

UNIT 1

Behavioral 7

Breiseth 013

Mia Perri, Grade 7, **How Many Numbers Can You Remember?** , Carbondale AHS, Jessica Trichilo, Sponsor
Makenzi McDermott, Grade 7, **Effect of Advertisements on People's Perceptions** , Mid Valley SC, Joe Rovinsky, Sponsor
Abigail Haggerty, Grade 7, **Does Age Affect Memory** , St Clare/St Paul, Lisa Owens, Sponsor
Nora Davis, Grade 7, **The Stroop Effect** , St Clare/St Paul, Lisa Owens, Sponsor
Sarah Parry, Grade 7, **Creativity among genders** , Carbondale AHS, Jessica Trichilo, Sponsor
Alyssa Cosklo, Grade 7, **Do External Factors Affect Testing Outcomes?** , Carbondale AHS, Jessica Trichilo, Sponsor
Gabiella Randazzo, Grade 7, **Does Gender Affect the Ability to Solve Picture Puzzles?** , St Nicholas St. Mary, Janice Szczechowicz, Sponsor
David McIntyre, Grade 7, **Stressed Out** , St Clare/St Paul, Lisa Owens, Sponsor
Matthew Cobb, Grade 7, **Basketball Indoors vs Outdoors** , Our Lady of Peace, Dan Banicky, Sponsor
Dominica Delayo, Grade 7, **Remarkable Reading Strategies** , Our Lady of Peace, Dan Banicky, Sponsor
Julia Curran, Grade 7, **Candy Madness** , Our Lady of Peace, Dan Banicky, Sponsor
Michael Watkins, Grade 7, **"Font"astic Memory** , St Clare/St Paul, Lisa Owens, Sponsor
Molly Devine, Grade 7, **How the Weather Affects Your Mood** , Our Lady of Peace, Dan Banicky, Sponsor

UNIT 2

Behavioral 7 & 8

Breiseth 014

Caitlin Bestrycki, Grade 7, **Do Men and Women see the World Differently** , St Clare/St Paul, Lisa Owens, Sponsor
Allie Farrell, Grade 7, **How does the color of food effect taste?** , Our Lady of Peace, Dan Banicky, Sponsor
Sadie Zehner, Grade 7, **Can a Mental Distraction Relieve Pain?** , Berwick AMS, Todd Gunther, Sponsor
Madalyn Piwowarski, Grade 7, **Would You Rather?** , Lakeland JSHS, Dawn DeQuevedo, Sponsor
MacKenzie Jackson, Grade 7, **Zodiac Feelings** , Fell Charter School, Michael Rescigno, Sponsor
Kelsey Green, Grade 7, **Stroop Effect, Gender, and Dyslexia** , Berwick AMS, Todd Gunther, Sponsor
Macey Pennay, Grade 7, **Diffusing the Spectrum** , Our Lady of Peace, Dan Banicky, Sponsor
Julia Webb, Grade 7, **Do Sweets Increase Your Academic Performance?** , Fell Charter School, Jamie Seymour, Sponsor
Vincent Pan, Grade 8, **Setting Goals For Better Performance** , Holy Family Acad, John Mardyniak, Sponsor
Emily Haikes, Grade 8, **"The Power of Suggestion"** , All Saints Acad, Christine Hopkins, Sponsor
Jordan Kopac, Grade 8, **The Stroop Effect With Shapes** , Berwick AMS, Todd Gunther, Sponsor
Emma Yusavage, Grade 8, **How Does Color Influence People's Decisions?** , Mid Valley SC, Joe Rovinsky, Sponsor
Ashley Katchmar, Grade 8, **Does Hair Color Affect Intelligence?** , Old Forge, Chris Gatto, Sponsor

UNIT 3

Behavioral 8

Breiseth 105

Mason Hemak, Grade 8, **The scoop on Stroop** , St Clare/St Paul, Lisa Owens, Sponsor
Kathleen Lynott, Grade 8, **Does Color Affect Pulse Rate?** , St Clare/St Paul, Lisa Owens, Sponsor
Maryanna Betterly, Grade 8, **Lighting's Affect on People** , Berwick AMS, Todd Gunther, Sponsor
Emma Troy, Grade 8, **Easily Distracted** , St Clare/St Paul, Lisa Owens, Sponsor
Noah Long, Grade 8, **How stress effects the body** , MMI Prep, Michael Mele, Sponsor
Patrick Kennedy, Grade 8, **The Way You Learn: Sight or Sound?** , St Clare/St Paul, Lisa Owens, Sponsor
Jadelyn Van Winkle, Grade 8, **Gender's Effect on Frequency** , Pocono Mt East HS, Maureen Elswick, Sponsor
Andrew Maddock, Grade 8, **Testing Formats** , Our Lady of Peace, Dan Banicky, Sponsor
Lily Pavuk, Grade 8, **Better Grades with Breakfast?** , Our Lady of Peace, Dan Banicky, Sponsor
Audrey Munley, Grade 8, **Brighten Your Day** , Our Lady of Peace, Dan Banicky, Sponsor
Deana Mancuso, Grade 8, **The effect of color of physical objects on memory** , Carbondale AHS, Jessica Trichilo, Sponsor
Genevieve Kinney, Grade 8, **Colors and Memory!** , Berwick AMS, Todd Gunther, Sponsor
Aaliyah Sayed, Grade 8, **Are childproof containers really childproof?** , St Jude Mountain Top, Marilyn Baran, Sponsor

UNIT 4

Behavioral 8

Breiseth 106

Robert Kretschmer, Grade 8, **How Does Color Affect Memory?** , Honesdale HS, Rebecca Kretschmer, Sponsor
Marina Rinkunas, Grade 8, **Same Colors, Different Days** , Our Lady of Peace, Dan Banicky, Sponsor
Jamie Bryan, Grade 8, **The Effects of Diet on Saliva pH** , Western Wayne MS, Christine McClure, Sponsor
Lilia Kaczmarzyk, Grade 8, **Gender's Effect on Observation** , Pocono Mt East HS, Maureen Elswick, Sponsor
Willa Farrell, Grade 8, **The "Active" Mind: Does Exercise Effect Memory?** , Our Lady of Peace, Dan Banicky, Sponsor
Caroline Welby, Grade 8, **Personality and Birth Order** , St Clare/St Paul, Lisa Owens, Sponsor
William Ritsick, Grade 8, **Male vs. Female The Ultimate Speaking Showdown** , Wyoming Seminary LS, Lisa Iskra, Sponsor
Rose Hayward, Grade 8, **Gender Study** , St Nicholas St. Mary, Janice Szczechowicz, Sponsor
Diala Hassan, Grade 8, **What is the Better Motivation; Discipline or Rewards?** , Western Wayne MS, Christine McClure, Sponsor
Nicole Nicholas, Grade 8, **Warped Words and the Stroop Effect** , LaSalle Acad, Lisa Vladicka, Sponsor
Nicholas Freeswick, Grade 8, **Reactions to Stress** , Mid Valley SC, Joe Rovinsky, Sponsor
Peter Khoudary, Grade 8, **Trust Me, It Works** , Good Shepherd Acad, Janice Ambrulavage, Sponsor
Emily Getty, Grade 8, **Puzzling Over Music** , Berwick AMS, Todd Gunther, Sponsor

UNIT 5

Behavioral 8 & 9

Breiseth 107

Taylor Mazza, Grade 8, **Use It or lose it: Dancing Makes You Smarter** , Carbondale AHS, Jessica Trichilo, Sponsor
Gavin Bednarz, Grade 8, **Water Brands Test** , Our Lady of Peace, Dan Banicky, Sponsor
Claudia Pritchik, Grade 8, **Taste Test** , Our Lady of Peace, Dan Banicky, Sponsor
Melinda Ciero, Grade 8, **Heart Rate While Testing** , South Scranton IS, Katona Miller, Sponsor
Collin Dougherty, Grade 8, **Font and Memory** , Good Shepherd Acad, Janice Ambrulavage, Sponsor
Maggie Mills, Grade 8, **Brain Freeze** , Our Lady of Peace, Dan Banicky, Sponsor
Julia Kelly, Grade 8, **Halo effect** , Carbondale AHS, Jessica Trichilo, Sponsor
Olivia Manarchuck, Grade 9, **The Control Center** , Carbondale AHS, Jessica Trichilo, Sponsor
Dana Pratt, Grade 9, **Does the label affect the taste?** , Honesdale HS, Rebecca Kretschmer, Sponsor
Jarred Rosar, Grade 9, **The Gender of Congress** , Carbondale AHS, Jessica Trichilo, Sponsor
Michaela McLaughlin, Grade 9, **Are You All Right?** , Carbondale AHS, Jessica Trichilo, Sponsor
Katie Costa, Grade 9, **Testing the Effects of Cell Phone Use on Reaction Time** , Scranton Prep, Bridget Kotchick, Sponsor
Cora Heenan, Grade 9, **I Can See It In Your Eyes.** , Carbondale AHS, Jessica Trichilo, Sponsor

UNIT 6

Behavioral 9

Breiseth 108

Thomas Betterly, Grade 9, **Personality Impression Formation** , Marian Catholic, Lorraine Piehota, Sponsor
Johnny Watkins, Grade 9, **do you hear what I hear?** , Scranton Prep, Bridget Kotchick, Sponsor
Jessiel Castillo Espinal, Grade 9, **How good is your memory.** , Hazleton AHS, Jeff Koch, Sponsor
Brooke Weiss, Grade 9, **Beauty is the Beast** , Crestwood SD, Jean Zanolini, Sponsor
Emma Jones, Grade 9, **Shaping Your Thoughts** , Carbondale AHS, Jessica Trichilo, Sponsor
McKinley Borders, Grade 9, **Does Chewing Gum Affect Performance?** , Carbondale AHS, Jessica Trichilo, Sponsor
Lily Smith, Grade 9, **Are Childproof Locks Really Child Proof?** , Scranton Prep, Bridget Kotchick, Sponsor
Khaya Fuller, Grade 9, **Multitasking** , Mid Valley SC, Joe Rovinsky, Sponsor
Dushaun Thompson, Grade 9, **Effect of Reinforcement on Test Scores** , Pocono Mt East HS, Michael Blough, Sponsor
Izabella Chmil, Grade 9, **What You See Is What You Taste** , Lakeland JSJS, Dawn DeQuevedo, Sponsor
Madison Cost, Grade 9, **Politically Correct?** , Carbondale AHS, Jessica Trichilo, Sponsor
Trina Barcarola, Grade 9, **The Effects of Weather on Heartrate** , Western Wayne HS, Christine McClure, Sponsor

Alison Anilosky, Grade 9, **Color My Memory** , Marian Catholic, Lorraine Piehota, Sponsor

UNIT 7

Behavioral 10

Breiseth 205

Taylor Bertram, Grade 10, **Verbal Vs Nonverbal Cues** , Pocono Mt West HS, Susan Thackara, Sponsor
Grace Mussoline, Grade 10, **Self-Esteem Comparison** , Marian Catholic, Lorraine Piehota, Sponsor
Rory Misko, Grade 10, **It's All About the Consequences** , Carbondale AHS, Jessica Trichilo, Sponsor
Amanda Houser, Grade 10, **Can Music Effect Heart Rates?** , Hazleton AHS, Jeff Koch, Sponsor
Megan Wallis, Grade 10, **Looking Beyond the Image: Visual Pareidolia** , Carbondale AHS, Jessica Trichilo, Sponsor
Dominique Preate, Grade 10, **Guess Who: Family Edition!** , Scranton Prep, Bridget Kotchick, Sponsor
Nick Carrato, Grade 10, **Subject Intimidation** , MMI Prep, Sue Moyer, Sponsor
Karlea Allen, Grade 10, **To be Healthy or not to be Healthy** , Berwick AHS, Todd Gunther, Sponsor
Madison Weiss, Grade 10, **The Breadbasket, Income, and Desires** , Crestwood SD, Jean Zanolini, Sponsor
Emily Leggiero, Grade 10, **How Does Stress Affect the Human Body?** , North Pocono HS, Glenn Pettinato, Sponsor
Jessica Borders, Grade 10, **Are You Left or Right Sided?** , Carbondale AHS, Jessica Trichilo, Sponsor
Maya Black, Grade 10, **The Effects of Eye Color on Vision** , Western Wayne HS, Christine McClure, Sponsor
Astrid Paz, Grade 10, **Improving Memory by Story Linking** , Carbondale AHS, Jessica Trichilo, Sponsor

UNIT 8

Behavioral 9 & 10

Breiseth 206

Brianna Cook, Grade 9, **Do People See You Different Than You See Yourself?** , Pocono Mt East HS, Michael Blough, Sponsor
Noah Newcomb, Grade 9, **Do Athletes Prefer a Specific Sports Drink** , Carbondale AHS, Jessica Trichilo, Sponsor
Cassandra Nocera, Grade 9, **Does gum help you focus more while studying?** , Old Forge, Chris Gatto, Sponsor
Carissa DeLucca, Grade 9, **What happens to your heart rate when playing video games** , Old Forge, Chris Gatto, Sponsor
Ezekiel Milot, Grade 9, **Does Music Make You An Unsafe Driver** , Hazleton AHS, Jeff Koch, Sponsor
Tess Reilly, Grade 9, **How Does Stress Affect Your Sleep?** , Mid Valley SC, Joe Rovinsky, Sponsor
Marissa Jason, Grade 9, **Is Eyewitness Testimony Accurate?** , Holy Redeemer HS, Kelsey Reyes, Sponsor
Miranda Fritz, Grade 9, **Overdressed?** , Honesdale HS, Rebecca Kretschmer, Sponsor
John Piorkowski, Grade 9, **How Many Digits Can A Person Remember?** , Mid Valley SC, Joe Rovinsky, Sponsor
Hannah Lisowski, Grade 9, **Analyzing Personality Based on Birth Order** , Old Forge, Chris Gatto, Sponsor
Vanessa Sawyer, Grade 9, **Does Font Affect Memory?** , Carbondale AHS, Jessica Trichilo, Sponsor
Lanie Gray, Grade 9, **Phantom Feelings** , Mid Valley SC, Joe Rovinsky, Sponsor
Amber Goffredo, Grade 10, **Which Color Text Will Affect Memory the Most?** , North Pocono HS, Glenn Pettinato, Sponsor

UNIT 9

Behavioral 10 & 11

Breiseth 207

Kristina Gorel, Grade 10, **Personality Assessment: Birth Order and Behavior** , Carbondale AHS, Jessica Trichilo, Sponsor
Paige Barillo, Grade 10, **Does Exercise Improve Your Overall Happiness?** , Western Wayne HS, Christine McClure, Sponsor
Megan Fay, Grade 10, **The Positive Effects of Chewing Gum** , Hazleton AHS, Jeff Koch, Sponsor
Meghan Darrough, Grade 10, **Car-aoke** , Marian Catholic, Lorraine Piehota, Sponsor
Gianna DeBastiani, Grade 10, **Motion Affecting Memory** , Western Wayne HS, Christine McClure, Sponsor
Lauren Fletcher, Grade 10, **Gender Comparison: Personality** , Wyoming Seminary US, Andrea Nerozzi, Sponsor
Jacob Adams, Grade 10, **Does Color affect Favorability?** , Honesdale HS, Rebecca Kretschmer, Sponsor
Jessica McClellan, Grade 10, **What was that Commercial About?** , MMI Prep, Michael Mele, Sponsor
Emily Rouse, Grade 10, **The Stroop Effect** , North Pocono HS, Glenn Pettinato, Sponsor
Grace Berlew, Grade 10, **Decisions Decisions** , Scranton Prep, Bridget Kotchick, Sponsor
Kelisa Hysenbegasi, Grade 10, **The Physiologic Stress Response to Animals** , MMI Prep, Michael Mele, Sponsor

Maricruz Saucedo, Grade 11, **Does Time Perception Change as We Get Older?** , Old Forge, Chris Gatto, Sponsor
Adrianna Bohman, Grade 11, **Can personality type be predicted by music preference?** , Hazleton AHS, Jeff Koch, Sponsor

UNIT 10

Behavioral 11

Cohen 226

Ria James, Grade 11, **"Do dogs have an effect on human blood pressure?"** , Pocono Mt West HS, Susan Thackara, Sponsor
Kirstin Metschulat, Grade 11, **Do The Eyes Have It?** , Western Wayne HS, Christine McClure, Sponsor
Paige Gould, Grade 11, **Is a Lie in the Details?** , Crestwood SD, Joseph Chmiola, Sponsor
Gabrielle Miranda, Grade 11, **Differences in Male and Female Brains When Processing Color** , Pocono Mt East HS, Michael Blough, Sponsor
Laura Miller, Grade 11, **Beauty Standards: Men Vs Women** , Crestwood SD, Bill Kane, Sponsor
Caitlin Falloon, Grade 11, **The Effects of Color on Taste** , Western Wayne HS, Christine McClure, Sponsor
Sofia Losen, Grade 11, **Read My Eyes** , Hazleton AHS, Jeff Koch, Sponsor
Amelia Zazzera, Grade 11, **Gender Conformity** , Carbondale AHS, Jessica Trichilo, Sponsor

UNIT 11

Behavioral 11

Cohen 227

Katelyn Dovin, Grade 11, **Written In The Stars** , Carbondale AHS, Jessica Trichilo, Sponsor
Christina Carachilo, Grade 11, **Do Athletes Really Have Better Reflexes?** , Carbondale AHS, Jessica Trichilo, Sponsor
Amanda Katchmar, Grade 11, **Music and Short-Term Memory** , Old Forge, Chris Gatto, Sponsor
Gabriel Ramos, Grade 11, **Social Media: Oh, What a Feeling!** , North Pocono HS, Glenn Pettinato, Sponsor
Victoria Booth, Grade 11, **Beyond the Surface: A Look into Brain Games and Our Minds** , Old Forge, Chris Gatto, Sponsor
Mallory Jablon, Grade 11, **Gender Stereotypes in Children** , Western Wayne HS, Christine McClure, Sponsor
Faith Templeton, Grade 11, **Inside the Brain of a Musician** , Berwick AHS, Todd Gunther, Sponsor
Olivia Regal, Grade 11, **The Nose Knows** , Carbondale AHS, Jessica Trichilo, Sponsor

UNIT 12

Behavioral 12

Breiseth 211

Rebecca Schell, Grade 12, **Paper or Computer: Does it affect us?** , Hazleton AHS, Jeff Koch, Sponsor
Olivia D'Amore, Grade 12, **Too many choices!** , Honesdale HS, Rebecca Kretschmer, Sponsor
Jessica Kasper, Grade 12, **Does Color Affect Taste?** , Mid Valley SC, Joe Rovinsky, Sponsor
Paul Jason, Grade 12, **Monkey See, Monkey Do: The Effects of Mob Mentality** , Holy Redeemer HS, Kelsey Reyes, Sponsor
Noelle Arcaro, Grade 12, **Can Music Reduce Cognitive Dissonance?** , Mid Valley SC, Joe Rovinsky, Sponsor
Noelle Arcaro, Grade 12, **Do Positive Affirmations Really work?** , Mid Valley SC, Joe Rovinsky, Sponsor
Chelsie Jones, Grade 12, **Interpreting Data: Maps vs. Graphs** , Carbondale AHS, Jessica Trichilo, Sponsor
Jessica Kasper, Grade 12, **Phantom Feeling** , Mid Valley SC, Joe Rovinsky, Sponsor
Julia Randazzo, Grade 12, **Cognitive Resilience in the Aging Brain** , Holy Redeemer HS, Kelsey Reyes, Sponsor
Emily Ritter, Grade 12, **Stress Levels of Shelter Cats from Olfactory Stimulation** , Honesdale HS, Rebecca Kretschmer, Sponsor

