Al Kalfus Long Island Math Fair
March 9, 2018
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		BR	Breslin	37		C	Calkins	33
D	Davison	28		GAL	Galwing	44		HE	Heger	43
L	Lowe	24		MA	Mason	44		ME	Memorial	26
N	Netherlands	11		R	Roosevelt	34		S	Starr	62
SC	Student Cntr	13		W	Weed	22				

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	A.	The Wheatley School
Alt	Matthew	HAFTR
Arengo	Sebastian	Long Beach Middle School
Augenblick	Rebecca	Kennedy High School POB
Barbarette	Rick	Lawrence High School
Barrera	Christina	Manhasset Secondary School
Bauhino	Christopher	Great Neck North High School
Beach	Bryan	Schreiber High School
Beleckas	J.	The Wheatley School
Benos	Melinda	Hicksville Schools
Berry	Greg	Jericho High School
Braunstein	Tom	Woodland Middle School
Bruno	Josephine	Herricks Middle School
Burt	Alexander	Friends Academy
Caldarera	Laura	Hicksville Schools
Callahan	Chris	Roslyn High School
Candalino	Leigh	Herricks High School
Cannatta	Matt	Herricks Middle School
Carman	Mark	Roslyn High School
Carnes	Melissa	Jericho High School
Castillo	Belen	Roslyn Middle School
Chae	John	Syosset High School
Chiang	Fei K.	Nassau Community College
Cioffi	Danielle	Copiague High School
Cirisano	Anthony	Herricks High School
Coe	Dr. Russell	Suffolk County Community College
Combs	Kristin	Oceanside Schools
Connors	Jackie	Hicksville Schools
Considine	Christine	North Shore High School
Cooper	Dave	Herricks Middle School
Cote	Maria	Herricks Middle School
Curran	Eileen	Holy Trinity High School
D'Agostino	Joe	Freeport High School
DeMarinis	Matthew	Jericho High School
DiMeola	Amy	North Shore Middle School
DiVenuto	Ray	Schreiber High School
Edelman	Marc	Roslyn High School
Edlin	Naomi	Northport High School
Falcone	Tiffany	North Shore Middle School
Ferraro	Mariangela	North Shore Hebrew Academy
Fischer	Marie	MacArthur High School
Fitzgerald	Margaret	Hicksville Schools

Judge's Name		School
Fonseca	Loretta	Roslyn Middle School
Frayler	Kristin	North Shore Middle School
Gallagher	Tina	Schreiber High School
Gaynor	D.	The Wheatley School
Gazzola	Debi	Thompson Middle School
Gentile	Danielle	Woodland Middle School
Gerver	Linda	Institute of Creative Problem Solving
Gerver	Michael	Institute of Creative Problem Solving
Gerver	Rob	Institute of Creative Problem Solving
Gill	Colleen	Holy Trinity High School
Gilmore	Christine	Malverne High School
Gizzi	Gabriella	Roslyn Middle School
Goldbeck	Daniel	Syosset High School
Gorman	Bryan	Schreiber High School
Governale	Tim	South Woods Middle School
Greene	Nora	North Shore Hebrew Academy
Halpin	Pam	North Shore Middle School
Hart	Stacy	Herricks Middle School
Hausler	Dana	Herricks Middle School
Hayes	Peter	Institute of Creative Problem Solving
Holland	Wendy	Hicksville Schools
Janoff	Nat	Math Fair Committee
John	Sam	Elmont Memorial High School
Joseph	Kathy	East Northport Middle School
Kalish	Art	Institute of Creative Problem Solving
Khan	Alyssa	Herricks Middle School
Khan	Nasir	Freeport High School
Kitov	Julia	Herricks Middle School
Koenig	Rich	Manhasset Secondary School
Kryder	Allison	Oceanside Schools
Kuehn	Joseph	Jericho High School
Labrocca	Ron	Hicksville Schools
LaGattuta	Genevieve	Kennedy High School POB
LaRose	Matt	Manhasset Secondary School
Lau	Winnie	Elmont Memorial High School
Lee	Soowook	Roslyn High School
Leverone	Stephanie	East Meadow High School
Mann	Lavleen	Garden City High School
Marin	Elisa	South Woods Middle School
Marks	Casey	Schreiber High School

Judge's Name		School
Martinek	Barry	Kennedy High School POB
Massa	Bernadette	Hicksville Schools
Maus	John	North Shore High School
Maus	Stacey	Thompson Middle School
Mazzarino	Christine	Lawrence High School
McBurnie	Mark	Syosset High School
McComsey	Jessica	Lawrence High School
Mcloughlin	Kristen	Lawrence Middle School
McNally	Kevin	Syosset High School
McNamara	Paul	Thompson Middle School
Medina	Jackie	Manhasset Secondary School
Melaniff	Natalie	Roslyn Middle School
Mendez	Lissette	Lawrence High School
Meyers	K.	The Wheatley School
Michalopoulos	Amy	Oyster Bay High School
Middleton	Ryan	Northport High School
Minnigan	Tom	East Northport Middle School
Modiano	Jeffrey	Garden City High School
Montera	Timothy	Copiague High School
Monterrosa	M.	The Wheatley School
Morrow	Josh	Hicksville Schools
Mugno	TJ	Lawrence High School
Murthy	Geetha	Herricks Middle School
Newell	Teri	Northport High School
Ninan	Melissa	Lawrence Middle School
O'Donnell	Mary Lou	Kennedy High School POB
O'Hara	MaryRose	Holy Trinity High School
Orlep	Michael	Herricks Middle School
O'Rourke	Erin	Syosset High School
Palatucci	Chris	Kennedy High School POB
Palleschi	Pat	Lawrence High School
Paradisi	Denise	Lawrence High School
Parisi	Grace	Long Beach Middle School
Pellett	MaryClare	Holy Trinity High School
Pesce	Virginia	Lawrence High School
Petras	Laura	Manhasset Secondary School
Pisciotta	Deanna	Woodmere Middle School
Polan	Sondra	East Meadow High School
Quengua	Lindsey	Herricks High School
Ring	Paul	Clarke High School
Rizzacasa	Michelle	Woodmere Middle School

Judge's Name		School
Rogala	Brook	North Shore High School
Santoro	Peter	Garden City High School
Saraceni	Sal	Lawrence High School
Sawicki	Chris	South Woods Middle School
Scala	Mary Ellen	Garden City High School
Scarisbrick	Colleen	Lawrence Middle School
Schorn	Alan	Great Neck North High School
Scott	Erik	Roslyn Middle School
Silagy	Alyson	Jericho High School
Silverstein	Lauren	Thompson Middle School
Silverstone	Robert	Hofstra University
Simon	Samantha	Roslyn High School
Sinclair	Marissa	Jericho High School
Soto	Marisol	Lawrence High School
Spriggs	Marguerite	Clarke High School
Steffens	Josh	Roslyn Middle School
Steinberger	Cara	Freeport High School
Straub	Ryan	Elmont Memorial High School
Sunik	Zoran	Hofstra Universtiy
Talibon	Janelle	South Woods Middle School
Tallarine	Lauren	Manhasset Secondary School
Teseo	Robert	The Wheatley School
Titolo	John	Kennedy Middle School Bethpage
Valentino	Mark	Roslyn High School
Varriale	Aliceia	Lynbrook High School
Vartelatos	Speros	Freeport High School
Vessalico	Charles	Lynbrook High School
Vollaro	Alexandra	Oceanside Schools
Walker	Cory	South Woods Middle School
Wallad	Carrie-Ann	Herricks High School
Walsh	Patrick	East Meadow High School
Wankel	Charles	North Shore High School
Warren	Lindsay	Thompson Middle School
Wecksell	Marilyn	Manhasset Secondary School
Winter	Patrick	Northport High School

Last Name	First Name	Grade	Team	Topic	Room #
Bethpage High School					
Maiti	Soham	11		Abstract Algebra/Group Theory	HE100
Clarke HS					
Ahmed	Sanjana	10		Infinity	ME10A
Panickssery	Arjun	10		Graph Theory	ME10B
Passariello	Emma	10		Logic and Truth Table	S103
Breviario	Gabrielle	11		Game Theory	HE101
Cold Spring Harbor HS					
Davis	Stephen	11		Trisecting An Angle	L201
Copiague HS					
Antosiak	Adam	9		Sexagesimal System	A109
Bright	Sophia	9		Chaos Theory in Society	A200
Bennett	Kiara	10		Theme Park Math	S107
Hernandez	Nicole	10		Parallax	S108
Bright	Jackson	11		Chaos Theory in the Human Body	L203
East Meadow HS					
Chinnadurai	Nishanth	9		Basic Differentiation and Integration	A212
Floody	Shannon	9		The Mathematics of Rollercoasters in Architecture	D11
Gins	Andrew	9		Drake Equation	D14
Levy	Elizabeth	9		Real World Applications of Matrices	D15
Caceres	Joaquin	10		Mathematics in Chess	S109
Fong	Alyssa	10		Probability and Population Genetics	S201
Froehlich	Vanessa	10		Arc length, volume and polar graphs	S202
Kuruvilla	Alvin	10		Newton's Law of Cooling	SC142
Pandey	Ikshu	10		Catalan Numbers	S203
Pienkowski	Mateusz	10		Math behind NYC stoplights and traffic	S204
Cang cuesta	Christian	11		Golden Ratio and Art	L211
Giles	Taylor	11		Identifying individuals Using Voice Analyzation	MA20
Lopez	Laura	11		Deriving the Schwarzschild Solution	MA22
Elmont Memorial HS					
Ifebi	Netochukwu	8		Zenos Paradoxes	BR28
Redhead	Shawn	8		Cryptology	BR29
Zehra	Marium	8		Imaginary Numbers	BR100
Alexander	Chrsitopher	9		Non-Euclidean Geometry	D16
Campbell	Ryen	9		Math and Music	D20
Hooke	Keilia	9		Binomial Theorem	D101
Favard	Imani	10		Topology	S204A
Adiele	Bethel	11		Taylor Series	N18
Jean Michel	Myrna	11		Heron's Triangle	N19
Munn	Brianna	11		Math & Biology	N20
Ramhit	Akshay	11		Business and Math	N21
Friends Academy					
Kang	Griffyn	10		Manipulating Fractions	S205

