



*These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.*

**Final Judging Results**

**Award Legend**  
 Plaque Winners = 1, 2, ...  
 Medalists = m  
 Winners = w

**Mathematics Awards**

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Project Title]

**Middle School**

4002 PT Measurement Techniques and Mathematical Analysis of Gum Bubbles

**Award 1** Student(s) **Reagan Reid** Grade 7 Town Bozrah  
**Leah Kozerefski** Grade 7 Town Gilman

- \* Mathematics Awards --- 1st Place Middle School - \$300 and Plaque
- \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion

5009 P7 Impact of prediction methods on the percentage accuracy of a stock forecast.

**Award 2** Student(s) **Alejandro Mayorga** Grade 7 Town Danbury

- \* Lockheed Martin Physical Sciences Awards --- 3rd Place - Physical Sciences 7th Grade Ind. - \$100 & Plaque
- \* Mathematics Awards --- 2nd Place Middle School - \$200 and Plaque
- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- 3rd Place Middle School - \$100 and Plaque, Medallion
- \* Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science

5522 P8 The Connection of Coronal Mass Ejections and Sunspots

**Award 3** Student(s) **Marcus Rosario** Grade 8 Town Bridgeport

- \* Lockheed Martin Physical Sciences Awards --- 5th Place - Physical Sciences 8th Grade Ind. - Plaque
- \* Mathematics Awards --- 3rd Place Middle School - \$100 and Plaque

**High School**

6024 PS On the smallest (n-1)-gon containing a convex n-gon

**Award 1** Student(s) **Keun Hyong Kwak** Grade 11 Town Gangnam-gu

- \* Mathematics Awards --- 1st Place High School - \$500 and Plaque
- \* Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF

6071 PS Cloud Identification in Mars Daily Global Maps with Deep Learning

**Award 2** Student(s) **Sebastian Mengwall** Grade 12 Town Darien

- \* Lockheed Martin Physical Sciences Awards --- 5th Place - Physical Sciences Senior High Individual - Plaque
- \* Mathematics Awards --- 2nd Place High School - \$300 and Plaque
- \* Computer Science Awards --- Senior High Finalist - Medallion
- \* Raytheon Corporation Awards --- \$500, Plaque
- \* MapleSoft Awards for Applied Mathematics and Modeling --- For excellence in Mathematics and Modeling - Maple Software and T-shirt



# Connecticut Science & Engineering Fair

## Quinnipiac University

March 7 - 19, 2022

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### Final Judging Results

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### Mathematics Awards

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Project Title]

6056 PS A Wavelet-based Method for Generalizing Molecular Latent Spaces for Assisted Traversal

**Award** 3 **Student(s)** Ian Murdock **Grade** 12 **Town** Ridgefield

- \* Mathematics Awards --- 3rd Place High School - \$200 and Plaque
- \* Connecticut Association of Physics Teachers --- \$100 Senior project

3059 LS The Influence of Social Capital on Covid-19 Vaccine Hesitancy

**Award** m **Student(s)** Zara Haque **Grade** 9 **Town** Riverside

- \* Mathematics Awards --- High School Finalist - Medallion
- \* MapleSoft Awards for Applied Mathematics and Modeling --- For excellence in Mathematics and Modeling - Maple Software and T-shirt

6014 PS On the Casas-Alvero's Conjecture

**Award** m **Student(s)** Jiaxuan Su **Grade** 10 **Town** Shanghai

- \* Mathematics Awards --- High School Finalist - Medallion
- \* Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF

6079 PS Introduction to Surreal Numbers: Exploring Real, Infinite and Infinitesimal Values and Their Hackenbush Games

**Award** m **Student(s)** Yat Him Cyrus Wong **Grade** 12 **Town** Hong Kong

- \* Mathematics Awards --- High School Finalist - Medallion
- \* Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF