Al Kalfus Long Island Math Fair
February 26, 2016
Preliminary Round
Hofstra University

Long Island Math Fair Committee

Joyce Bernstein, Alan Blayne, Christine Brown, Jerry Chen, Ian Dunst, Arulappah Eswarathasan, Martha Green, Lynda Hennig, Lucille Hunter, Richard Hunter, Nat Janoff, Marlene Kalfus, M.C. Kim, Maxine Lifshitz, Christine Pette, Joseph Quartararo, Paulette Quartararo, Jane Sessler, Sylvia Silberger, Terry Springer, Charles Windwer

In Memory of our Founder Alfred Kalfus

Long Island Math Fair Sponsors

Hofstra University and the Suffolk County Mathematics Teachers Association, the Nassau County Mathematics Teachers Association, and the Nassau County Association of Mathematics Supervisors

Program

Hofstra University

Multipurpose Room- grades 7, 8, 9 and Teams

Little Theatre- Grade 10, 11

Students Check Room Assignments: 3 pm

Judging Preliminary Round: 3:30 pm

Building Key

A	Adams	23	BA	Barnard	29	BR	Breslin	37
BRW	Brower	41	CHP	Berliner Hall	59	D	Davison	28
HA	Hauser	25	HE	Heger	43	HGN	Hagedorn Hall	
L	Lowe	24	M	Monroe	60	MA	Mason	44
R	Roosevelt	34	S	Starr	62	SC	Student Cntr	13

Special Thanks

We would like to give special thanks to Arulappah Eswarathasan and Sylvia Silberger for all the on-site planning at Hofstra University for this year's Fair.

Judge's Name		School
Abidor	Andrea	The Wheatley School
Alt	Matthew	HAFTR
Ambrose	Maryrose	The Wheatley School
Ardilio	Suzanne	East Meadow High School
Arengo	Sebastian	Long Beach Middle School
Armstrong	Lillian	Jericho Schools
Barrera	Christina	Manhasset High School
Basile	Trish	Herricks High School
Bernhardt	Laura	Kennedy High School POB
Berrios	Melinda	Hicksville High School
Bostrom	Michael	Syosset High School
Bowen	Christian	Kennedy High School POB
Breckner	Steve	Nassau Community College
Bricker	Melissa	Oceanside High School
Bruns	George	Nassau Community College
Burt	Alexander	Friends Academy
Callaha	Chris	Roslyn High School
Cannata	Matt	Herricks Middle School
Capella	Nicole	South Woods Middle School
Carman	Mark	Roslyn High School
Cascone	Chris	Northport High School
Cashman	Julia	The Wheatley School
Castillo	Belen	Roslyn Middle School
Cetron	Jason	Hicksville High School
Chae	John	Syosset High School
Chiang	Fei	Nassau Community College
Chiarenza	Jillian	Friends Academy
Coe	Russell	Suffolk Community College
Cote	Maria	Herricks High School
Curran	Ilene	Holy Trinity High School
Decicco	Michele	Herricks Middle School
DeMarinis	Matt	Jericho Schools
DiMeola	Amy	North Shore Middle School
DiVenuto	Ray	Schreiber High School
Edelman	Marc	Roslyn High School
Faibish	Renee	HAFTR
Falcone	Tiffany	North Shore Middle School
Faraci	Michael	Manhasset High School
Filippi	Mark	Kennedy High School POB
Fina	Joe	The Wheatley School
Finn	Tara	Kennedy High School POB

Judge's Name		School
Fonseca	Loretta	Roslyn Middle School
Frayler	Kristin	North Shore Middle School
Gallagher	Nancy	Garden City High School
Gallagher	Tina	Schreiber High School
Gerver	Michael	North Shore High School
Gerver	Rob	North Shore High School
Getchell	Donna	Garden City High School
Giamundo	Jennifer	Thompson Middle School
Giunta	Natalie	East Meadow High School
Gizzi	Gabriella	Roslyn Middle School
Goldbeck	Dan	Syosset High School
Gorman	Bryan	Schreiber High School
Governale	Tim	South Woods Middle School
Greene	Nora	North Shore Hebrew Academy
Greenwell	Raymond	Hofstra University
Gross	Jay	Manhasset High School
Halpin	Pam	North Shore Middle School
Hart	Stacy	Herricks Middle School
Hauser	Elizabeth	Syosset High School
Haush	Karen	Jericho Schools
Hausler	Dana	Herricks Middle School
Hawkins	Annmarie	Hicksville High School
Hayes	Peter	ICPS
Heron	John	Oceanside Middle School
Heyligers	Alana	Doshi Stem Institute
Ho	Trisha	Herricks High School
Huntley	Renee	Roslyn Middle School
Janoff	Nat	Math Fair Committee
Jones	Derek	Manhasset High School
Kadri	Kadir	Herricks High School
Kahn	Jill	Jericho Schools
Kalish	Arthur	ICPS
Karvelas	Mary	Lawrence Middle School
Keenan	David	North Shore Middle School
Kelly	Eileen	Oceanside High School
Kessler	Ellen	Doshi Stem Institute
Khan	Alyssa	Herricks Middle School
Kirkup	Debbie	Kennedy High School POB
Koebel	Tara	Clarke High School
Koenig	Rich	Manhasset High School

Judge's Name		School
Kohart	Adam	Roslyn Middle School
Kriegstein	Helene	Jericho Schools
Kristoff	Tracy	MacArthur High School
Kuntz	Karen	Sacred Heart Academy
Labrocca	Ron	Hicksville High School
Lavin	Roselle	Holy Trinity High School
Lee	Soowook	Roslyn High School
Leo	Dianna	South Woods Middle School
Lesser	Jeff	The Wheatley School
Libassi	Mindy	West Suffolk Boces
Litvack	Alison	Herricks High School
Lombardi	Danielle	South Woods Middle School
Loughran	Rosaleen	Roslyn High School
Lynum	Carina	Thompson Middle School
Mackin	Cathy	North Shore High School
Mackler	Hayley	Oceanside Middle School
Marinucci	Nicole	Oceanside High School
Masini	Teresa	Manhasset High School
Maurer	Tara	Oceanside Middle School
Maus	John	North Shore High School
McGlynn	Cassandra	Woodmere Middle School
Meckley	Christina	Woodland Middle School
Medina	Jackie	Manhasset High School
Milana	Nancy	Manhasset High School
Monioudis	Nick	Oceanside High School
Morris-Gill	Colleen	Holy Trinity High School
Morrow	Josh	Hicksville High School
Murthy	Geetha	Herricks Middle School
O'Donnell	Marylou	Kennedy High School POB
Oehrlein	Helen	Portledge School
O'Hara	MaryRose	Holy Trinity High School
Pace	John	North Shore Middle School
Pasetti	Carly	Oceanside Middle School
Patriarco	Erica	The Wheatley School
Pellett	MaryClare	Holy Trinity High School
Perlman	Carol	Doshi Stem Institute
Persaud	Christopher	Elmont Memorial High School
Petras	Laura	Manhasset High School
Pillar	Emily	Schreiber High School

Pisciotta	Deanna	Woodmere Middle School
Polan	Sondra Lynn	East Meadow High School
Reiss	Cara	Freeport High School
Reiss	Cara	Freeport High School
Ring	Paul	Clarke High School
Rogala	Brooke	North Shore High School
Ruczaj	Brittany	MacArthur High School
Ruthkowski	Brian	Northport High School
Scarisbrick	Colleen	Lawrence Middle School
Schorn	Alan	Great Neck North High School
Schroeder	Mallory	North Shore Middle School
Scott	Erik	Roslyn Middle School
Shannon	Melissa	Jericho Schools
Silverstone	Robert	Hofstra University
Sinclair	Marissa	Jericho Schools
Skiadas	Katarina	The Wheatley School
Smith	Jim	Oceanside High School
Smith	Kevin	Kennedy High School POB
Soundias	Natasha	Woodland Middle School
Spiegel	Elizabeth	Herricks High School
Spinnato	Sophia	Syosset High School
Spriggs	Marguerite	Clarke High School
Squillace	John	Elmont Memorial High School
Stack	Carolyn	Roslyn High School
Steffens	Josh	Roslyn High School
Steffens	Josh	Roslyn High School
Sundberg	Brian	Northport High School
Tallarine	Lauren	Manhasset High School
Titolo	John	Bethpage High School
Tucker	Kristin	Herricks High School
Turato	Nicole	Herricks Middle School
Vallone	Joseph	Suffolk Community College
Walker	Cory	South Woods Middle School
Wallad	Carrie-Ann	Herricks High School
Weisenseel	Kelly	Lawrence Middle School
Wolf	Christina	Oceanside Middle School
Wolfort	Adam	Schreiber High School
Wong	Nicole	Syosset High School
Xavier	Nancy	Oceanside Middle School
Young	Diana	Garden City High School

Last Name	First Name	Grade	Team	Topic	Room
Bethpage High School					
Maiti	Soham	9		Time Dilation and Length Contradiction	BA112
Clarke High School					
Anest	Kaylin	9		Binary Code	BA201
Hirshon	Jesse	9		Math in Minecraft	BA203
Lim	Nathaniel	9		Ellipses	BA208
Mathew	Joel	9		Matrices	BA216
Melkun	Jonathan	9		The Golden Ratio	BA217
Collica	Joseph	10		Margin of Error	A109
Ramlall	Justin	10		The Fourth Dimension	A209
Sayed	Pantho	10		Mathematics in Astronomy	A212
Shah	Aashini	10		Coloring in Mathematics	BR19
Suri	Pavit	10		Heron's Formula	BR200
Commack High School					
Muthukumar	Pragati	9		The Mathematics of GPS	HA109
Doshi STEM- Nassau Boces					
Cecere	Jack	9		The Math Behind a Rubiks Cube	D11
Chow	Nelson	9		Math Involved in Swimming	D14
Lewkowicz	Michal	9		Gravity	D15
Marco	Tony	9		The Math Involved in War	D16
Quane	Sean	9		Math in Soccer	D17
Shah	Asghar	9		The Evolution of Marthematics	D20
Agriogianis	Charles	10		Comparing Cost & Efficiency of Nuclear Power & Fossil Fuel	BR205
Chowdhury	Nabil	10		Exploratoin of the Frog Puzzle and Variances	BR206
Guerra	Pacika	10		Prime Numbers	GAL13
Kaur	Manpreet	10		The Mathematics Behind Ice Skating	GAL14
Liddie	Anthony	10		Infinitesimals	GAL16
Malhotra	Sonali	10		The Mathematics in Structural Design	GAL17
East Meadow High School					
Arora	Anusha	9		Algebraic Topology	D101
Lopez	Laura	9		The Mathematics in Clocks	D102
Ali	Mehrin	10		Taylor Series	GAL18
Moghni	Adeena	10		The Mathematics in Game Theory	GAL242
Diamond	Jordan	11		Related Rates	C306
Floody	Erin	11		Mathematics of Bouncing Balls	M119
Sugrim	Kirkland	11		Mathematics of Origami	N13
Uppal	Nikita	11		Computational Alogorithms	N15
Elmont Memorial HS					
Browne	Kyla	8		Imaginary and Complex Numbers	BA13
Reale	Victoria	8		The Relationship Between Astronomy and Math	BA14
Mamun	Sameer	9		Mathematics and Rainbows	D104
Munn	Brianna	9		Series and Sequences	HA109
Browne	Dominique	10		Hypercomplex Numbers	CHP117

Last Name	First Name	Grade	Team	Topic	Room
Tugbobo	Ifeoluwa	10		Euler Mathematical Connections	CHP31
Phillip	Joshua	11		Math and the Stock Market	N18
Friends Academy					
Bo	Morgan	10		Music and Math	L201
Brown	Ashley	10		Fibonacci sequence, number spiral, and the golden ratio	L203
Miller	Jennie	10		Knot Theory and its Applications	L211
Silverstein	Paige	10		Chaos Theory	MA20
Garden City High School					
Heavey	Patrick	9		Graph Theory	BA112
McGannon	Christian	9		Sabermetrics	BA201
Schmitt	Timothy	9		Cellular Automata	BA203
Campbell	Alana	10		Geometric Approach to Quadratics	MA22
Choi	Julia	10		Solving quadratics geometrically	ME10B
Granville	Matthew	10		Fantasy Sports	W100A
Grlic	Thomas	10		Predicting Smartness	W100B
Rieger	Caroline	10		Matrices and Animation	W204
Gallic	Claire	11		Math and Poverty	N19
Galzerano	Katherine	11		Newton's Method for curves	N20
Shaps	Samantha	11		Curve Fitting	R13
Woo	Seunghyun	11		Elliot Wave Theory	R101
Great Neck North HS					
Lu	Christopher	9		The truth behind Galileo's infinite sets	D104
Rothbaum	Joshua	9		Data on the diamond: sabermetric analysis in baseball	D102
Chen	Luhan	10		Taylor Series Expansion	W204
HAFTR					
Sacks	Rachel	11		The Enigmatic Qualities of Prime Numbers	R102
Half Hollow Hills HS East					
Wagner	Kasim	10		The 4th Dimension	A109
Herricks High School					
Kim	Christina	9		Pythagoras	BA208
Lau	Joanna	9		Fractals and Cancer	BA216
Liu	Winston	9		Strength of US Currency and its Effects	BA217
Patel	Uttsav	9		Integral Calculus	D14
Rawal	Soham	9		Inferential Statistics in Medicine	D15
Rocco	Andrew	9		Trajectory of Projectiles	D16
Soni	Hita	9		Conic Sections in Outer Space	D17
Tsai	Andrew	9		Divine Proportion/Golden Ratio	D20
Hsu	Janet	10		Computer Graphics	A209
Makwana	Keya	10		Unit Circle	A212
Patel	Radhika	10		Infinity: Is Infinity a Number or a Radical Concept?	A212
Ravindran	Megha	10		Binomial Distribution Probability	BR200
Sawhney	Aman	10		LaPlace Transform Application	BR205
Singla	Anisha	10		The Golden Ratio and the Fibonacci Sequence	BR206
Wu	Angela	10		Spherical Geometry	GAL13

Last Name	First Name	Grade	Team	Topic	Room
Ahmed	Nibras	11		Chaos Theory	R106
Chen	Alan	11		Group Theory	R108
Jung	Bongseok	11		Statistics in Medicine	R109
Koe	Nora	11		Data Science	R110
Pathak	Naeha	11		Cryptography	R111

Herricks Middle School

Last Name	First Name	Grade	Team	Topic	Room
Agarwal	Aarya	7		Genetics and Probability	BRW101
Chiang	Selina	7		Pythagorean Triples	BRW102
Cho	Ludia	7		Sierpinski's Triangle (Fractals)	BRW103
Chou	Alison	7		Game Theory	BRW104
Goyal	Abhinav	7		Game Theory	BRW106
Joseph	Victoria	7		Fractals	BRW201
Kim	Andrew	7		Logarithms	BRW202
Koe	Justin	7		Pascal's Triangle	BRW203
Krishnamoorthy	Preethi	7		Matrices and Determinants	BRW204
Kumar	Sanketh	7		Matrices and Determinants	BRW101
Lakshmanan	Haritha	7		Fibonacci Numbers	BRW102
Leung	Samuel	7		The Law of Cosines	BRW103
Pinzon	Kyle	7		Matrices and Determinants	BRW104
Rasquinha	Rhea	7		Golden Ratio	BRW106
Talapatra	Arjun	7		Limits	BRW201
Tan	Chiara	7		Matrices	BRW202
Wei	Emily	7		Parabolas	BRW203
Chen	Derek	8		Topology	BA15
Gupta	Rohan	8		Differential Calculus	BA16
Hsu	Carrie	8		Cubic Functions	BA18
Joseph	Angela	8		Pascal's Triangle	BA20
Leung	Jonathan	8		Fourth Dimension	BA25
Paciullo	Michael	8		Voting Systems	BA26
Patel	Shreya	8		Conic Sections	BA100
Ritchie	Kathryn	8		Trigonometry	BA102
Savani	Shubh	8		Logarithms	BA103
Singhal	Rahul	8		Vectors	BA105
Soni	Harsh	8		Limits	BA106
Thyagaray	Joanna	8		The Law of Cosines	BA111
Tucker	Emily	8		Matrices and Determinants	BA13
Won	Rachel	8		Tetrahedron	BA14

Hicksville Schools

Last Name	First Name	Grade	Team	Topic	Room
Singh	Navptreet	7		p	BRW204
Gupta	Sejal	8		Math, Yoga, , and Meditation	BA15
Jain	Viveka	8		Probability	BA16
Raval	Priyansh	10		Mass Point Geometry	GAL14
Ansari	Adil	11		The Vitruvian Man: The Math Behind the Man	R112
Braich	Jasdeep	11		Traveling Salesman Problem	R201

Last Name	First Name	Grade	Team	Topic	Room
Dave	Aamir	11		Proving Tachyon Principles	R206
Filigenzi	Dakota	11		Slide Rule Mathematics	R213
Gomez	Jorge	11		Zipf's Law	SC218
Jiang	Johnson	11		Reimannian Geometry	S107
Mathew	Shana	11		The Monty Hall Problem	C306
Mazhuvanchery	Jose	11		DeMoivre's Theorem	M119
Mukadum	Fatemah	11		The Math of Remote Sensing	N13
Reed	Austin	11		Vectors	N15
Singh	Kyle	11		Fermat's Last Theorem	N18
Srinivas	Sailesh	11		The Chinese Remainder Theorem	N19
Tsang	Sarah	11		Mathematical Magic	N20
Yang	Jason	11		Abacus Math	R13