Last Name	First Name	Grade	Team	Topic	Room #
Garden City HS					
Berkery	Katherine	9		Weighted Coin Problems	GAL13
Caluori	Christina	9		Ambulance Services	GAL14
Haggerty	Kaelin	9		The Abacus	GAL16
O'Connor	Madeline	9		Card Tricks	GAL17
Pappas	Sydeny	9		Sudoku/Shapedoku	GAL18
Pfaff	Fiona	9		Possible Number of Chess Combinations	GAL242
Remick	Anthony	9		Shutdown of a Ride and New Technology in Disney World	A109
Sciscente	Sofia	9		Math in Medicine	A200
Treanor	Robert	9		Game Theory	A212
Byrne	Christian	10		Monty Hall Dilemma	S209
Fornasar	Julia	10		Probability	S302
Kane	Marybeth	10		Game Theory	S304
Kephart	William	10		Counting Cards in Blackjack	S304A
Klein	James	10		Pascal's Triangle	S305
Liberopoulos	Jessica	10		Math behind Lacrosse	S308
McCormack	Ryan	10		Scalling Law of Urban Ride Sharing	S309
MCDonald	Dylan	10		Brachistochrone Problem	S310
McGuire	Claire	10		Magic and Mathematics	ME10A
O'Donohue	Liam	10		Dynamics behing Rock Paper Scissors	ME10B
Paskewitz	Gavin	10		Monty Hall Problem	S103
Tierney	Kylie	10		Fractals	S107
Wu	Sarah	10		The Mystery of 0.999…	S108
Young	Jillian	10		How can we use the Math of Tessellations in Art?	S109
Zheng	James	10		The Birthday Paradox	S201
Ban	Jenny	11		Abacus	R15
Bensen	Alex	11		Hanoi Tower Problem	R101
Bensen	John	11		Physics in Billiards	R102
Cerrato	Amanda	11		Archimedean & Platonic Solids	R109
Gambino	Lindsey	11		Combinatorial Design	R110
Gladd	Chase	11		Prisoner's Dilemma	R111
Greco	Michael	11		The Fibinacci Sequence and the World	R112
Heavey	Patrick	11		Gamma Functions and Factorials	R206
Herrera	Isabella	11		Ciphers and Matrices	R213
McGannon	Christian	11		Determination of Pitching Velocity	SC218
Morrison	Iain	11		The Fourth Dimension	HE100
Padala	Aidan	11		Aerodynamcis of a Soccer Ball in Flight	HE101
Paisley	Anna	11		Operating Room Scheduling	L201
Pappas	Gavin	11		Barcodes	L203
Pfaff	Aidan	11		Does the Golden Ratio Definte Beauty?	MA20
Plunkett	Collin	11		The Towers of Hanoi	L211
Protano	John	11		Number Theory	MA22
Reifler	Thomas	11		Math in Gambling	N18
Scattareggia	Joseph	11		Counting Cards in Blackjack	N19

Last Name	First Name	Grade	Team	Topic	Room #
Schmitt	Timothy	11		Path of a Baseball Traveling over the Green Monster	N20
Smith	Amy	11		Math bBehind Dance	N21
Great Neck North HS					
Fine	Aliza	9		Unveiling the Variables of Video Virality	D11
Gruber	Danielle	9		How do Catenary Parameters affect the Taylor Series	D14
Rothbaum	Joshua	11		Who's on Top?: Linear Algebraic Approach to Tournament	R15
Herricks HS					
Koe	Justin	9		Game Theory	D15
Lakshmanan	Haritha	9		Non-Euclidean Geometry	D20
Rasheed	Arfan	9		Curved Lines	D101
Vinod	Arpitha	9		Codes and Ciphers	GAL13
Chen	Derek	10		Set Theory	S203
Hsu	Carrie	10		Graph Theory: Cage Graphs	S204A
Lo	Christopher	11		Countering Unauthorized Breaches by Remodeling the	R101
Patel	Uttsav	11		The Creation of Epidemiological Models via Calculus	R102
Soni	Hita	11		Matrices in Cryptography	R109
Herricks MS					
Jacob	Kevin	7		Bar Codes	BR13
Jain Goyal	Deven	7		Pi	BR15
Jalwan	Ashish	7		Sequences and Series	BR20
Jha	Ankita	7		Probability of genetics	BR25
Kapoor	Namit	7		Math and Music	BR26
Katz	Ashlee	7		Game Theory	BR12
Kumar	Pooja	7		The Golden Ratio	BR13
Lam	Ashley	7		Pythagorean Theorem	BR20
Lau	Carolyn	7		Golden Ratios	BR16
Lee	Jeylin	7		Sierpinski Triangle	BR25
Lui	Lauren	7		Optical Illusions	BR26
Mendez	Alexa	7		Cell Phone Usage	BR12
Nabi	Sanyah	7		Pythagorean Theorem	BR18
Ramcharitar	Peter	7		Pi	BR18
Rams	Hannah	7		Pythagorean Theorum	BR13
Saini	Rushil	7		Wave Functions	BR16
Soni	Tanush	7		Math and Music	BR15
Tan	Liam	7		Parabolas	BR15
Yang	Mitchell	7		Fibonacci Sequence	BR16
Abraham	Priya	8		Projectile Motion and Basketball	BR103
Balasubramanian	Aadithyaa	8		Fibonacci Numbers	BR105
Chheda	Caitlin	8		Genetics and Probability	BR106
Goel	Aanya	8		Matrices	BR111
Kang	Genesis	8		Golden Rectangle	BR112
Khondkar	Wafiq	8		Differential Calculus	BR200
Kong	Stanley	8		Kepler's Laws	BR203
Menrinetsang	Tenzin	8		Platonic Solids	BR208

Last Name	First Name	Grade	Team	Topic	Room #
Min	Esther	8		Matrices and Determinants	BR112
Mujtaba	Moniza	8		Genetics and Probability	BR209
Pandya	Aadi	8		Conic section	BR28
Patel	Roshni	8		Platonic Solids	BR29
Patnam	Pranati	8		Trigonometric functions	BR100
Ramesh	Iniya	8		Crypptography	BR203
Shah	Nikita	8		Trigonometry	BR103
Sohn	Kayla	8		Hex Codes	BR202
Soni	Keneil	8		Math in Music	BR202
Vinod	Ankitha	8		Differential calculus	BR105
Zovko	Chris	8		Abucus & Computer Abucus	BR200

Hicksville Schools

Last Name	First Name	Grade	Team	Topic	Room #
Gupta	Pearl	7		Aeronautics and Aerodynamics	BR18
Bhasin	Aarti	7	Team A	Prime Numbers	SC141
Bhasin	Rakhee	7	Team A	Prime Numbers	SC141
Jin	Xiang	8		Trigonometry	BR106
Zhen	Sam	8	Team A	Aeronautics and Aerodynamics	BR216
Zhen	Sean	8	Team A	Aeronautics and Aerodynamics	BR216
Kohli	Jaskaran	8	Team B	Pascal's Triangle	BR217
Singh	Ekum	8	Team B	Pascal's Triangle	BR217
Membreno	Matthew	8	Team C	Math and Music	C306
Yoo	Eli	8	Team C	Math and Music	C306
Anugu	Adith	9		The Math Behind The Rubik's Cube	GAL14
Singh	Navpreet	9		Euler's Identity	GAL16
Sivasnkaran	Dhanush	10		Probability in Bingo	S205
Agarwal	Rohil	11		Four-dimensional geometry	R110
Joshi	Manav	11		Non-Euclidean Geometry	R111
Lewkowicz	Michal	11		The Mathematics of Neural Networks	R112
Nair	Adarsh	11		Base n Number Systems	R206
Patel	Ohm	11		Infinite Series	R213
Patel	Tej	11		Game Theory	SC218
Ranu	Anjali	11		Ancient Number Systems	HE100
Shah	Asghar	11		Magnetic Resonance Imaging (MRI)	HE101
Tien	Dirac	11		Konigsburg Bridge Problem	L201
Varghese	Daniel	11		Predicate Logic	L203

Holy Trinity HS

Last Name	First Name	Grade	Team	Topic	Room #
Mathew	Thomas	9		Pascal's Triangle	GAL17
Saini	Yash	9		Catalan Numbers	GAL18
Uemura	Nicolas	9		Fibonacci Numbers	GAL242
Antropov	William	10		Cryptography	S209
Dhaiti	Cedric	10		The Golden Ratio	S302
Florio	John	10		Math in Bubbles	S304
Kranich	Rebecca	10		Conic Sections and the Dandelin Spheres	S304A
Noble	Edward	10		Math and Astronomy	S305
Patterson	Jaiden	10		The Rubik's Cube	S308

Last Name	First Name	Grade	Team	Topic	Room #
Schocken	Sela	10		Probability Theory	S309
Shebar	Alyssa	10		Infinite Series	S310
Simeti	Jeannine	10		Integral Calculus	SC142
Sullivan	Emily	10		Math and Tessellations	ME10A
Whitting	Caitlin	10		The Golden Ratio	ME10B
Williamsen	Stephen	10		Boolean Algebra, Logic Tables, and Circuits	S103
Bilello	Katelin Ann	11		Nonlinear Dynamics and Chaotic Butterflies	L211
ICPS					
Cai	Joshua	10		Area	S107
Gupta	Arjun	10		Heron's Formula	S108
Kengari	Pranav	10		Goldbach Conjecture	S109
Mulieri	Nicholas	10		Visualizing Sums	S201
Patel	Anushka	10		Area Formula	S202
Vilensky	David	10		Divisibility Patterns	S204
Wong	Trenton	10		Approximating Pi	S204A
Zachariah	Aaron	10		Ptolemy's Theorem	S205
Cai	Heather	11		Logic Puzzles	MA20
Rajeev	Devika	11		Coordinate Systems Beyond Cartesian Plane	MA22
Jericho HS					
Kim	Catherine	9		The Mathematics Behind Autonomous Vehciles	A109
Bao	Albert	10		An Exploration of Most Valuable Problems of	S209
Chang	Logan	10		How Group Theory can be Used to Find Invalid Rubiks	S302
Jiang	Haoren	10		The Missing 8 (12345679)	S304
Li	Hongyi (Miles)	10		Calculating Probability Using Function of Area	S305
Li	Tristen	10		River Crossing Problems	S304A
Lok	Isabella	10		The Fibonacci Sequence and the Golden ratio Effect on an	S309
Wang	Zipeng (Richard)	10		A Consideration of Banach Tarski Paradox Regarding Other	SC142
Weinberger	Brian	10		Using Pascal's Triangle to Factor High Degree Polynomials	ME10A
Beliauski	Kiryl	11		An Investigation into Changing Places of Subsets in	N18
Chen	Zhuolin	11		Deriving an Algorithm for Constructing an Election Based	N19
Hak	Rehan	11		Optimization of a Vollyball Serve Based on Change in	N20
Jannu	Neha	11		Maze Solving Algorithms	N21
Josephy	Lucas	11		Probability - "Guess Who?"	R15
Lipman	Asher	11		Group Manipulations of the Gale-Shapely College	R101
Malik	Hamza	11		Reinterpretation of the Josephus Problem	R102
Shekar	Shruthi	11		Data Mining: Derivation and Application of an Intricate	R110
Singh	Japeshwar	11		Cell Phone Usage and its Effect on the Grades of High	R111
Kennedy HS POB					
Varghese	Eshwin	10		Using Droz-Farny Line Theorem to Create Droz-Farny	ME10B
Bhasin	Saurav	11		Derivatives	R206
Bloom	Ethan	11		Using Probability and Mendel's Laws to Predict the	R213
Brandenstein	Julia	11		Utilization of Mathematical Models to Maximize Cancer	SC218
Chen	Emily	11		Hardy-Weinberg Law	HE100

