8th Annual
Douglas Middle School
Science and Engineering Fair

Thursday, March 29, 2017
6:15-7:00 PM
Douglas Middle School Gymnasium

Welcome to our 8th Annual Douglas Middle School Science and Engineering Fair! Science and engineering fairs provide students with the opportunity to investigate real world science and engineering topics of their choice through hands-on experimentation and exploration. Participation in this process has also strengthened the students' skills involving reading, writing, research, project design, mathematical application, communication, oral presentation, teamwork, and creativity; all of which will help to prepare them for success in college and the workplace. This year's topics reflect the students' varied interests, including: basketball, candy, disinfectants, fertilizers, hydraulics, iPads, music, plants, spherification, and vision.

All of our 6th grade students completed projects this year as part of their course requirement with careful guidance by Mrs. Bronzo in class. The 7th and 8th grade students who have their work displayed chose to participate in Science Fair this year as an enrichment opportunity, meeting about once per week with Mrs. GravesonPayne for guidance, but completing the majority of the work on their own. We are so proud of the hard work all of the students put into their projects both in and out of school!

We truly appreciate your interest and support! We encourage you to ask the students about their projects so they can explain what they have learned. Thank you and enjoy the projects!

Douglas Science and Engineering Fair Team
Shannon Bronzo, Grade 6 Science Teacher
Karen Cristian, Grade 7 Science Teacher
Kelly GravesonPayne, Grade 8 Science Teacher
Brian Delaney, Principal
Cindy Socha, Director of Curriculum
Kevin Maines, Superintendent

Science and Engineering Fair Projects

Grade 6-A Block

Project #	Experimenters	Project
1	Riesse Boisvert, Adam Dunphy, and Logan Visser	Turning Milk Into Plastic
2	Sabrina Carvalho, Kallie Keating, and Kayley Quetta	Bouncy Polymer Chemistry
3	Ethan Chisholm, Louis Makela, and Grace Parker	Coloring Carnations
4	Gavin Delgado, Aidan Kelleher, and Gavin Morin	Soap Experiment
5	Matthew Demoura, Emma Hennessy, Katie Huff, and Taylor Lundquist	Laundry Detergent and Stain Removal
6	Oxbow Grier, Baron Sherry, and Tyler Stevens	Slinking Slinkies
7	Brady Nolan, Dominic Rossi, and Owen Thibodeau	How Greasy Are Your Potato Chips?
8	Julia Oskirko, Joshua Pope, Haileigh Recore, and Sarah Wirrell	Great Globs Of Gluten

Grade 6-B Block

9	Amanda Audette, Mary Chrul, and Sophie Robertson	Turning Milk Into Plastic
10	Vincent Bartolucci, Landon Parent, and Curtis Rondeau	Pencil Resistors
11	Mackenzie Covell and Delaney Yorke	How Salty Does The Sea Have To Be For An Egg To Float?
12	Christopher Dame, Matthew Doyle, Owen Gray, and Gavin Gualtieri	Crystal Chemistry
13	John Demoura, Ryan Gagnon, Daniel Jackson, and Donovan McCarthy	How Far Will It Fly?
14	Isaac Gosselin, Andrew Hogan, and Lucas Schimmelpenningh	Batteries: The Shocking Truth
15	Samantha Loy, Shannon Malley, and Molly Stinchfield	How Salty Does The Sea Have To Be For An Egg To Float?
16	Chloe McDonald and Breanna Reneau	Mag-nificent Breakfast Cereal
17	Marcus O'Brien, Drew Smith, and Brayden Wilcox	Bouncy Polymer Chemistry

Grade 6-C Block

Project #	Experimenters	Project
18	Rylee Bennett, Giana Cheli, Ava Sabatino, and Lucas Zurowski	Bubble-ology
19	Darius Buivydas, Linas Buivydas, and Brody Joyal	How Much Salt Does The Sea Need To Be For An Egg To Float?
20	Jessica Bullis, Isabella Calkins, Cody Melvin, and Skyler Robinson	Crazy Crystal Creations
21	Wesley Burns, Tristan Meech, and Nolan Shayer	Turn Milk Into Plastic!
22	Jailyn Caulfield, Brooke Cimochowski, Aiden Conley, and Avelin Stockwell	The Effect of Temperature on Glow Sticks
23	Joshua Farrell, Aidan Losiewicz, and Evan Wheeler	How Much Energy Does Dribbling Take?
24	Adam Ranslow, Ryan Sheldon, Bela Sullivan, and Dominic Turgeon	A Magnifying Discovery