Holy Trinity High School

Last Name	First Name	Grade	Team	Topic	Room
Barry	John	9		Pascal's Triangle	D101
Feng	Siyan (Frank)	9		Abacus	D102
Harten	Patrick	9		Math and NASCAR	D104
Huynh	Anthony	9		Cryptography	BA112
Jiang	Bing lun	9		Math and Music	HA109
Nicholson-Dews	Bryan	9		Fractals	BA201
Patel	Harshil	9		Fourth Dimension	BA203
Skrabut	Katelynn	9		Fibonacci Sequence	BA208
Basel	Margaret	10		Cryptography	GAL16
Campos	Andrea	10		The Four Color Theorem	GAL17
Clabby	Kelsey	10		Math in Volleyball	GAL18
DiGiorgio	Ambar	10		Math and Astronomy	GAL242
DiGrazia	Julia	10		Mathematics and Bubbles	CHP117
Farino	Louis	10		The Golden Ratio	CHP31
Jacob	Amy	10		Mathematics of Spirals	L201
Kossegi	Timothy	10		Fractals	L203
Lescoe	Kellie	10		Cryptography	L211
Muller	Hannah	10		Fractals	MA20
Nguyen	Carol	10		Mathematics in Monopoly	MA22
Parmar	Ashwinder	10		Mathematics of Juggling	ME10B

ICPS

Last Name	First Name	Grade	Team	Topic	Room
Chen	Keyi	10		Common Ratios in Right Triangles	W100A
James	Justin	10		Prime Triplets and Twin Primes	W100B
Jewel	Joseph	10		Perpendicular Bisector of Lines with Points on a Circle	W204
Li	Cindy	10		Fractal Dimension of Long Island	A109
Mullan	Ashley	10		Exploration Mobius Strip	A209
Ravishankar	Jhanvi	10		Effect of Education on American Salaries	A212
Celic	Dan	11		Proving Higher Dimension Figures Using Trig	R101
Clopper	Alex	11		Squares, Cubes, Triangle Numbers	R102
Marcos	Valery	11		Height Plays a Factor in Projectile Motion	R106
Postiglione	Thomas	11		Consecutive Fibonacci Number in Quadratics	R108

Last Name	First Name	Grade Team	Topic	Room
Jericho High School				
Xu	David	9	Ant Colony Optimization	BA216
Basavaraju	Rohan	10	Gamma Fucntion	A212
Cen	Melanie	10	Chaos Thoery	BR200
Chen	Caroline	10	Medication Adherence and Preventable Expenses: Case	BR205
Chowdhary	Ayana	10	Matrices and Graphes	BR206
Gan	Emma	10	Molecular Geometry	GAL16
Golechha	Aishwarya	10	Correlation Beyween Math and Music	GAL13
Lo	Dennis	10	Paradigms of Condorecet Voting Systems	GAL14
Park	Kevin	10	Paradoxes in Mathematics	GAL17
Venkatesh	Harsha	10	Simpson's Paradox	GAL18
Wong	Benjamin	10	Using Binary Star Systems to Determine Stellar Masses	CHP117
Wong	Kristal	10	ISBN Codes and Credit Card Numbers	GAL242
Xu	Alex	10	Conway's Game of Life	CHP31
Agarwal	Shimona	11	Optimization	C306
Ames	Justin	11	Cyclic Primes	R109
Chen	Harrison	11	Rubik's Cube and God's Number	R110
Lee	Nate	11	Cracking the German Engima	R112
Li	Sandra	11	Statistical Ttrends in Swimming Records	R111
Lin	Jonathon	11	Bankeel Curves	R201
Munayirji	Brittney	11	Development of Logarithms	R206
Pahlavan	Adam	11	Anovel Method for Wedding Virtual Eletrodes	R213
Ritter	Brett	11	Counting Cards and Expected Returns	SC218
Sethi	Neil	11	Investigating Lurking Variables	S107
Singhal	Rishi	11	Dividing With Zero	M119
Sridhar	Aarthi	11	Volume of Spheres	N13
Wang	Shuqi(Nancy)	11	Ways to Win Tic Tac Toe	N15
Kennedy High School POB				
Shine	Audrey	9	Zipf's Law	BA217
Aber	Rachel	11	Gnomonic Projection	N18
Ash	Alec	11	Force Field Function for Molecules with Modified Bases	N19
Biggins	Celia	11	Matrix Algebra	N20
Blum	Talia	11	Continued Fractions and Diophantine Equations and Pell's	R13
Cohen	Julia	11	Barth Sextic	R101
Danziger	Philip	11	Boolean Algebra and Logic	R102
Frucht	Samantha	11	Truncated Icosahedrons	R106
Fryman	Alexandra	11	Application of Markov Chains to Environmental Issues	R108
Getzler	Jason	11	Lagrange's Theorem	R109
Getzler	Lauren	11	Monty Hall Problem	R110
Guido	Daniela	11	Pascal's Triangle	R111
Israel	Adam	11	The Golden Ratio	R112
Kang	Sunwoo	11	Fractal Geometry	R201
Kaur	Aashna	11	Korn Snowflake Curve and Fractals	R206
Kuster	Max	11	Spherical Spirals	R213

Last Name	First Name	Grade	Team	Topic	Room
Lam	Sydney	11		Four Color Theorem	SC218
Mathew	Vincy	11		Matrix Exponential	S107
Melle	Evan	11		Marion Walter's Theory	C306
Morgenthal	Michael	11		Zipf's Law	M119
Shah	Mili	11		Inverse Square Law	N13
Wang	Michelle	11		Centered Polygonal Numbers	N18
Xenakis	Effie	11		Conics: Ellipses	N19
Xenakis	Georgia	11		Simple Continued Fractions	N20
Yom	Jina	11		Markov Chains	R13

Lawrence High School

Last Name	First Name	Grade	Team	Topic	Room
Baez	Heysil	9		Projectiles	D11
Bukhari	Syed	9		Limits	D14
Guha	Anoushka	9		Zeno's Paradoxes	D15
Kirchner	Brooke	9		Codes and Ciphers	D16
Monroy	David	9		Alternative Energy	D20
Peralta	Mykaela	9		Fuzzy Logic	D104
Ramirez-Rivera	Alisson	9		Math in Sports	HA109
Breban	Ethan	10		Math in Finance	L201
Brunson	Ariana	10		The Mathematics of Pi	L203
Griffin	Aryama	10		The Mathematics of Pi	L211
Islam	Mohammad	10		Mathematics in Music	MA22
Merchan	Kellyn	10		Pythagorean Theorem	ME10B
Portillo	Stacy	10		Synthetic Division	W100A
Vacchio	Perry	10		Pascal's Triangle	W100B
Velasquez	Andrew	10		Fermat's last Theorem	W204
Best	Ciara	11		Matrices	R101
Leiva	Astry	11		Forensic Mathematics	R111
Lerebours	Robyn	11		Math in Saving for College	R110
Simao	Michael	11		The Life and Story of Pi	R201