Last Name	First Name	Grade	Team	Topic	Room #
Crawbuck	Peter	11		Maxwell's Equations	HE101
Ferretti	Zachary	11		Statistical Prediction of Seismological Trends Using Julia	L201
Girsky	Avery	11		Applications of Derivatives: Newton's and Raphson's	L203
Goldstein	Jessica	11		An Investigation of the Homotopy Between Roman	L211
Huang	Princeton	11		An Analysis of Car Buying Strategies	MA20
Indek	Mitchell	11		Using Kepler's Laws to Investigate the Possibility of a	MA22
Kazi	Sameer	11		Integral Calculus	N18
Kunz	Zachary	11		Zak Transform	N19
Kyriacou	Harrison	11		Computer Simulation	N20
Liner	Sean	11		An Application of the Queens Problem in Defining	N21
Philip	Stefan	11		Investigation of the Use of Hamming Distancesto Detect	R15
Pizzuto	Joseph	11		The Pizza Theorem	R101
Reamer	Brooke	11		The Magic Square	R102
Tivakaran	Eshan	11		Application of Levels to Prove Angle Bisector Theorem,	R109
Wernow	Jane	11		Mendel's Laws of Genetics	R110

Kennedy MS Bethpage

Last Name	First Name	Grade	Team	Topic	Room #
Bhatia	Aurrel	8		A Mathematical Approach to Predicting Movie Revenues	BR111
Thulasidas	Theresa	8		Gothic Architecture	BR208
Channapatna	Ruchitha	8	Team A	Playing with Probability	C332
Channapatna	Suchitha	8	Team A	Playing with Probability	C332

Lawrence HS

Last Name	First Name	Grade	Team	Topic	Room #
Adams	Aidan	9		Probability Paradox	A200
Ballard	Brooke	9		The Geometry of Shooting Baskets	A212
Bardales	Granados	9		Pick a Card, Any Card	D11
Bran	Natalie	9		Euclid's Elements	D14
Carpio	Andrew	9		Circles, Tangent Lines and Triangles	D15
Chacon Palacios	Jamie	9		How is Geometry Found in Building Bridges	D101
Davis	Kitana	9		The Beginning of Math	D16
Garcia	Jose	9		Hacking the Air Gap	D20
Godoy	Tiffany	9		Poincare Conjecture	GAL13
Gonzalez	Meivelin	9		Mathematics and Music	GAL14
Marroquin	Jhonatan	9		Dice Probabilities	GAL16
Melgar	Angie	9		Spidrons	GAL17
Murallez-Sosa	Shantel	9		Forensica	GAL18
Samala	Aadith	9		Dice Probability	GAL242
Aguilar	Britney	10		Speed/Acceleration	S103
Flores	Maria	10		Trachtenberg Speed System	S107
Giordonello	Michael	10		Pi	S108
Hwang	Eric	10		Pi	S109
Martinez	Jennifer	10		Mathematics of Chemistry	S201
Salnave	Sabine	10		Differential Calculus	S202
Wright	Lila	10		Math Relating to Music	S203
Bukhari	Syed	11		Sanarch-Tarski Paradox	R111
Chen	John	11		Determining the Molecular Weight of Polystyrene	R112
Dookie	Kristen	11		Mathematics of Animal Life	R206

Last Name	First Name	Grade	Team	Topic	Room #
Guha	Anoushka	11		Empirical Equations: Calculating the Molecular Weight of a	R213
Mompelas	Solomon	11		The Golden Ratio	SC218
Lawrence MS					
Mendoza	Miguel	7	Team A	Probability	W100B
Sharin	Matthew	7	Team A	Probability	W100B
Bukhari	Syed	8		Zeno's Paradox	BR209
Dagrin	Ileana	8		The Binomial Theorem	BR28
Scott	Xian	8		Probability In Genetics	BR29
Domanas	Gabrielle	8	Team A	The Fibonacci Sequence	BR216
Polanco	Liselot	8	Team A	The Fibonacci Sequence	BR216
Clerigo	Carlo	8	Team C	The Chaos Theory	BR217
Clerigo	Cedric	8	Team C	The Chaos Theory	BR217
Long Beach MS					
Arengo	Rio	7		Pascal's Triangle	BR20
Lynbrook HS					
Hausknecht	Kaylie	11		Integer Chebyshev Polynomials	HE101
MacArthur HS					
Zhang	Emily	9		Applications of Exponential Growth and Decay	A109
Yuan Li	Jin Guo	10		The Concept of Pi	S204
Yuan Li	Jing Ying	10		The Concept of Pi	S205
Chowdhury	Saajid	11		Evenly Spreading n Points Within a Unit Square	L201
Portello	Nicholas	11		The Infinite Chocolate Illusion	L203
Wu	Colin	11		The Infinite Chocolate Illusion	L211
Malverne HS					
Mamun	Sameer	11		Zeno's Paradox	MA20
Manhasset Secondary School					
Beil	Mackenzie	9		The Hidden Beauty of Multiplication Tables	A200
Hill	Aidan	9		World Record Limits	A212
Jarvis	Patrick	9		The Beauty of Pythagorean Triples	D11
Kennedy	Erica	9		Prisoner's Dilemma	D14
Tauckus	Kate	9		Black Holes	D15
Vulpis	Nicholas	9		Number Bases	D16
Bakshandeh	Luke	10		Sabermetrics Applied in the Real World	S204A
Busch	Joseph	10		Number Bases with Card Tricks	S209
Carpentiere	Nicole	10		Prisoner's Dilemma	S302
Diaz	Andrea	10		Golden Ratio	S304
Gauld	Kevin	10		Hashes and Cryptocurrency	S304A
Hill	Megan	10		The "Magic" of Magic Squares	S305
Kelly	Emma	10		Mysterious Number	S308
Orthos	Kayla	10		Game Theory	S309
Park	Dohyeon	10		Game Theory	S310
Ryan	Charlotte	10		The Mathematics of Network Traffic	SC142
Schwenk	Nicole	10		Probability Using Tree Diagrams	ME10A
Zhang	Rendie	10		Knot Theory	ME108

Last Name	First Name	Grade	Team	Topic	Room #
Broderick	Thomas	11		The Math of Derivatives	MA22
Hanley	Eamon	11		Hyperbolic Functions	N18
Khatoria	Sidhanth	11		Surreal Numbers	N19
Mannino	Michael	11		Applications of Game Theory	N20
Mondiello	Caroline	11		Matrix Representations of Edge Graphs	N21
Rorech	Jacey	11		Mathematics of Natural Disasters	R15
Ryan	Lindsay	11		Mathematics Behind the Spread of Disease	R101
Tauckus	Emma	11		Applications of Matrices	R102
Thalheimer	Bryce	11		Pythagorean Theorem	R109

North Shore Hebrew Academy

Last Name	First Name	Grade	Team	Topic	Room #
Applebaum	Jack Henry	9		Game Theory	D20
Basaleli	Benjamin	11		Boat Stability	R110

North Shore HS

Last Name	First Name	Grade	Team	Topic	Room #
Blumenthal	Sophie	9		The Inscribed and Escribed Circle of a Right Triangle	D101
Brown	Robbie	9		Patterns in Powers of Numbers	GAL13
Castle	Lucas	9		Relationships Between the Fibonacci Sequence and	GAL14
Efstathiadas	Christina	9		Geometric Transformations in the Coordinate Plane	GAL16
Pappous	Noelle	9		Finding Perfect Triangles	GAL18
Perez	Richard	9		Approximation of Area Under a Curve	GAL17
Hunt	Katherine	10		The Discounted Cash Flow Valuation	S103
Lavenda	Louis	10		Conic Sections	S107
Reilly	Esme	10		The Continuum Hypothesis	S108
Leventhal	Hanah	11		Formulas Involved in the Motion of an Arrow	R111

North Shore MS

Last Name	First Name	Grade	Team	Topic	Room #
Buschfrers	Matias	7		Patterns and Sequences	BR25
Fleming	Michael	7		Coding and Binery Code	BR26
Moses	Tijsen	7		Roller Coasters	BR12
Rush	Rebecca	7		Magic Squares	BR13
Frangopoulos	Angelica	7	Team A	Math in Roller Coasters	SC141
Nochowitz	Matthew	7	Team A	Math in Roller Coasters	SC141
Borom	Brandon	8		Fractals	BR100
Ditrano	Katie	8		Math in Music	BR103
Jasani	Saniya	8		Conic Section	BR105
Lamond	Olivia	8		Tessellations	BR106
McCreery	Evelyn	8		The Four Color Theorem	BR111
Riccardo	Michael	8		Magic Squares	BR112
Scheffel	Ella	8		Geocentrism and Heliocentrism	BR200

Northport MS

Last Name	First Name	Grade	Team	Topic	Room #
Meadows	Zoe	7		Pascal's Triangle	BR12
Schuvart	Austin	7		Fibonacci Sequence	BR26

Oceanside HS

Last Name	First Name	Grade	Team	Topic	Room #
George	Jeremiah	10		Zeno's Paradox	S109
Lisi	Nicholas	10		The Emoji Problem	S201
Risi	Alessandro	10		Analyzing Weapon Statistics in Call of Duty: Modern	S202

