaugh	<i>That Burns! A Holistic Approach to Heartburn Relief</i>	Galloway Township Middle School Stefanie Tripician
E1021 Emily Evearts	<i>The Curious Chemicals Behind Moissurizers</i>	Haddonfield Friends School Earlene Sorrento

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Exhibitor	Exhibit	School & Sponsor	
Microbiology			
E1102	Sierra Sakaguchi	<i>Bursting Bacteria</i>	Oldmans Township School Jason Winistorfer
E1103	Katelyn Little	<i>You've Got a Friend in Yeast</i>	Pittsgrove Township Middle School Andrea Wendell
E1104	Kaelyn Stek	<i>How Much Bacteria will Food Pick Up on Different Surfaces?</i>	St Teresa of Calcutta Elaine Loughnane
E1105	Griffin Blokker	<i>How Do Food Preservatives Affect The Growth Of Microorganisms?</i>	Lenape Middle School Jennifer Yeager
E1106	Steven Sorokin	<i>No Time for Bacteria</i>	Haddonfield Friends School Earlene Sorrento
E1107	Lidia Hetzel	<i>The Effectiveness of Hand Washing VS A Facial Brush</i>	Folsom Elementary School Christopher Roth
E1108	Sam Garcia	<i>Different Ways to Kill Bacteria</i>	Haddonfield Friends School Earlene Sorrento
E1109	Lena Johnson	<i>The Power of Soil</i>	Penn Alexander School Charles Foster
E1110	Rong Xu	<i>Amount of Carbon Dioxide Production in Yeast from Different Monosaccharides and Disaccharides</i>	Holicong Middle School Carrie Bannon
E1111	Malo Alanio	<i>Would You Like Salt or Sugar in Your Bread?</i>	French International School of Philadelphia Valerie Denny
E1112	Lauryn Cowles	<i>Germ Madness</i>	ExCel Deena Osmer
E1113	Aidan Federico	<i>How will the Time that Food is in Contact With a Kitchen Floor Affect Bacteria Growth?</i>	Alder Avenue Middle School Jeffrey Warner

Delaware Valley Science Fairs 2020

72nd Delaware Valley Science Fair (E)

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Exhibitor	Exhibit	School & Sponsor
<i>Physics</i>		
E1201	Zachary Pressler <i>To Up Up and Away!</i>	Pressler Home School Hope Pressler
E1203	Zoe Steinmetz <i>Is a Technical Swimsuit More Effective than a Non-Technical Competition Swimsuit?</i>	Philadelphia Academy Charter Grade School Joseph Eagan
E1205	Ian Fahroe <i>Evaporation Extravaganza</i>	Immaculate Heart of Mary Nichol Carroll
E1206	Dominic Bunda <i>Electromagnetic Strength</i>	St Teresa of Calcutta Elaine Loughnane
E1207	Sophia Longo <i>Secrets Of Robin Hood</i>	Pittsgrove Township Middle School Emily MacNeill
E1208	John Sojan <i>Optimal Efficiency of Winglets</i>	Holicong Middle School Carrie Bannon
E1210	Jaden Jones <i>Going the Distance</i>	Galloway Township Middle School Maddie Stapleton
E1211	Esmeralda Oloarte <i>Temperature vs Magnetism</i>	ExCel Deena Osmer
E1213	Elijah Turner <i>Water Splitting</i>	Haddonfield Friends School Earlene Sorrento
E1214	Dawn Ong <i>Battle of the Bottles</i>	Ong Homeschool Zabrina Ong
E1215	Hailey Vandenbraak <i>What Keeps Your Body Warm?</i>	Ursuline Academy Eileen Koenig
E1216	Layla Mahani <i>It's Raining Solids!</i>	Ursuline Academy Eileen Koenig
E1219	Helen Talavera <i>What Liquid has the Greater Viscosity?</i>	Mannington Township School Destiny Leoni
E1220	Kevin Conway <i>What Bounces Best? The Effect of Different Elemental Gasses and Temperature on the Elasticity in Basketballs Bounce</i>	Conway Home School Joseph Conway
E1221	Gabriella Kravchuk <i>The Pressure is On. Or is it?</i>	Abington Junior High School Ed Steinhardt

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72nd Delaware Valley Science Fair (E)