Lawrence Middle School

Last Name	First Name	Grade	Team	Topic	Room
Roth	Brooke	7	Team A	Pascal's Triangle	HE100
Sharin	Amy	7	Team A	Pascal's Triangle	HE100
Daruvala	Nadar	7	Team B	Friendly, Perfect and Prime Numbers	HE100
Libbey	Carson	7	Team B	Friendly, Perfect and Prime Numbers	HE100
Vairo	Thomas	7	Team B	Friendly, Perfect and Prime Numbers	HE100
Rampersaud	Deven	8		Fibonacci Sequence	BA18
Mundell	Nathan	8	Team A	The ZipF Mystery	SC142
Scroppo	Noah	8	Team A	The ZipF Mystery	SC142
Herrera	Cristina	8	Team B	Chaos Theory	HE101
Sandhu	Bhawan	8	Team B	Chaos Theory	HE101
Cohen	Lia	8	Team C	Cancer and Genetics	SC141
Flores	Maria	8	Team C	Cancer and Genetics	SC141

Last Name	First Name	Grade Team	Topic	Room
Long Beach Middle School				
Arengo	Maya	7	The Golden Ratio	BRW101
Arengo	Uma	7	Imaginary and Complex Numbers	BRW103
MacArthur High School				
Chowdhury	Saajid	9	Collatz Conjecture	BA112
Portello	Nicholas	9	The History of Controversies of the Pythagorean Theorem	BA201
Cassano	Erin	10	Carbon Nanotubes	A109
Fischer	Emily	10	Dimensions and Magnitudes of Tsunamis	A209
Liu	Maggie	10	Analysis of Theorems and Axioms of Origami	A212
Spinelli	Delilah	10	Volumes of solids of revolution	A212
Zhang	Helen	10	Math in Architecture	BR200
Butcher	Casey	11	Economic Viability of Sewer Systems	R112
Manhasset High School				
Farrell	Michael	9	The Postage Stamp Problem	BA203
Hitchcock	Jack	9	Card Tricks	BA208
Huang	He (Duncan)	9	The Octagon	BA216
Mitaritonna	Jacklyn	9	Tim and Tom's Financial Adventure	D11
Schlaefer	Jay	9	Rate Paradoxes	BA217
Tauckus	Emma	9	Hazards of Heavy Metal	D14
Thalheimer	Bryce	9	Modeling with Matrices	D15
Themelis	Christopher	9	Mathematics and Sports	D16
Tortora	Ross	9	Postage Stamp Problem	D17
Abruzzo	Massimo	10	Investment and Growth	BR205
Caamano	Cristian	10	Speedometer and Odometer Accuracy	BR206
Cargiulo	Jack	10	Investments	GAL13
Corcoran	Sean	10	Sequences and How They are Used	GAL14
De Castro	Robert	10	The Mathematics of Bond Pricing and Interest Rate Risk	GAL16
De Gaudenzi	Jack	10	Fishing and the Future	GAL17
Gold	Daniel	10	Elementary Game Theory	GAL18
Gudino	Jared	10	The Average of Rates and the Average Rate	GAL242
Haigian	Claudine	10	Mission Possible: Curiosity's Flight to Mars	CHP117
Harragan	Kyle	10	Rate Paradoxes	CHP31
Kassabian	Alex	10	Area of a Triangle	L201
Kiley	Emily	10	Iteration and Chaotic Dynamics	L203
Locurto	Marissa	10	Examining Applied Rational Functions	L211
Maleno	Alex	10	The Math Behind Card Tricks	MA20
Meyer	Christopher	10	To Punt or Not to Punt	MA22
Petras	Katherine	10	The Utility of Insurance	ME10B
Pidedjian	Adam	10	Punting Probablilities	W100A
Thompson	Christopher	10	Analyzation of Sickle Cell Alleles	W100B
Tsoumpariotis	Angeliki	10	Concepts in Math and Science	W204
Bakshandeh	Michael	11	The Physics Behind a Golf Swing	R206
Giovanelli	Frederick	11	GPS Navigation	R213
Kim	Benjamin	11	Modeling	SC218

Last Name	First Name	Grade	Team	Topic	Room
Li	Bowen	11		Area Beneath a Curve	S107
Psyllos	John	11		The Super Apple Collider (Physics)	C306
Reppucci	David	11		Voting and Auction Fairness	M119'
Thalheimer	Jessica	11		Food Service and Dietary Requirements	N13
Van Roy	Parker	11		Sustainable Energy Production by Black Holes	N15
Whelan	Thomas	11		The Texas Lottery	N18

Mattlin Middle School

Last Name	First Name	Grade	Team	Topic	Room
Varghese	Eshwin	8		Sub-linear Time Algorithms	BA20

North Shore Hebrew Academy

Last Name	First Name	Grade	Team	Topic	Room
Schneck	Eden	9		Angle of Incidence and Its Effect on Seasons	D20
Gilman	Benjamin	10		Gyroscopes	A109
Hajibay	Aryeh	10		Constructions of Conic Sections	A209

North Shore High School

Last Name	First Name	Grade	Team	Topic	Room
Bello	Hally	10		Perfect Triangles	A212
Berlin	Jacob	10		Arbelos Properties	A212
Bischoff	Frederic	10		Polar Coordinates	BR200
Fossett	Danielle	10		Ptolemy & Cyclic Quadrilaterals	BR205
Glennon	Isabelle	10		Five-Con Triangles	BR206
Keenan	Riley	10		Dividing a Line Segment	GAL13
Reilly	Kinsale	10		Circular Inversions	GAL14
Roth	Bryce	10		Hypotenuse Restrictions	GAL16
Ruisi	Michael	10		Escribed Circles to Triangles	GAL17
Santucci	Lauren	10		Circle Partitioning	GAL18
Sharkey	Robert	10		Conics and Pythagorean Triples	GAL242
Zaffiro	Gabrielle	10		Ellipse: Locus Vs. Cone Slice	CHP117