Grade 6-D Block

25	Ashley Arnold, Olivia DeLuca, and Maia Tyra	Store-Bought Filters Vs. Natural Filters
26	Jacob Baca, Benjamin DeBaggis, and John Kearney	Pencil Resistors
27	Cameron Beckwith, Kyle Bernard, and Aiden LeBoeuf	How Salty Does The Sea Have to be for an Egg to Float?
28	Cadence Bouchard, Alana Pierpont, and Nathan Smith	Turning Milk Into Plastic
29	Alex Fano, Ryan Lockhart, and Jeffrey Trychon	Make Flowers Last Longer
30	Kaytlin Forget, Taylin Fragala, and Ava Lemire	Disinfectants: The Best One To Use
31	Noah Gaskill, Logan Hooper, and Colin Squier	Bouncy Polymer Chemistry
32	William George, William Hogan, and Ethan Vassar	Measuring Surface Tension of Water with a Penny

Grade 6-E Block

33	Laney Beahn, Erika Our, and Cecelia White	How Well Do Different Materials Create Static Electricity?
34	Caleb Benoit, Aidan Dube, and Ethan Messier	Magnificent Silly Putty
35	Hadley Gavan, Emilee Hamelin, and Gabrielle Rivard	How Greasy Are Your Potato Chips?
36	Colton Howard, Colin Loehr, and Jonah Rosenkrantz	Turning Milk Into Plastic
37	Holly Kaczor, Kayla Morrison, and Kendra Rowe	Color Changing Carnations
38	Samuel Lopez, Jace Rose, Caden Roy, and Maximilian Thompson	Crazy Crystal Creations
39	William Peterson, Matthew Phelps, and Alexander Wheeler	Bouncy Polymer Chemistry

Grade 7-Enrichment

Project #	Experimenters	Project
40	Griffin Berard and Michael O'Toole	A Battery That Makes Cents
41	Nicole Guthenberg, Caroline Ramsdell, and Kate Wall	The Science Behind Afterimages
42	Emma Hutnak and Meghan Moulder	Making Maple Syrup Candy: How Does Temperature Affect It?
43	Jordan Provost and Ariana Sacco	Juice Balls: The Science of Spherification
44	Brianna Taylor	Chloroplasts and Salty Cells: Effects of Rising Oceans on Freshwater Plants

Grade 8-Enrichment

45	Zoey Beahn and Mackenzie Gray	iPad vs Paper
46	Zophia Cherrier	Fertilizer Frenzy
47	John Dariotis	Hydraulic Fluids: Which Performs Best?
48	Logan Hampson, Alexis Levesque, and Brianna Taft	Which Toothpaste is the Best for Removing Stains?
49	Peter King, Bryan Wheeler, and Joshua Zetlan	Balloon Boats
50	Chayse Mitchell	Musical Memory: Does Music Affect Memory?

Thank You to Our Volunteer Science and Engineering Fair Judges!

Mac Andrews
David Berchem
Andrew Bishop
Melanie Brundage
Braxton Corey
Lynn Johnson
Michael LaTour
Lisa Lafortune
Elaine Loehmann
Faye Manyak
Tony Mattscheck
Melissa McGovern
Susan Nichols
Lauren O'Hearne
David Payne
Ed Reber
Ryan Rusack
Donna Taylor

DHS Students and Graduates
(Many of Whom Were Also Past Douglas Science Fair Participants)
Tiyana-Marie Bassim
Connor Brown
Natalie Champagne
Audrey George
Maureen Grady
Alexa Gresian
Devin Haire
Emma Havalotti
Kelly Hayes
Brynn Hurley
James Kaye
Jenna Keeman
Garrett Lafortune
Julia Pepka
Erin Theroux

Douglas Public School District
Excellence in Education

We also thank our cafeteria staff for providing judge refreshments, our custodial staff for setting up and breaking down our tables, the teachers and paraprofessionals for being flexible and helpful throughout the process, parents for their support, and the wonderful Ms. Cheri Osterman for everything she does to help things run smoothly!