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Exhibitor	Exhibit	School & Sponsor
Zoology		
E1301	Victoria Wilson <i>A Scratchy Situation</i>	Milford Central Academy Jacqueline Powers
E1302	Caeli Mcalonan <i>Hold Your Horses!</i>	Ursuline Academy Eileen Koenig
E1303	Drini Hamza <i>Want a Whole New Head?</i>	Joseph Greenberg Elementary Kristin Morris
E1304	Mary Kate Daniel <i>Bring on the Brine</i>	Academy of Notre Dame de Namur Kathleen McTiernan
E1307	Collin Kroll <i>What Type of Bait Attracts More Deer?</i>	Oldmans Township School Jason Winistorfer
E1309	Morgan Maslanka <i>Dolly Antics</i>	Galloway Township Middle School Stefanie Tripician
E1310	Aubrey Edwards <i>A Walk On The Wild Side</i>	Immaculate Heart of Mary Nichol Carroll
E1311	Morgan Johnson <i>Does Artificial Light Affect Laying Hens?</i>	Elsinboro Township School Joe Sarbello
E1312	Naomi Figueroa <i>Speedy Snails</i>	Haddonfield Friends School Earlene Sorrento
E1315	Analise Myles <i>Birds of a Feather Don't Always Fly Together</i>	Galloway Township Middle School Stefanie Tripician
E1316	Angelia Koesmadjie <i>Which Soil Habitat Do Earthworms Love The Most?</i>	McCall School Scott Knoflicek
E1317	Hailey Wood <i>Investigating Equine Oral Bacteria</i>	St. Jude School Emily Loeffler

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72nd Delaware Valley Science Fair (E)

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Exhibitor	Exhibit	School & Sponsor
<i>Team Projects</i>		
E1401 Darvin Pierre Zyaira Sanders	<i>Soil Stress</i>	The Philadelphia Charter School for The Arts & Sciences Amanda Taggart
E1402 Jonathan Santiago Erick Velasquez	<i>Bacteria on Your Food</i>	ExCel Deena Osmer
E1403 Kaelin Brannick Vaishnavi Sakthi	<i>Super Slime - True Or False?</i>	Newark Charter School Andrea Narvaez
E1404 Riley Budenas Morgan Rodemann	<i>Does Gender Have An Effect On The Stroop Effect?</i>	Toms River Intermediate North Katie Keller
E1407 Dayvey Gordon Bailey Maloney	<i>Dimes vs Dollars</i>	Immaculate Heart of Mary Nichol Carroll
E1408 Armaan Gupta Gia Gupta Karina Gupta	<i>Futuristic Model of Energy Self Sustainable Coastal Village</i>	Rosa International Middle School Kavita Gupta
E1409 Yakeline Cruz Santiago Estefania Ramos Mendoza	<i>Flowers vs Dishsoap</i>	ExCel Deena Osmer
E1410 Rupert Swartz Sudhir Yelamarthy	<i>The Use Of Ash And Oak As A Substrate For Growth Of Edible Mushrooms</i>	Tamanend Middle School Erika Gamble
E1411 Amanrai Kahlon Veer Pahwa	<i>The Best Ball For Your Buck</i>	The Independence School Jessie Copeland
E1412 Adrian Bolinas Kaeden Fleming Justin Flenner	<i>The Effect Of Engine Placement On Car Performance</i>	Immaculate Heart of Mary Nichol Carroll
E1413 Emerson Fallat Madeline Krohn	<i>The Effects of Different Milk Types on Taste</i>	Toms River Intermediate South Kayley Pagano
E1414 Deven Butani Rafe Cultrara Advait Wattal	<i>Outstanding Oil Absorbents</i>	William Allen Middle School Ken Lynch
E1416 Michael Gioia James Kennedy	<i>Power Foods</i>	Immaculate Heart of Mary Nichol Carroll
E1417 Hannah DeWitt Ryann Foote	<i>Hand Soap vs. Hand Sanitizer</i>	Elsinboro Township School Joe Sarbello
E1419 Hannah Newport Nathaniel Newport	<i>EZ Read with Dyslexic Fonts</i>	William Allen Middle School Ken Lynch

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72nd Delaware Valley Science Fair (E)

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Exhibitor	Exhibit	School & Sponsor	
Consumer Science			
E1501	Ava Staib	<i>Coke vs. Pepsi: Put To The Coldness Test</i>	Ursuline Academy Eileen Koenig
E1502	Vega Mick	<i>Food of the Future - The Science of Spherification</i>	Galloway Township Middle School Stefanie Tripician
E1503	Sophia Sorrells	<i>It's a Waterful Life</i>	Ursuline Academy Eileen Koenig
E1504	Kaitlyn Phan	<i>pH Levels of Regular vs. Diet Soda</i>	Arcola Intermediate School Sharon Branca
E1506	Ethan Steinmetz	<i>Which Brand of Fishing Line is the Strongest?</i>	Philadelphia Academy Charter Grade School Darlene Allison
E1507	Jaime Deal	<i>Which bottle keeps water cold the longest?</i>	Upper Pittsgrove School Danielle Taulane
E1508	Madeline Slaughter	<i>How Do Various Fabrics React To Flames?</i>	Holicong Middle School Robert Meletti
E1509	Abigail Cavanaugh	<i>Antioxidants</i>	Haddonfield Friends School Earlene Sorrento
E1510	Catherine Greenwald	<i>How Time Affects the Depth of Color of Naturally-Dyed Fiber</i>	Holicong Middle School Robert Meletti
E1511	Danna Armenta Escamilla	<i>What's the Quickest Way To Get A Bottle of Water Cold?</i>	Broad Street School Kristi Lancaster
E1512	Elsa Thomas	<i>Which Type of Insulation is Better?</i>	Pennfield Middle School Jennifer Beach
E1513	Audrey McGowan	<i>The Solution to the Sharpie Problem</i>	Galloway Township Middle School Stefanie Tripician
E1516	Asha Chakrabarti	<i>Evaluating and Reducing Electromagnetic Radiation from Common Household Devices</i>	Moorestown Upper Elementary School April Sullivan
E1517	Charlee Ahearn	<i>The Effectiveness of Cleaning Agents on Teeth</i>	Green Woods Charter School Erin Richards