Last Name	First Name	Grade	Team	Topic	Room #
Visconti	Sarah	10		The Four Color Theorem	S203
Baghan	Osman	11		Pascal's Triangle and it's Applications	R112
Haertig	Vanessa	11		Acing a Serve in Tennis Using Physics	R206
Hong	Ryan	11		Study of Epidemic Modeling	R213
James	Danielle	11		The Math in Art	SC218
Sanchez	Jacob M	11		The Math Behind Basketball and The 3-Point Shot	HE101
Oceanside MS					
Mascuch	Benjamin	8		The Mathematics Behind Tactical Formations in Soccer	BR202
Oyster Bay HS					
Hom	Jason	11		Trachtenberg Speed System	HE100
Roslyn HS					
Chu	Laura	9		The flow with tennis rankings	GAL242
Fedida	Aviv	9		How math in involved in wrestling	A109
Fein	Hannah	9		Math and Marching band	A200
Garmise	Hannah	9		Math is going viral	A212
Kumar	Chelsea	9		Sine and Cosine waves	D11
Lam	Katie	9		The mathematics of equestial?	D14
lee	Faith	9		Speed of a softball pitch	D15
Lok	Sara	9		The perfect lob	D16
Mashkevich	Joselle	9		Math in tennis serves	D20
Matarangas	Ariana	9		The mathematics of the perfect three point shot	D101
Meng	Alex	9		Geometry of table tennis	GAL13
Popick	Andrew	9		Pythagorean theorem	GAL14
Rosman	Daniel	9		Baseball: reaction time MLB vs LL	GAL16
Weiss	Luke	9		Golden ratio in art and architecture	GAL17
Weissman	Sydney	9		The math of pottery	GAL18
Zarrini	Yael	9		Unsolved Problem How to fit one triangle inside another	GAL242
Zucker	Jordon	9		Triangluar Numbers	A109
Roslyn MS					
Fasanello	Robert	7		Random numbers	BR15
Lam	Kristi	7		Where math meets music	BR16
Mashkevich	Lemmy	7		Herons shortest distance problem	BR18
Nguyen	Emelie	7		Trig	BR20
Sinha	Arya	7		The golden ratio	BR25
Anscher	Emma	8		The monty hall problem	BR203
Barish	Julian	8		How does GPS systems work	BR208
Bishop	Lanie	8		Angle Trisection	BR209
Christenson	Luke	8		Cavalieri's principal	BR28
Corey	Dani	8		Tessellations	BR29
Daniel	Ben	8		The brachistochrone problem	BR100
Dicker	Lilah	8		Geometric Sequences	BR103
Fein	Brooke	8		Math in Music	BR105
Grewal	Jaideep	8		Clock Angles	BR106
Groothuis	Maya	8		Computer Hacking	BR111
Guillon	Luca	8		Area of a regular polygon w/ n sides	BR112

Last Name	First Name	Grade	Team	Topic	Room #
Hoffman	Jake	8		Angle of incidence	BR200
Kahrbanar	Maxamillion	8		Partitioning the plane	BR202
Kim	Trevor	8		Future & Present value of annuities & amortizzation	BR203
Kim	Yesi	8		Investigation of the decreasing frequency of Prime	BR208
Levine	Bennett	8		Conic sections	BR209
Lind	Liam	8		bayes Theorem	BR28
Lui	Daniel	8		3d vector paper	BR29
Mazarin	Ashley	8		High Frequency Trading	BR100
Nercessian	Olivia	8		Riemann Sum	BR103
Rice	Mikey	8		The uses of trig in areospace engineering	BR105
Sehgal	Harshita	8		Calculating the sides of the largest equilateral triangle that	BR106
Spiegelman	Sage	8		Logarithmic spiral	BR111
Ting	Andrew	8		Math Fair?	BR112
Valauri	Sophia	8		Imaginary numbers	BR200
Xu	William	8		The relationship between the incinde and circumcinde of	BR202
Youn	Hailee	8		Calculating the quality of squares and rectangles within an	BR203
Chandra	Sonia	8	Team A	Fractals	C306
Stam	Rylie	8	Team A	Fractals	C306
Litvack	Ian	8	Team B	Eulers paths and circuits	C332
Schwartz	Mac	8	Team B	Eulers paths and circuits	C332
Berlent	Dylan	8	Team C	Cryptology	BR216
Burnt	Jared	8	Team C	Cryptology	BR216
Kessler	Ethan	8	Team D	Game theory	BR217
Milholland	Aidan	8	Team D	Game theory	BR217

Schreiber HS

Last Name	First Name	Grade	Team	Topic	Room #
Fried	Harrison	10		Data Analysis	S204
Guo	Tiffany	10		Atmospheric Statistics	S204A
Helman	Benjamin	10		Physics and Data Analysis	S205
Kobayashi	Wakato	10		Data Analysis	S209
Muratore	Julia	10		Statistics and Data Analysis	S302
O'Neill	Ashley	10		Mathematical Modeling	S304
Ren	Jeannie	10		Machine Learning	S304A
Rosaya	Sabine	10		Statistics and Data Analysis	S305
Shroff	Maansi	10		Data Analysis	S308
White	Julian	10		Statistics	S309
Fain	Jacob	11		Statistics and Data Analysis	L203
Gruber	Zachary	11		Biomedical Devices	L201
Kapoor	Nicolas	11		Semiconductors	L211
Leong	Maya	11		Statistics	MA20
Levin	Emma	11		Mathematical Modeling	MA22
Melkonian	Joseph	11		Game Theory	N18
Pevzner	Allon	11		Statistics	N19
Romanski	Lucas	11		Linear Algebra	N20
Shields	Carter	11		Data Analysis	N21