UNIT 13

Biochemistry 8

Stark 227

Jenna Beach, Grade 8, **Electrolyte Challenge: Orange Juice VS Sports Drink** , North Pocono MS, Larry Dombek, Sponsor
Maggie Brown, Grade 8, **Everlasting Cough Drop?** , North Pocono MS, Larry Dombek, Sponsor
Patrick DelBalso, Grade 8, **Guzzle Some Electricity** , Good Shepherd Acad, Janice Ambrulavage, Sponsor
Dennis Kramer, Grade 8, **Does The Temperature of O.J. Affect Its Vitamin C Level?** , Freeland MS, Christopher Parise, Sponsor
Olivia Garibaldi, Grade 8, **Does Heating Fruit Destroy Its Potential Vitamen C Levels?** , North Pocono MS, Larry Dombek, Sponsor
Sydney Kohl, Grade 8, **DNA in Fruit** , MMI Prep, Todd Ronco, Sponsor
Jenna Topa, Grade 8, **How Do Liquids Impact Dissolving Rate of Vitamins?** , North Pocono MS, Larry Dombek, Sponsor

UNIT 14**Biochemistry 7 & 9****Stark 238**

Daniel Bohenek, Grade 7, **Extracting DNA from Spinach** , St Clare/St Paul, Lisa Owens, Sponsor
Nicolette Hine, Grade 7, **Which Toothpaste Whitens Your Teeth Best?** , North Pocono MS, Larry Dombek, Sponsor
Rianna Ambosie, Grade 9, **The effect of heat on lactase enzyme activity** , Crestwood SD, Jean Zanolini, Sponsor
Megan Winslow, Grade 9, **Biodegradability of Plastics** , North Pocono HS, Glenn Pettinato, Sponsor

UNIT 15**Biochemistry 10****Breiseth 311**

Zachary Young, Grade 10, **It's Moo-tricious: Determining The Amount of Protein in Milk** , MMI Prep, Michael Mele, Sponsor
Julia Horchos, Grade 10, **Shell Shocked** , Scranton Prep, Bridget Kotchick, Sponsor
Zachary Blau, Grade 10, **Which species of shellfish has the highest resistance to aci** , Mid Valley SC, Joe Rovinsky, Sponsor
Collin Ennis, Grade 10, **The Best Soap** , Scranton Prep, Bridget Kotchick, Sponsor
Kaylee Magda, Grade 10, **The Denaturation of Liquid Milk** , Holy Cross HS, Kimberly Mecir, Sponsor
Mia Gianello, Grade 10, **Break it Down** , Scranton Prep, Bridget Kotchick, Sponsor
Lizzy Borchick, Grade 10, **What's Your Favorite Beverage Doing to You?** , MMI Prep, Todd Ronco, Sponsor
Olivia Zehel, Grade 10, **Effects of NaHCO₃ and Light on the Rate of Photosynthesis** , Holy Cross HS, Kimberly Mecir, Sponsor
Robert Gray, Grade 10, **A Comparison Study of Reaction Rates of Catalase** , Mountain View HS, Erin Rupp, Sponsor
Moyasar Osman, Grade 10, **Biofuels: Using Mushrooms to Create Alternative Fuels** , Wyoming Seminary US, Andrea Nerozzi, Sponsor

UNIT 16**Biochemistry 11 & 12****Breiseth 316**

Megan Purcell, Grade 11, **Denaturing Proteins** , Scranton Prep, Bridget Kotchick, Sponsor
Eve Kornblatt, Grade 11, **The Effect of Lipase on Neurocellular Conductivity** , MMI Prep, Michael Mele, Sponsor
Garrett Kost, Grade 12, **Effects of Fracking Fluid on Plant Growth** , MMI Prep, Michael Mele, Sponsor

UNIT 17**Biology 8****Breiseth 320**

Winston White, Grade 8, **Where Does Fungus Want to be Among Us?** , Our Lady of Peace, Dan Banicky, Sponsor
Roshan Forde, Grade 8, **StimulantsEffect on Heart Rate** , Pocono Mt East HS, Maureen Elswick, Sponsor
Bridget Tost, Grade 8, **Music's Effect on Logical Ability** , Wyoming Seminary LS, Lisa Iskra, Sponsor
Morgan Costa, Grade 8, **Catch Your Breath** , St Clare/St Paul, Lisa Owens, Sponsor
Marissa Matteo, Grade 8, **How Does Temperature Affect Enzyme Catalyzed Reactions** , West Scranton HS & MS, Frank Wahl, Sponsor
Vanessa Pinto, Grade 8, **Tea-Caff** , Holy Rosary Sch, Lisa Casey, Sponsor
Ryliann Mcallister, Grade 8, **Are Fingerprint Patterns Inherited Between Siblings?** , St Clare/St Paul, Lisa Owens, Sponsor
Vincent Baldassano, Grade 8, **The Effect of SCUBA Diving On the Human Eye** , Wyoming Seminary LS, Lisa Iskra, Sponsor
Rebecca Ottensman, Grade 8, **Disinfecting Water** , Greater Nanticoke AHS, Amanda Schraeder, Sponsor
Matthew Yanochko, Grade 8, **Mold Growth Comparison** , Freeland MS, Christopher Parise, Sponsor
Thomas Dickinson, Grade 8, **How much bacteria is on a store conveyor belt at checkout** , Our Lady of Peace, Dan Banicky, Sponsor
Zahra Chittalia, Grade 8, **How Does Age Affect the Human Brain?** , Wyoming Seminary LS, Lisa Iskra, Sponsor
Maxwell Schwabe, Grade 8, **Comparing The Amount Of Catalase In Fruits And Vegetables** , Holy Family Acad, John Mardyniak, Sponsor

UNIT 18**Biology 7 & 9****Cohen Science Center 202**

Maya Hemak, Grade 7, **Now You See It, Now You Dont** , St Clare/St Paul, Lisa Owens, Sponsor
Seth Rockovich, Grade 7, **Green House Effect** , West Hazleton Elem MS, Marian Pollack, Sponsor
Gia Lettieri, Grade 7, **Is Your Dominant Hand More Sensitive To Pain?** , St Clare/St Paul, Lisa Owens, Sponsor

Aj Ambrosecchia, Grade 7, **Are Fingerprint Patterns Inherited from Parents?** , North Pocono MS, Larry Dombek, Sponsor
Jaden Ball, Grade 7, **Inbred Issues in Guppies** , Lakeland JSHS, Dawn DeQuevedo, Sponsor
Emily Kelly, Grade 7, **Are Fingerprint Patterns Inherited?** , Carbondale AHS, Jessica Trichilo, Sponsor
Samantha Collins, Grade 7, **The White One** , Holy Rosary Sch, Lisa Casey, Sponsor
Kimberly Aldrich, Grade 9, **Effect of Light on Dinoflagellates' Circadian Rhythms** , Holy Redeemer HS, Kelsey Reyes, Sponsor
Calista Walk, Grade 9, **Could Nanosilver in Consumer Products Affect Pond Life?** , Greater Nanticoke AHS, Amanda Schraeder, Sponsor
Cindy Perricone, Grade 9, **The Golden Ratio** , Honesdale HS, Rebecca Kretschmer, Sponsor
Caitlyn Mc Ingvale, Grade 9, **Sugar sweet** , Holy Redeemer HS, Kelsey Reyes, Sponsor
Ellie Scovish, Grade 9, **Does eye color affect vision in low light?** , Holy Redeemer HS, Kelsey Reyes, Sponsor

UNIT 19

Biology 10

Cohen Science Center 102

Chloe Pearce, Grade 10, **Daphnia and Cough Medication** , Holy Cross HS, Kimberly Mecir, Sponsor
Desiree Petrick, Grade 10, **Male/Female Taste Physiology** , MMI Prep, Michael Mele, Sponsor
Claire Sunday, Grade 10, **Seconds to Save** , Scranton Prep, Bridget Kotchick, Sponsor
Paige McDonald, Grade 10, **Antibiotic Levels in Meat for human consumption** , Scranton Prep, Bridget Kotchick, Sponsor
Sera McManus, Grade 10, **Growing Algae in Different Conditions** , Hazleton AHS, Jeff Koch, Sponsor
Allison Zaremba, Grade 10, **Ecoli vs. UV** , Hazleton AHS, Jeff Koch, Sponsor
Emily Wall, Grade 10, **Heart Rate Recovery Times** , Carbondale AHS, Jessica Trichilo, Sponsor
Matthew Herne, Grade 10, **Flatworms with caffeine** , Holy Cross HS, Kimberly Mecir, Sponsor
Mallory DeQuevedo, Grade 10, **Forensic Encounters** , Mid Valley SC, Joe Rovinsky, Sponsor
Lauren Palmiter, Grade 10, **The Effects of Vitamin C on Flatworm Regeneration** , Holy Cross HS, Kimberly Mecir, Sponsor
Caroline Kranick, Grade 10, **The Effects of Caffeine on Daphnia Magna** , Holy Cross HS, Kimberly Mecir, Sponsor

UNIT 20

Biology 11

Cohen Science Center 103

Shelby Valunas, Grade 11, **Bubble-ology** , Old Forge, Chris Gatto, Sponsor
Carlos Castillo, Grade 11, **Toxic Fronds** , Greater Nanticoke AHS, Amanda Schraeder, Sponsor
Marcus King, Grade 11, **The Effects of Ocean Acidification** , North Pocono HS, Glenn Pettinato, Sponsor
Lauren McHenry, Grade 11, **The Effects of Changing Salinity on Dinoflagellates** , Greater Nanticoke AHS, Amanda Schraeder, Sponsor
Lauren Freeman, Grade 11, **Tensile Strength of E. Coli Infected Chordae Tendineae** , MMI Prep, Michael Mele, Sponsor
Oliver(Chen-Yang) Lin, Grade 11, **Taro or Night-scented Lily - Lotus Effect** , Holy Cross HS, Jillian Rojek, Sponsor
Gianna Baresse, Grade 11, **Back(teria) To School** , Old Forge, Chris Gatto, Sponsor
David Caldwell, Grade 11, **The Effects of Natural Antibiotics on E. coli** , MMI Prep, Michael Mele, Sponsor
Julia Snyder, Grade 11, **The "Roll" of Heavy Metals in Sushi** , MMI Prep, Michael Mele, Sponsor
Harleigh Davis, Grade 11, **Effect of pH on the Metabolism of Daphnia magna** , Holy Cross HS, Kimberly Mecir, Sponsor
David Shea, Grade 11, **Effect of Light on Pigment Expression in Serratia marcescens** , Mountain View HS, Erin Rupp, Sponsor
Briana Frankovsky, Grade 11, **Effect of pH on Catalase Reactivity** , Mountain View HS, Erin Rupp, Sponsor

UNIT 21

Biology 12

Cohen Science Center 119

Alexis Tayoun, Grade 12, **The Health Effects of Organic and Non-Organic Food on D. Mel** , Old Forge, Chris Gatto, Sponsor
Dana Carrato, Grade 12, **Illuminating Engelmann's Photosynthesis Experiment** , MMI Prep, Michael Mele, Sponsor
Gabrielle Horchos, Grade 12, **The Super Ride** , Scranton Prep, Bridget Kotchick, Sponsor
Leah Georgiades, Grade 12, **The Effect of Salt Concentration on Enzyme Activity** , Holy Cross HS, Kimberly Mecir, Sponsor

UNIT 22

Botany 7 & 8

Cohen Science Center 219

Erin Barno, Grade 7, **Does Darkness have an Effect on the Growth of Grass?** , Crestwood SD, Michael Stanek, Sponsor
Aurora Lefever, Grade 7, **How do plants grow in Martian soil compared to garden soil?** , North Pocono MS, Larry Dombek, Sponsor
Grace Hauenstein, Grade 7, **Water Source Impact on Pansy Seed Germination and Growth** , North Pocono MS, Larry Dombek, Sponsor
Jordyn Chepolis, Grade 7, **Who are you Rooting for?** , St Jude Mountain Top, Marilyn Baran, Sponsor
Luke Spece, Grade 7, **Electricity's Effect on Plant Growth** , Pocono Mt East HS, Maureen Elswick, Sponsor
Avery Orbin, Grade 7, **How Root Nodules are Effected by Different Fertilizers** , Abington Heights MS, Rosa Sabie, Sponsor
Emily Williams, Grade 7, **Keeping the Rose's Bloom** , Good Shepherd Acad, Janice Ambrulavage, Sponsor
Quinn Carden, Grade 7, **Which Antacid Nuetralizes Stomach Acid The Best?** , Holy Rosary Sch, Lisa Casey, Sponsor
Athena Chin, Grade 7, **Avocado Preservation** , Crestwood SD, Michael Stanek, Sponsor
John Christiansen, Grade 8, **The Effect of Different Drinks on Plants** , Honesdale HS, Rebecca Kretschmer, Sponsor
Hailey Underwood, Grade 8, **What Bottled Water Brand is the Heathiest?** , North Pocono MS, Larry Dombek, Sponsor
Jake Pizzolato, Grade 8, **"Catch" Me If You Can** , Good Shepherd Acad, Janice Ambrulavage, Sponsor
Caroline Shaffern, Grade 8, **Water Percentages In Fruits** , St Clare/St Paul, Lisa Owens, Sponsor

UNIT 23

Botany 8

Cohen Science Center 101

Marina Miesko, Grade 8, **Purifying Water With Plants** , North Pocono MS, Larry Dombek, Sponsor
Nicole Joseph, Grade 8, **Pea Plants with Hydroponics?** , Crestwood SD, Michael Stanek, Sponsor
Matthew Carty, Grade 8, **Miracle Bean** , Good Shepherd Acad, Janice Ambrulavage, Sponsor
Campbell Kelly, Grade 8, **The Effects of Sodium Chloride (Road Salt) on Radish Plants** , Our Lady of Peace, Dan Banicky, Sponsor
Alison Morris, Grade 8, **Leaves and Light: How does the Color of Light Affect Starch?** , West Scranton HS & MS, Frank Wahl, Sponsor
Matthew Williams, Grade 8, **Does Water Temperature Affect Plant Growth?** , Good Shepherd Acad, Janice Ambrulavage, Sponsor
Natalie Clum, Grade 8, **Seed Trials** , Our Lady of Peace, Dan Banicky, Sponsor
Kaitlynnne Drennan, Grade 8, **How Water Effects Plant Growth** , Drums Elem MS, Michael Bugda, Sponsor
Victoria Barbano, Grade 8, **Don't (Acid) Rain on My Parade** , Good Shepherd Acad, Janice Ambrulavage, Sponsor

UNIT 24

Botany 8 & 9

Cohen Science Center 204

Morgan Hosier, Grade 8, **The Growth Varaition of Beans in Different Types of Water** , MMI Prep, Amanda Shonk, Sponsor
Morgan Steiner, Grade 8, **How Does Rock Music Affect A Plant?** , North Pocono MS, Larry Dombek, Sponsor
Jackie Snyder, Grade 8, **The Effect of Hormones on Plants** , MMI Prep, Todd Ronco, Sponsor
Daniel Shevchenko, Grade 8, **Comparison of Hydroponic and Soil Plant Growth** , Greater Nanticoke AHS, Amanda Schraeder, Sponsor
Jay Pande, Grade 9, **The effect of light on leaf pigmentation** , Wyoming Seminary US, Andrea Nerozzi, Sponsor
Macy Zenier, Grade 9, **The Effect of Electricity on Plant Growth** , MMI Prep, Michael Mele, Sponsor
Anarose Davidson, Grade 9, **Levels of Chlorophyll in Plant Samples** , Holy Redeemer HS, Kelsey Reyes, Sponsor
Noelle Orehek, Grade 9, **The Effects of Aloe on Fruit Preservation** , Western Wayne HS, Christine McClure, Sponsor
Karol Bialek, Grade 9, **Different Light's effect on plants** , Pocono Mt East HS, Michael Blough, Sponsor

UNIT 25

Botany 10, 11 & 12

Cohen Science Center 123

Alexander Sessock, Grade 10, **Acid Rain's Effect on Oxygen Production in Plants** , MMI Prep, Michael Mele, Sponsor
Danielle Jason, Grade 10, **Capillary Action** , Mid Valley SC, Joe Rovinsky, Sponsor
Patrick Curley, Grade 10, **The Effects of Wavelength on Plant Growth** , Holy Redeemer HS, Steven Wise, Sponsor
Annie Stetz, Grade 10, **Deet Damage** , Hazleton AHS, Lawrence Pryzblick, Sponsor
Clara Cicco, Grade 11, **Compost vs. Soil** , North Pocono HS, Glenn Pettinato, Sponsor

Josef Holbert, Grade 11, **The Effect of Copper (II) Nitrate on Algae** , Honesdale HS, Rebecca Kretschmer, Sponsor
Marina Topa, Grade 12, **Effects of Hydrogen Peroxide on Bean Plant Growth** , North Pocono HS, Glenn Pettinato, Sponsor

UNIT 26

Chemistry 7

Breiseth 208

Sara Balay, Grade 7, **Does temperature affect the brightness of the glowstick?** , Valley MS, Jon Weaver, Sponsor
Isabella Martin, Grade 7, **Effect of Soda on Tooth Enamel** , Mid Valley SC, Joe Rovinsky, Sponsor
Cameron Titley, Grade 7, **Density of Liquids** , Fell Charter School, Michael Rescigno, Sponsor
Aubrey Jumper, Grade 7, **Scattering Skittles** , St Jude Mountain Top, Marilyn Baran, Sponsor
Matthew Banford, Grade 7, **Field of Grease** , St Jude Mountain Top, Marilyn Baran, Sponsor
Jacqueline Pinto, Grade 7, **Cold Pack Chemistry: Where Does The Heat Go?** , Mid Valley SC, Joe Rovinsky, Sponsor
Shaunjae Suarez, Grade 7, **Durability of Notebook Paper** , Heights Terrace Elem MS, Christine LaMonica, Sponsor
Anna Cabell, Grade 7, **How Color Affects Photochemistry** , MMI Prep, Amanda Shonk, Sponsor
Alexzandrea Popovich, Grade 7, **Which Stain Remover Stick Works The Best?** , McAdoo-Kelayres MS, Thomas Kevin Yurkanin, Sponsor
Alyssa Lanum, Grade 7, **Investigating Liquid Viscosities** , Freeland MS, Christopher Parise, Sponsor
Victoria Simpson, Grade 7, **Decoposing Lemon Peels** , North Pocono MS, Larry Dombek, Sponsor
Dustin Paul, Grade 7, **Salt in Meat** , MMI Prep, Todd Ronco, Sponsor
Kristyn Stanek, Grade 7, **What Makes Ice Melt Fastest?** , Freeland MS, Christopher Parise, Sponsor

UNIT 27

Chemistry 7

Breiseth 209

Bryce Betz, Grade 7, **How Acids Affect the Rate of Corrosion** , LaSalle Acad, Lisa Vladicka, Sponsor
Ethan Stoltz, Grade 7, **Salty Situation** , St Jude Mountain Top, Marilyn Baran, Sponsor
Christopher Papciak, Grade 7, **Super Sponge** , St Jude Mountain Top, Marilyn Baran, Sponsor
Dana Mackin, Grade 7, **You're Getting Warmer!** , Holy Rosary Sch, Lisa Casey, Sponsor
Elizabeth Knight, Grade 7, **Insulation Comparison** , Freeland MS, Christopher Parise, Sponsor
Julie Schriver, Grade 7, **How Carbinated Drinks Effect Tooth Enamel?** , North Pocono MS, Larry Dombek, Sponsor
Maria Belardi, Grade 7, **Sometimes You Feel Like A Nut** , All Saints Acad, Kathleen Rejrat, Sponsor
Avery McNulty, Grade 7, **Glow Stick Glow** , Our Lady of Peace, Dan Banicky, Sponsor
Edward Patrick, Grade 7, **Tough Tissue** , St Jude Mountain Top, Marilyn Baran, Sponsor
Avery Rebar, Grade 7, **Antacid Chemistry!** , Mid Valley SC, Joe Rovinsky, Sponsor
Jacob Bianchi, Grade 7, **Do You Know What You Are Really Drinking?** , North Pocono MS, Larry Dombek, Sponsor
Madee Wolk, Grade 7, **Which brand of popcorn pops the best?** , Valley MS, Jon Weaver, Sponsor
Connor Spencer, Grade 7, **Electrolyte Concentration in Beverages** , MMI Prep, Michael Mele, Sponsor

UNIT 28

Chemistry 7

Cohen Science Center 325

Kiera Skuntz, Grade 7, **Do Oranges Lose or Gain Vitamin C Over Time?** , Valley MS, Jon Weaver, Sponsor
Matthew Kerstetter, Grade 7, **It's Getting Hot In Here** , St Jude Mountain Top, Marilyn Baran, Sponsor
Kaitlyn Idhaw, Grade 7, **Sweet as Sugar** , LaSalle Acad, Lisa Vladicka, Sponsor
Kyra Hayden, Grade 7, **Terrible Toothpaste** , St Jude Mountain Top, Marilyn Baran, Sponsor
Tommy Pollock, Grade 7, **What type of detergent removes the most stains?** , Valley MS, Jon Weaver, Sponsor
Madelyn Franceski, Grade 7, **Which Tea Type Contains The Least Amount of Caffeine** , LaSalle Acad, Lisa Vladicka, Sponsor
William Wolfgang, Grade 7, **Rise Up** , St Jude Mountain Top, Marilyn Baran, Sponsor
Chloe Pugh, Grade 7, **Chip Resistant Nail Polish** , St Jude Mountain Top, Marilyn Baran, Sponsor
Lydia Pickutoski, Grade 7, **Juice Balls Science of Spherification** , LaSalle Acad, Lisa Vladicka, Sponsor
Andrew Ferguson, Grade 7, **The Effect of Varying Ammonium Nitrate on Ice Pack Temp.** , Our Lady of Peace, Dan Banicky, Sponsor

Kathryn Mc Ingvale, Grade 7, **Satisfying Stain Removers** , St Jude Mountain Top, Marilyn Baran, Sponsor
Joseph Kalinowski, Grade 7, **Antacids- Which One is the Best?** , Mid Valley SC, Joe Rovinsky, Sponsor
Kayla Martisofski, Grade 7, **Which orange juice contains the most vitamin C?** , Valley MS, Jon Weaver, Sponsor

UNIT 29

Chemistry 7 & 8

Marts 203

Elizabeth Terrery, Grade 7, **Pricey Protection** , All Saints Acad, Kathleen Rejrat, Sponsor
Jacob Webb, Grade 7, **A Quick Cool Down** , Lakeland JSHS, Dawn DeQuevedo, Sponsor
Sophia Bere, Grade 7, **Enticing Enzymes** , St Jude Mountain Top, Marilyn Baran, Sponsor
Megan Nidoh, Grade 7, **Measuring the Surface Tension of Water with a Penny** , LaSalle Acad, Lisa Vladicka, Sponsor
Daryl Boich, Grade 7, **War of Sodas** , St Jude Mountain Top, Marilyn Baran, Sponsor
Emily Dombek, Grade 7, **Testing pH levels in dish washing liquid** , North Pocono MS, Larry Dombek, Sponsor
Chase Pugh, Grade 7, **Purple Smile** , St Jude Mountain Top, Marilyn Baran, Sponsor
Sara McNichols, Grade 7, **Melting Ice Cubes** , South Scranton IS, Katona Miller, Sponsor
Gavin Durkin, Grade 7, **Making Snow** , North Pocono MS, Larry Dombek, Sponsor
Bryce Florey, Grade 7, **Salt and eggTest** , Our Lady of Peace, Dan Banicky, Sponsor
Dominic Alberti, Grade 8, **Goo Glow** , St Jude Mountain Top, Marilyn Baran, Sponsor
Emily Mahler, Grade 8, **Stop Dragging** , St Jude Mountain Top, Marilyn Baran, Sponsor
Alexandria Graham, Grade 8, **Illuminating Forensic Science with Luminol** , Greater Nanticoke AHS, Amanda Schraeder, Sponsor

UNIT 30

Chemistry 8

Cohen Science Center 429

Alondra Segura, Grade 8, **Glucose in various beverages** , Maple Manor Middle School, Janet Shebelock, Sponsor
Matthew McNichols, Grade 8, **What's So Hot?** , South Scranton IS, Katona Miller, Sponsor
Katie Ritsick, Grade 8, **How does temperature affect the brightness of glow sticks?** , Crestwood SD, Michael Stanek, Sponsor
Gabrielle Price, Grade 8, **"Dissolving the Pain"** , All Saints Acad, Kathleen Rejrat, Sponsor
Julianna Powis, Grade 8, **Fastest way to Kill the Pain** , St Jude Mountain Top, Marilyn Baran, Sponsor
Johna Rudden, Grade 8, **Which Stain Remover Removes Stains the Best?** , Valley MS, Jon Weaver, Sponsor
Brice Morman, Grade 8, **The Speed of Which Fire Burns Compound Elements** , North Pocono MS, Larry Dombek, Sponsor
Venrese Stennett, Grade 8, **Breaking the Ice** , West Hazleton Elem MS, Marian Pollack, Sponsor
Andrew Stark, Grade 8, **Teeth Staining** , Our Lady of Peace, Dan Banicky, Sponsor
Abby Stepaniants, Grade 8, **Environmental Applications of Electrolysis.** , Fell Charter School, Jamie Seymour, Sponsor
Aubrey Ayre, Grade 8, **Hardness of nails** , St Jude Mountain Top, Marilyn Baran, Sponsor
Briana Coello, Grade 8, **Elephant Toothpaste?** , South Scranton IS, Katona Miller, Sponsor
Anna Capaci, Grade 8, **Shampoo Residue** , St Jude Mountain Top, Marilyn Baran, Sponsor