Delaware Valley Science Fairs 2020

72nd Delaware Valley Science Fair (T)

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Exhibitor	Exhibit	School & Sponsor
Team Projects		
T1401	Riya Chaturvedi Saarth Chaturvedi Vijay Ramu	<i>Purification and Isolation of Novel Antimicrobial Compounds</i> University of Pennsylvania Yajamana Ramu
T1402	Megan Brooks Mac Bryan Brianna Shields	<i>The Effect of Different Types of H2O on Poa pratensis</i> Salem County Vocational Technical School Kristen Redkoles Polk
T1403	Patrick Carbone Chenkai Mao James McCullough	<i>Effects of UV light and Freezing Temperatures on PET Disposable Water Bottles and Plastic Reusable Water Bottles</i> Malvern Preparatory School Agnese Abate
T1404	Alessandro Iaia Nicholas Kulda	<i>Effects Of UV Light On Cellular Growth</i> Charter School of Wilmington Rick Schuder
T1405	Sindhu Narayan Abigail Spangler	<i>The Effect Of Age And Gender On Overt And Self Perceived Frustration</i> Charter School of Wilmington Michael Katz
T1406	Molly McAtee Morgan Murphy	<i>How Basic is Too Basic for Worms?</i> Villa Joseph Marie High School Joe Sheenan
T1407	La'Jourah King Primisha Patel	<i>The Effect of Different pH Concentrations of Soil on the Growth of Pisum Sativum</i> Vineland HS AMSA Miriam Jamil
T1408	Lina Lin Sanjana Samudrala	<i>Ginkgo Biloba and its Effect on Natural Sunscreen</i> Central Bucks High School- East Judy Elinow
T1410	Jason Pagegala Bernard Scott	<i>Will It Live?</i> Bishop Shanahan High School Margaret Scott
T1411	Richard Li Addison Liu	<i>Leveraging Polymer Immiscibility in Additive Manufacturing: Sequestration of Graphene Nanoplatelets within a Phase-Separated PLA/iPP Polymer Matrix for Optimized Mechanical and Thermal Performance</i> Unionville High School Stanley Liu
T1413	Doreen Valmyr Eddie Wang	<i>The Relationship of Phage Concentration to E. coli Mortality</i> Central High School Robert Herbstritt
T1414	Yash Prabhu Brandon Vu	<i>Detecting Firearms Using Computer Vision and Machine Learning</i> North Penn High School Melody Leithold
T1416	Jordyn Flaherty Jesse Herdman	<i>We Bean Knew (the Effect Of Population Density On Growth And Survival Of Mung Bean)</i> Charter School of Wilmington Jennifer Toner
T1417	Abigail Evans Grace Profy	<i>Destruction of Hair</i> Villa Joseph Marie High School Molly Kenny
T1418	Ummayh Siddiqua Margaret Smith	<i>The Digestion of Biodegradable Plastics</i> Upper Darby High School Roseann Burns

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72nd Delaware Valley Science Fair (T)

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	Exhibitor	Exhibit	School & Sponsor
T1420	Shayla Modi Amrutha Veeramachiani	<i>Testing The Effectiveness Of Disinfectant On Ecoli</i>	Charter School of Wilmington Rick Schuder
T1421	Jessica Baek Brianna Baldwin	<i>Reducing the Impact of Oil on Benthic Wildlife</i>	North Penn High School Melody Leithold
T1425	Luke Kryka Olivia MacMillan Colleen McCann	<i>Herd Mentality</i>	Archmere Academy Glenn Hartman
T1428	Claire Brodish Alexa Horvath	<i>The Production of Cellulosic Ethanol Derived From Grass</i>	Central Bucks High School- East Judy Elinow
T1429	Kenan Kanopka Jr. Joshua Konschnik Juston Moritz	<i>Biofeedback therapy on the rate of cardiorespiratory recovery from aerobic exercise</i>	Freedom High School Graceanne Ruggiero
T1431	Shivam Chand Sebastian Jaskowski Belinda Yeung	<i>The dissolution rates of over-the-counter analgesics in stomach acid</i>	Freedom High School Graceanne Ruggiero
T1432	Samuel Rodrigues Andrew Younes	<i>Non-Electric Water</i>	Nazareth Area High School Lindsay Hoff