2024 Region V Science & Engineering Fair Winners. Congratulations to all students, teachers and mentors for their hard work!							
Name	School	Project Title	Special Awards				
1st Place Sar	nofi Specialty Care Grand Prize	. The winner will advance to the MA State Science & Engineering Fair	in April, and will				
represent Region V at the International Science and Engineering Fair in Los Angeles, CA., May 11-17							
		How does the Species of Microalgae Reduce the Effects of Carbon					
Anna Li	North Quincy High	Dioxide in Seawater on Calcium Carbonate					
1st Place A	ward Winners - These student	s advance to the MA State Science & Engineering Fair on April 5th at G	illette Stadium				
		Identifying a Novel, Inexpensive, and Noninvasive Biomarker for	NE Branch American				
		Fibromyalgia: Using Metabolomics, Genomics, and a Drosophila	Society for				
Pranav Addanki	Canton High	melanogaster Model	Microbiology				
		Dopaminergic synapse organizing molecules and their implications for					
Remy Kim	Winsor School	Parkinson's Disease					
		Advanced 3D Deep Transfer Learning for Multistage Alzheimer's					
Kuai Alex	Newton North High	Disease Diagnosis					
		Inhibition of melanin synthesis and anti-inflammatory effects of					
		Leuconostoc mesenteroides derived exosomes separated from					
Husang Lee	Newton South High	Camellia japonica flower					
	Martha's Vineyard Regional	Developing an Environmental Sensor, Designing, and Building a					
Elliot Stead	High	Sounding Rocket to Contain It					
			MA Chemistry &				
Max Donovan	Falmouth Academy	Determining the Sustainability of Different Wood Pellet Types	Techology Award				
			AMD Engineering				
Huiyi Wen	Tabor Academy	Sustainable and Cost-Effective Cactus-Inspired Fog Collecting Kirigami	Excellence Award				
2nd Place A	ward Winners - These student	s advance to the MA State Science & Engineering Fair on April 5th at G	illette Stadium				
	Dennis-Yarmouth Regional		Environmental				
Molly Gedutis	High	Insecticide Resistance and Efficacy in Culex Mosquitoes on Cape Cod	Protection Agency				
		Using the B6Ei.LT-Y* mouse model to investigate the contribution of					
		sex chromosomes within the Kiss1+ neurons of the preoptic	Office of Naval				
Isabella Adarme	Newton Country Day School	hypothalamus.	Research Award				
			Office of Naval				
Hayim Sims	Maimonides School	Nanoparticle Guided Synthesis of Size-Tunable Photonic Crystals	Research Award				

Carachura Kina			Office of Naval
Ganghun Kim	The Fessenden School	On the properties of quadrilaterals determined by triangle centers	Research Award
Yuyao Wu	Thayer Academy	Bionic Insect Jumping Device	US Airforce Award
		Preventing Abortive Spinal Surgery using a Novel Machine Learning	
Yaniv Taussky	Wellesley Sr High	Classification of Posterior Thoracolumbar Instrumentation Systems	US Airforce Award
			MA Life Science
Sam Lizotte	Brockton High	Using Machine Learning to Detect Alzheimer's Disease in MRI Scans	Award
Ludovica Melodia	Newton Country Day School	A Model for Smarter Urban Intersections	US Airforce Award
		Identification of Potential Biomarker and Survival Analysis for	
		Hepatocellular Carcinoma Utilizing Bioinformatics Approach: An	
Agastya Sarmah	Sharon High	Investigation Utilizing Cancer Datasets	US Airforce Award
Zimon Li	Rivers School	RBC Folate's Effect on Cardiovascular Disease	
		Investigating the Effect of Varying Pigment to Binder Ratios on Paint	
Nicholas Ramos	Barnstable High	Performance	
Aishwaryalakshmi		Inhibiscore: Utilizing Artificial Intelligence to Discover a Promising ERα-	
Saravanan	Sharon High	Targeted Breast Cancer Therapy	
3rd Place Av	ward Winners - These student	s advance to the MA State Science & Engineering Fair on April 5th at G	illette Stadium
			Assocation for
Michelle Chen	North Quincy High	Balance in Carbonate Convergent Waves	Women Scientist
		Silent Protectors: The Covert Transformation of Angiogenin in Cancer	
Vera Medvedeva	Millis High School	Defense	
		Filtration Capabilities of different chemicals for PFOAs and PFAS	
Avaneesh Mohan	Sharon High	molecules	
		Predictions of Massachusetts Coastal Vertebrate Biodiversity under	
Zhiyang Zhong	Tabor Academy	Global Warming and Ocean Acidification Based on CMIP5 Models	
Christian Bunge,			National Oceanic and
Maxwell Fernald,	Center for Student Coastal	Seagrass Wasting Disease's effect on eelgrass under environmental	Atmospheric
Finn Yemini	Research	stressors such as salinity	Administraion
	Noble And Greenough	Machine Learning Approaches to Enhance Inverse Kinematics in	
Christopher Yoo	School	Robotics	
Jack Li, Jayson		Selection of Green and Sustainable Bio-Based Solvent by Artificial	
Wang	Wellesley Sr High	Intelligence for Pharmaceutical Research and Process Development	

Yvangi Jacques	Brockton Public Library	A Sound Approach to Attracting or Repelling Pollinator Insects	
	Noble And Greenough		
Derek Jin	School	Energy-Efficient Egocentric Video Recognition	
Andrew Kan,	Noble And Greenough	ViMGuard: Automating Fact-Checking in Short-form Video Content	
Christopher Kan	School	with Video Masked Autoencoders for Misinformation Guarding	
			NASA Earth Systems
Kyle Denny	Brockton Public Library	Biochar's Potential for Mitigating Climate Change	Science Award
		DebateGPT: Assessing the Accuracy of Context-Dependent Generative	
Vuyuan Huang	The Winsor School		
Yuyuan Huang		Al Responses to American Parliamentary Debate Queries	
Erin Bourque			
Regan Montague	Newton Country Day School	The Effect of Sunscreens on the Mortality Rate of Daphnia magna	
Ella Rosenthal	Falmouth High	Biofuel Potential of Cape Cod Seaweeds	
		Shuffle Science: Analyzing Machines, Riffles, and Algorithms in Card	
Jamison Ballou	St. John Paul II High School	Shuffling	
		Synthesizing and Optimizing Biodegradable Pectin-Manuka Honey	
		Hydrogels for Transcutaneous Electrical Nerve Stimulation (TENS)	
Marko Mano	North Quincy High	Therapy and its Applications in Tissue Engineering	
Maisie Chase,		The Impact of Invasive Phragmites on Soil Carbon Density, and	
Celia Suttles	Falmouth High	Hydraulic Conductivity	
Taleena Gonneea	Falmouth Academy	Observing the Effect of Microplastics on Zebrafish Macrophages	
	· ·	Chemical Profiling of the Triglycerides in Two Species of Microalages	
Susan Evans	North Quincy High	Using a Green Extraction Method	
Luke Okoshi-			
Michel	Falmouth Academy	Investigating the Impact of Oyster Aquaculture on Water Quality	
Honorable N	Mention Award Winners - Wh	ile these students do not advance to MSEF we feel their projects deser	ve recognition.
		An Innovative Assessment of the Transgenerational Effects of Extreme	
Andrea Tang	Newton South High	Temperatures on Children's Health	
Willow Wakefield	Falmouth Academy	The Effects of Alcohols on Tardigrades and C. elegans	

Robert Simpkins	Falmouth High	Dusty Plasma	
	Dover-Sherborn Regional	Computational Analysis of Cell Type-Specific Transcriptional Dynamics	
Elaine Zhang	High	in Major Depressive Disorder	
Brian Zhang	North Quincy High	The Effect of Ethanol Solvent of Various pH on Beetroot Dye	
Elmeria Cheung	North Quincy High	Decomposition of Different Bioplastics	
		How Do Various Forms of Sugar Affect Saccharomyces cerevisiae's	
Maya Tittel	Quincy High	Growth?	
		Observing the Visible Spectrum after the Interference of Water,	
Belle Li	North Quincy High	Isopropyl Alcohol, and Acetone	
David Aubrey	Falmouth Academy	Gumby Power: A Novel Wave Energy Converter	
Lucas DeFilippo,			
Feichen Li, Kyle			
Wu	Weston High	Digital Night Vision Goggles	
Fany Benitez,	Southeastern Regional		
Skyla Sturtevant	Vocational Technical	What's the Buzz on Bee Pan-Trap Preference?	
Catherine			
Reinhart, Abby			
Taylor	Hanover High	How does Flour Effect Baking Cookies?	