North Shore Middle School

Last Name	First Name	Grade	Team	Topic	Room
Blumenthal	Sophie	7		Magic Squares	BRW104
Caldwell	Dean	7		Magic Squares	BRW106
Castle	Lucas	7		Math in Roller Coasters	BRW201
Drivas	Matt	7		Pascals Triangle	BRW202
Efstathiadis	Christina	7		Zeno's Paradox	BRW203
Hagen	Lauren	7		Codes and Ciphers	BRW204
Jacklin	Cole	7		Pascals Triangle	BRW101
Lenney	Scott	7		Fractals	BRW102
Mandell	Aiden	7		Codes and Ciphers	BRW102
Martin	Lucia	7		Codes and Ciphers	BRW103
McLellan	Andrew	7		Tessellations	BRW104
Moughal	Sarah	7		Plantonic Solids	BRW106
Reynolds	Patrick	7		Fractals	BRW202
Rosencrans	Sam	7		Illusions	BRW201
Rosencrans	Sophie	7		Codes and Ciphers	BRW203
Stylianou	Michalis	7		Math in Roller Coasters	BRW204
Sun	Richie	7		Fractals	BRW101
Weber	Kelly	7		Zeno's Paradox	BRW103

Last Name	First Name	Grade	Team	Topic	Room
Gillman	Harrison	8		Conic Sections	BA25
Hartman	Alyssa	8		Rubik's Cube	BA26
Hoell	Dylan	8		Origami	BA100
Hunt	Katherine	8		Math in Aviation	BA102
McCreery	Kyra	8		Euler's Number	BA103
Purcell	Henry	8		Fractals	BA105
Reilly	Esme	8		Topology	BA106
Scala	Claudia	8		Magic Squares	BA111
Thoet	Carolyn	8		Complex Numbers	BA14

Oceanside High School

Last Name	First Name	Grade	Team	Topic	Room
Baghan	Osman	9		Sierpinski Triangle	D101
Haertig	Vanessa	9		Pick's Theorem	D102
Hong	Ryan	9		Which type off lock provides the best security?	D104
James	Danielle	9		Sierpinski Triangle	HA109
Rovello	Etzio	9		Sierpinski Triangle	BA112
Sanchez	Jacob	9		Polygonal Numbers	BA201
Utrecht	Alex	9		Four Color Theorem	BA203
Dauber	Jack	10		Game Theory and World War	CHP31
Dimitrakas	Nickolas	10		Global Warming Effects	L201
Pagona	Nina	10		Palindromic Cycles	L203
Somerstein	Sloane	10		The mathematics of traffic	L211
Wright	Jacqueline	10		Logistic Growth in Ebola Outbreak	MA20
Calboreanu	Lorelei	11		Neuronal Interpretation of Bayes' Rule	N19
Cavale	Jenna	11		Linear Diophantine Equations and Euclid's Algorithm	N20
Curra	Annalicia	11		Linear Diophantine Equations and Euclid's Algorithm	R13
Hindin	Spencer	11		Optimal Arc of the 3 Point Shot	R101
Jones	Chelsea	11		Barycentric coordinates in Animation	R102
Markoulli	Andrew	11		Two Dimensional Motion in Soccer	R106
Pocress	Michael	11		Modeling Disease Progression with Differential Equations	R108
Sokolsky	Samantha	11		Exploring Rate of Change in Pick's Theorem	R109
Wollweber	Thomas	11		Analysis of Deer Population in America	R110

Oceanside Middle School

Last Name	First Name	Grade	Team	Topic	Room
Aizer	Ryan	8		Imaginary Numbers	BA15
Brennan	Nicholas	8		Tower of Hanoi	BA13
Carlins	Makayla	8		Map Coloring & Conflict Resolution	BA16
Crowley	Skyy	8		If I had a Million Dollars	BA18
Kleyman	Alison	8		Map Coloring	BA20
Kucharnik	Christopher	8		Seven Bridges of Konigsberg	BA25
Lisi	Nicholas	8		Pentagonal Numbers	BA26
Risi	Alessandro	8		Sierpinski's Triangle	BA100
Ritter	Blake	8		Investing Money in Savings Accounts	BA103
Ruiz	Ashley	8		Can You Solve the Tower of Hanoi?	BA102
Amthor	Emma	8	Team A	Relationship bewteen Vertices, Edges, and Faces	SC142
Pocress	Elana	8	Team A	Relationship bewteen Vertices, Edges, and Faces	SC142

Last Name	First Name	Grade	Team	Topic	Room
Armengau	Gabriella	8	Team B	Tower of Hanoi	SC143
Nudelman	Justin	8	Team B	Tower of Hanoi	SC143
Bier	Jack	8	Team C	Tower of Hanoi	HE100
Seychell	Christopher	8	Team C	Tower of Hanoi	HE100
Cecil	Mary	8	Team D	Square Inside a Square	HE101
Folias	Christina	8	Team D	Square Inside a Square	HE101
Bisconti	Sarah	8	Team E	If I had a Million Dollars	SC141
Dono	Freddie	8	Team E	If I had a Million Dollars	SC141
Estevez	Daniel	8	Team F	Tower of Hanoi	SC142
Naseer	Hamza	8	Team F	Tower of Hanoi	SC142
Ford	Nicola	8	Team G	Polyhedrons	SC143
Passuello	Ryann	8	Team G	Polyhedrons	SC143
Gamarra	Jonathan	8	Team H	The Cannonball Problem	HE101
Macer	Zachary	8	Team H	The Cannonball Problem	HE101
Henn	Catherine	8	Team I	The Tower of Hanoi	SC141
Palmieri	Christina	8	Team I	The Tower of Hanoi	SC141
Piccinano	Jenna	8	Team J	The Pythagorean Theorem and Musical Applications	SC143
Rosano	Jessie	8	Team J	The Pythagorean Theorem and Musical Applications	SC143