Last Name	First Name	Grade	Team	Topic	Room #
Smith	Hannah	11		Data Analysis	R15
Upadhyay	Kushal	11		Graph Theory	R101
South Woods MS					
Dadi	Shivane	7		Magic Sqaures	BR26
Dapice	Kyle	7		Math in Roller Coasters	BR13
Dunn	Willow	7		Genetics and Probability	BR12
Fan	Darius	7		Cryptology	BR25
Kopacz	Maya	7		Codes and Ciphers	BR15
Raghu	Ketan	7		Chaos Theory	BR16
Singh	Priyansh	7		Genetics and Probability	BR18
Wu	Abigail	7		Math in Music	BR20
Mepani	Aarian	7	Team A	Pascals Triangle	W100B
Mutyala	Ashok	7	Team A	Pascals Triangle	W100B
Lin	Rachel	7	Team B	Optical Illusions	SC141
Qian	Tiffany	7	Team B	Optical Illusions	SC141
Guo	Sabrina	8		Conic Sections	BR29
Wang	Alex	8		Zeno's paradox	BR100
Jung	Ashley	8	Team A	Photography	C306
Shleimovich	Michele	8	Team A	Photography	C306
Meneshian	Michael	8	Team B	Math in Production	C332
Sethi	Sachi	8	Team B	Math in Production	C332
Desai	Siddarth	8	Team C	Math in Sports: Golf	BR216
Park	Anthony	8	Team C	Math in Sports: Golf	BR216
Syosset HS					
Chu	Michael	9		Proofs in Number Theory	A200
Dapice	Jennie	9		Fair Division	A212
Li	Kevin Y	9		Change Making Problem	D11
Rasquinha	Giselle	9		Mathematics of Voting	D14
Elenowitz	Joshua	10		Stock Market	S310
Hooey	Sarah	10		Pythagorean Theorem	ME10A
Luo	Yan	10		Sleep-Wake Cycle	S103
Mastandrea	Nicholas T	10		BCS Theory	S107
Mittal	Arushi	10		Fractals Geometry	S108
Sinha	Yaashika	10		Artificial Intelligence	S109
Zhao	Lingfei	10		Genetic Algorithms	S202
Zhuo	Alex	10		Automation	S203
Hsu	Allison L	11		Computer Image Analysis	R102
Lam	Thomas	11		Lights Out Puzzle	R109
Younus	Suhail	11		Cryptography	R110
The Wheatley School					
Jain	Siddhant	8		Set Theory	BR209
Lindenauer	Jack	8		Magic Squares	BR28
Potrapeluk	Victoria	8		Perfect Numbers	BR103
Prajapati	Krittika	8		Magic Squares	BR105

Last Name	First Name	Grade	Team	Topic	Room #
Shukla	Kavin	8		Zeno's Paradox	BR106
Yagoda	Jace	8		Fibbonaci Sequence	BR111
Aldad	Adam	9		Gambling and Math	D15
Bansal	Manav	9		Taylor, Power and Geometric Series	D16
Chabria	Anya	9		Fractal Geometry: The Mathematics uniting the Universe	GAL14
Ness	Eric	9		System of Numerations through Histroy	D20
Ajmera	Rahul	10		The Math Behind Doughnuts and Munchkins:	S204
Belle	Alyssa	10		Binary Numbers	S204A
Ramos	Madison	10		The Mathematics Behind Magic	S205
Shah	Diya	10		Boolean Algebra	S209
Vincenzo	Ashley	10		The 2008 Financial Crisis and the Black Scholes Equation	S302
Yagoda	Emily	10		The Math Behind Bitcoin and Cryptocurrencies	S304
Zhong	Sharon	10		Foundation / Support Mathematics	S304A

Thompson MS

Last Name	First Name	Grade	Team	Topic	Room #
Gao	Jordan	7		FourthDimension	BR25
Hon	Griffin	7		Stastics and the Stock Market	BR26
Mehta	Ria	7		Mobius Strip	BR13
Su	Emily	7		Magic Squares	BR12
Katz	Olivia	7	Team A	Infinity	W100B
Millevoi	Rebecca	7	Team A	Infinity	W100B
Chung	Jadon	7	Team B	Magic Squares	SC141
Levy	Brandon	7	Team B	Magic Squares	SC141
Mallen	Jake	7	Team B	Magic Squares	SC141
Chaudri	Sophia	7	Team C	Golden Ratio	W100B
Rishi	Anoushka	7	Team C	Golden Ratio	W100B
Jain	Aryan	8		Pascal' Geometry	BR112
Motaganahalli	Sheyra	8		Probability and Genetics	BR200
Arora	Prisha	8	Team A	Golden Ratio	BR217
Tekriwal	Diya	8	Team A	Golden Ratio	BR217
Huang	Amanda	8	Team B	Math and Music	C332
Zhu	Caroline	8	Team B	Math and Music	C332

Woodland MS

Last Name	First Name	Grade	Team	Topic	Room #
Chinnadurai	Srinidhi	7		Hexaflexagons	BR15
Jojode	Sachin	8		Binary Numbers	BR202
Ahmad	Muhammad	8	Team A	Polynomials	C306
Bukhari	Syed	8	Team A	Polynomials	C306
Bajda	Conrad	8	Team B	Infinity and Zero	BR216
Sattler	Branden	8	Team B	Infinity and Zero	BR216

Woodmere MS

Last Name	First Name	Grade	Team	Topic	Room #
Chavre	Hiral	7		Imaginary Numbers	BR16
Rasheed	Ibrahim	7		Sports Science (Basketball)	BR18
Pathiranage	Sasiru	8		Cryptography	BR209
Chaudhry	Tahreem	8	Team A	The Golden Mean	C306
Zheng	Carrie	8	Team A	The Golden Mean	C306