Portledge School

Sun	Jerry	10		Kepler's Second Law: Proof by Calculus	MA22

Roslyn High School

Ginsberg	Hannah	9		Inscribed circles of different shapes	BA208
Khazzam	Alexa	9		Graph theory	BA216
Leventhal	Emily	9		Math Behind the perfect song	BA217
Mintz	Emily	9		Graph theory: A mathematical approach to modeling real	D11
Schiavo	Justin	9		Velocity needed to get a rocket from the launchpad to orbit	D14
Schneider	Gemma	9		Deriving formulas to determine the number of squares,	D15
Tom	Stephanie	10		Kobon Triangle Problem	ME10B
Kong	Mark	11		Conic sections and Time	R111

Roslyn Middle School

Mayourian	Jacob	7		Math in Barcodes	BRW104
Pahlevan	Alida	7		Seven Bridges of Konigsberg	BRW102
Russ	Lindsey	7		Prisoner's Dilemma	BRW106
Wachsman	Ethan	7		Mathematics of projectile motion	BRW201
Antenberg	Andrew	8		Randomization	BA103
Covey	Adam	8		Platonic Solid	BA105
Friedman	Lianna	8		Conic Sections	BA106
Fries	Gabby	8		Correlation and causation in autism	BA111
Hakimi	Ariella	8		Trig. Identites	BA13
Kafri	Roey	8		Logarithms	BA14
Khazzam	Carly	8		Fractals	BA15
Litvack	Jack	8		Four color theorem	BA18
Rubin	Maddie	8		Binary Number System	BA16

Last Name	First Name	Grade	Team	Topic	Room
Rufai	Feyi	8		Golden Ratio	BA20
Stein	jacob	8		Hyperbolic)Paraboliid	BA25
Stoller	Jake	8		Conic Sections	BA26
Zhana	Olivia	8		Golden Ratio	BA100
Drenis	Liana	8	Team A	Barcoding / QR codes	HE100
Fried	Justin	8	Team A	Barcoding / QR codes	HE100
Futoran	Daniella	8	Team B	Logarithms	HE101
Perlman	Zach	8	Team B	Logarithms	HE101
Chong	Truman	9		Factors of Integers	D16
Flasher	Joshua	9		Packing tangents circles into a exterior tangent circle	D17
Flyer	Daniel	9		Packing circles into regular polygons	D20
Goldberg	Andrew	9		Ailles Rectangle and thye Golden Triangle	D101
Goodstadt	Brynn	9		Area: Shoelace Method	D102
Kim	Jeremy	9		Number theory	D104
Kim	Sarah	9		Triangular numbers	HA109
Koo	Matthew	9		Number Theory	BA112
Krush	Hayden	9		Skewness	BA201
Miller	Harris	9		Packing sequences - number theory	BA203
Terbancea	Nicholas	9		Ratios of Circumcenters and centriods	BA216
Tom	Catherine	9		Number theory- paths in a mxn grid	BA208
Tsao	Spencer	9		Triangular arrays	BA217
Yoon	Kyle	9		Arithmetic Sequence and its manifestations	D11

Sacred Heart Academy

Last Name	First Name	Grade	Team	Topic	Room
Gannon	Kelly	11		Pythagorean Quadruples	R112

Schreiber High School

Last Name	First Name	Grade	Team	Topic	Room
Romanski	Lucas	9		The Fundamentals at Special Relativity	D14
Cai	Iris	10		Variations of the Pascal's Triangle	W100A
Calamari	Nicole	10		Expanding the Justification Criteria for Solar Panel ROI	W100B
Finkelstein	Anna	10		Studies on a Variation of the Koch Snowflake/Curve	W204
Gao	Alexsandra	10		Analyzing factors that effect the Tkatchev	A109
Johnson	Shiraz	10		Forces on Roller Coaster Cars	A209
Kobayashi	Ayato	10		Analysis of the sneaker secondary (resale) market, creating	A212
Littman	Jamie	10		Calculating Amount of Energy Saved by Using a Reusable	A212
Oh	Solbi	10		3D Koch Snowflake vs. Original Koch Snowflake	BR200
Ruskin	Julia	10		Measuring the Impact of Vaccination Rates on Measles	BR205
Shi	Sherry	10		Calculating and analyzing the CO_2 emission as a result of	BR206
D'Alonzo	Samantha	11		Testing the Effitctiveness of the Friendship Paradox for	R201
Ettlinger	Jeremy	11		Autonomous Vehicles;	R206
Feldman	Elias	11		Identity Theft Demographics	R213
Goldman	Sarah	11		A Mathematical approach in comparing nutrtion facts label	SC218
Hurt	Jordan	11		Predicting El Nino Using Lunar Cycles	S107
Kogan	Maria	11		Analyzing the Effects of Iteration on Image Registrations	C306
Konoff	Robert	11		Optimizing Solar Panels With Net Metering and Adjusting	M119

Last Name	First Name	Grade	Team	Topic	Room
Langone	Dylan	11		On the Orbital Trajectories of Comparatively Low Mass	N13
Nam	HyeonSeok	11		Application of Pascal's Triangle on 3-Dimensional Network	N15
Taylor	Brittany	11		Statistic Comparison of Schreiber High School Standardized	N18

South Woods Middle School

Last Name	First Name	Grade	Team	Topic	Room
Cheng	Evan	7		Properties of Triangles	BRW204
Kopacz	Michael	7		Minecraft Mathematics	BRW202
Lin	Kenneth	7		Rubik's Cube	BRW203
Mehtani	Atharv	7		Golden Ratio	BRW102
Rasquinha	Giselle	7		Mendel's Law	BRW101
Louie	Kiersten	7	Team A	Geometry by Folding Paper	HE100
Qian	Amanda	7	Team A	Geometry by Folding Paper	HE100
Abraham	Ruth	8		Codes and Ciphers	BA102
Cizmecioglu	Aren	8		Infinity	BA103
Klimberg	Julia	8		Fibonacci Sequence	BA105
Larson	Claire	8		Kepler's Law	BA106
Luo	Yan	8		Pi	BA111
Santella	Peter	8		Math in Sports	BA13
Shah	Parth	8		Kepler's Law	BA14
Diao	Catherine	8	Team A	Zeno's Paradoxes	SC141
Wu	Tiffany	8	Team A	Zeno's Paradoxes	SC141
Duan	Vivan	8	Team B	Zeno's Paradoxes	SC142
Stekol	David	8	Team B	Zeno's Paradoxes	SC142
Alam	Jishaan	8	Team C	Golden Ratio	SC143
Chen	Patrick	8	Team C	Golden Ratio	SC143
Tang	Brandon	8	Team D	Rubik's Cube	HE101
Virk	Manpreet	8	Team D	Rubik's Cube	HE101
Guo	Victoria	8	Team E	Astronomy and Mathematics	SC141
Thomas	Merin	8	Team E	Astronomy and Mathematics	SC141
Datta	Archisha	8	Team F	Infinity	SC142
Sol	Yvette	8	Team F	Infinity	SC142

Syosset High School

Last Name	First Name	Grade	Team	Topic	Room
Li	Kevin	7		a2 + b2 = So Much More Than c2	BRW103
Jang	Sophia	8		Mathematics of Networks	BA15
Lam	Thomas	9		Fourier Transformation	D15
Park	Aileen	9		Proofs in Number Theory	D16
Abraham	Hannah	10		Golden Ratios and its Application in Aesthetics	GAL13
Ardizzone	Matthew	10		Physics of Riderless Bicycles	GAL14
Arora	Jahnavi	10		Color Theorem	GAL16
Chvasta	Mathew	10		Cryptosystem/Mechanics of RSA	GAL17
Goldberg	Jillian	10		Shortest Networks & Steiner Points	GAL18
Hornick	Evan	10		4th Down in Football	GAL242
Israel	Daniel	10		Quantum Key Distribution: Key Creation Encoded	CHP117
Johari	Neil	10		Machine Learning	CHP31
Li	Wanlin	10		Addition of Rational Points on Elliptic Curves	L201

Last Name	First Name	Grade Team	Topic	Room
Tang	Jacquelin	10	Fractal Geometry	L211
Chen	Maximillian	11	Bayesian Approach to Consumer Credit Screening	N19
He	Andrea	11	Mass Points	N20
Massimilla	Richard	11	Knot Theory: A Computational Analysis of States and the	R13
Menon	Siddharth	11	Linear Image Processing	R101
Samantaray	Yash	11	Roots of Unity	R102
Tang	Richard	11	Coast Lines: A Fractal Conundrum	R106
Wang	David	11	Data Anonymization	R108
Zeng	Ethan	11	Optics	R109

The Wheatley School

Last Name	First Name	Grade Team	Topic	Room
Ajmena	Rahul	8	Projectile Motion	BA16
Belle	Alyssa	8	The Influece of Mathof Magic Squares:Past to Present	BA18
Jain	Sahil	8	Fractals	BA20
Lee	Kelvin	8	Battleship	BA25
Lee	Rachel	8	A Brain of a Swimmer	BA26
Li	Karen	8	Mathematics in Modem and Olden Cryptology	BA100
Potrapeluk	Natalia	8	The Math in Soccer	BA102
Ramos	Madison	8	Mathematics in Computer Graphics	BA103
Shah	Diya	8	Spidrons	BA105
Sparacio	Rebecca	8	The Fibonacci Sequence	BA106
Vincenzo	Ashley	8	Infinity	BA111
Wong	Trenton	8	Alternate Number Bases	BA13
Yagoda	Emily	8	Arbitrage	BA14
Yamin	Alia	8	Math in Nature	BA15
Zachariah	Aaron	8	Math in Finance	BA16
Zhong	Sharon	8	The 4th Dimension	BA18
Shukla	Manan	9	The Ramsey Theorem	D17
Singh	Vedant	9	The Nine Ball Problem	D20
Ainechi	Sufia	10	Mathematics behind the Heart	L203
Kumar	Abhishek	10	DeMoive's Theorem	MA20
Vega	Justin	10	Non-Euclidean Geometry and its Applications	ME10B
Gilbert	Jakob	11	Equations for combining exponents	R110
Jadonath	Arvin	11	Chaos Theory	R111
Lessen	Ashley	11	Game Theory and Tennis	R112
Lotzky	Gil	11	Tetris: The infinate Case	R201
Nussbaum	Jax	11	Finite Differences	R206

Thompson Middle School

Last Name	First Name	Grade Team	Topic	Room
Dalvi	Anouska	7	The Fourth Dimension	BRW104
Langman	Josh	7	Magic Squares	BRW201
Min	Jeff	7	Pythagorean Theorem	BRW106
Vetranro	Nicholas	7	Fibonacci	BRW202
Dhulia	Ronit	8	Exploring the patterns within Pascal's Triangle and their	BA25
Wang	Kai	8	Mental Math	BA20

Last Name	First Name	Grade	Team	Topic	Room
Woodland Middle School					
Chinnadurai	Nishanth	7		Hexaflexagons	BRW203
Levy	Elizabeth	7		Optical Illusions	BRW204
Fong	Alyssa	8		Math in Music: Through the Decades	BA26
Froehlich	Vanessa	8		Solids of Revolution	BA100
Pandey	Ikshu	8		Pascal's Triangle	BA102
Pienkowski	Mateusz	8		The History of Algebra	BA103
Johnson	Ashish	8	Team A	Math and Architecture	SC143
Mun	Lucas	8	Team A	Math and Architecture	SC143
Woodmere Middle School					
Cheng	Kelvin	7		The Pythagorean Theorem	BRW101
Rasheed	Asma	8		Optical Illusions	BA105
Tang	Alex	8		Music and Math	BA106
Vilensky	David	8		Math 8 Economics	BA111
Kumar	Mithuna	9		Components for a Mars Mission	D101