UNIT 31

Chemistry 8

Kirby 107

Cheyenne Husted, Grade 8, **Does color effect the burning time?** , North Pocono MS, Larry Dombek, Sponsor
Elizabeth Nemitz, Grade 8, **Does Citric Acid Affect The Amount of Gas Produced?** , North Pocono MS, Larry Dombek, Sponsor
Elizabeth Schieber, Grade 8, **Antacid Potency** , North Pocono MS, Larry Dombek, Sponsor
Kyra Zabretsky, Grade 8, **Investigating Laundry Detergents** , Freeland MS, Christopher Parise, Sponsor
Madeline Leggiero, Grade 8, **Does Temperature Affect the Rate Acids Dissolve Chalk?** , North Pocono MS, Larry Dombek, Sponsor
Danielle McNutt, Grade 8, **Which Type of Water Freezes the Fastest?** , North Pocono MS, Larry Dombek, Sponsor
Michael Makowiec, Grade 8, **Does Temperature Affect Crystal Growth?** , Freeland MS, Christopher Parise, Sponsor
Ella Urosevich, Grade 8, **How Blue is Your Sports Drink** , MMI Prep, Todd Ronco, Sponsor
James Lavan, Grade 8, **Graffiti Gone!** , St Jude Mountain Top, Marilyn Baran, Sponsor

Jake Metzger, Grade 8, **Making Ice Cream: Freezing Point Depression** , West Scranton HS & MS, Frank Wahl, Sponsor
Victoria Bogdanski, Grade 8, **Amount of Sugar in Liquids** , South Scranton IS, Katona Miller, Sponsor
Tori Fox, Grade 8, **A Comparison of Sports Drinks** , Maple Manor Middle School, Janet Shebelock, Sponsor
BiBi Bacchus, Grade 8, **Electrolytes - Which Drink Will Best Help You Recover?** , West Scranton HS & MS, Frank Wahl, Sponsor

UNIT 32

Chemistry 8

UCOM 201

Jenna Wetterau, Grade 8, **Which Orange Juice Contains the Highest Amount of Vitamin C** , Valley MS, Jon Weaver, Sponsor
Isabel Disla, Grade 8, **The Strongest Gelatin** , Maple Manor Middle School, Janet Shebelock, Sponsor
Marina Mann, Grade 8, **Sally Hansen: Insta Dri vs. Standard?** , Our Lady of Peace, Dan Banicky, Sponsor
Colin Wills, Grade 8, **Dishwashing Brands** , St Jude Mountain Top, Marilyn Baran, Sponsor
Thomas Hannon, Grade 8, **Fireproof?** , North Pocono MS, Larry Dombek, Sponsor
Alex Rymar, Grade 8, **Electrolytes: Replenish or Diminish** , St Jude Mountain Top, Marilyn Baran, Sponsor
Nicholas Curry, Grade 8, **Are Black Markers Really Black?** , Crestwood SD, Michael Stanek, Sponsor
Christian Velez, Grade 8, **Project** , West Hazleton Elem MS, Marian Pollack, Sponsor
Claire Kelly, Grade 8, **Fountains of Youth?** , Our Lady of Peace, Dan Banicky, Sponsor
Jonatan Stanley, Grade 8, **The Decomposition of Bioplastic** , Western Wayne MS, Christine McClure, Sponsor
Grace Boyle, Grade 8, **Apple Browning Test** , Our Lady of Peace, Dan Banicky, Sponsor
Rachel Black, Grade 8, **The Juicy Truth** , St Jude Mountain Top, Marilyn Baran, Sponsor
Jake Jordan, Grade 8, **Keeping Warm in Winter** , South Scranton IS, Katona Miller, Sponsor

UNIT 33

Chemistry 8

UCOM 207

Mia Burke, Grade 8, **Let's "Concentrate" On Vitamin C** , All Saints Acad, Christine Hopkins, Sponsor
Anthony Strish, Grade 8, **Cleaning Pennies** , St Jude Mountain Top, Marilyn Baran, Sponsor
Sarah Stettler, Grade 8, **The Power of Protien** , St Jude Mountain Top, Marilyn Baran, Sponsor
Ashleigh Button, Grade 8, **Oil vs. Shampoo** , St Jude Mountain Top, Marilyn Baran, Sponsor
Emily Payne, Grade 8, **Which Soda is the Worst for Your Teeth?** , Valley MS, Jon Weaver, Sponsor
Zachary Kehoe, Grade 8, **Does temperature affect a phones charging rate** , St Jude Mountain Top, Marilyn Baran, Sponsor
Ashley Sabia, Grade 8, **Salt Solutions** , Drums Elem MS, Michael Bugda, Sponsor
Jake Rusak, Grade 8, **Current Events** , Our Lady of Peace, Dan Banicky, Sponsor
Jared Mastillo, Grade 8, **Lead levels in Home Items** , North Pocono MS, Larry Dombek, Sponsor
Julia Maslinski, Grade 8, **Temperature's Effect on Crystallization** , Pocono Mt East HS, Maureen Elswick, Sponsor
Braxton Lowe, Grade 8, **What effect does dry ice have on drinks** , Our Lady of Peace, Dan Banicky, Sponsor
McKenna Gallagher, Grade 8, **Evaporation of Alcohols** , MMI Prep, Todd Ronco, Sponsor
Charlie Talapa, Grade 8, **Pop Goes Pop** , South Scranton IS, Katona Miller, Sponsor

UNIT 34

Chemistry 8

Cohen 428

Katherine Lewandowski, Grade 8, **Reaction Rate** , MMI Prep, Todd Ronco, Sponsor
Peter Walko, Grade 8, **The Electrolyte Challenge** , MMI Prep, Amanda Shonk, Sponsor
Camilla Rinaldi, Grade 8, **Balloon Blowing** , Our Lady of Peace, Dan Banicky, Sponsor
Giana Arnese, Grade 8, **Shaking for Suds** , Carbondale AHS, Jessica Trichilo, Sponsor
Michaela Leidingger, Grade 8, **Cleaning Up a Crime Scene - Common Cleaners and Luminol** , West Scranton HS & MS, Frank Wahl, Sponsor
Alexandra Young, Grade 8, **Which Hand Sanitizer Works Best?** , MMI Prep, Todd Ronco, Sponsor
Raymond Sabatini, Grade 8, **Cookies: Crummy or Yummy** , St Jude Mountain Top, Marilyn Baran, Sponsor
Alex Swire, Grade 8, **Getting a Bang Out of Breath Spray** , North Pocono MS, Larry Dombek, Sponsor

UNIT 35

Chemistry 9

Marts 213

Austin Bentler, Grade 9, **Measuring the sugar content of a liquid with a laser pointer** , Scranton Prep, Bridget Kotchick, Sponsor
Sammea Ricciardi, Grade 9, **Burning Calories: Energy Stored in Different Types of Foods** , Scranton Prep, Bridget Kotchick, Sponsor
Molly Repecki, Grade 9, **Titration Of Aspirin** , Holy Cross HS, Jillian Rojek, Sponsor
James Bianchi, Grade 9, **"Playing with Fire" - Testing the Flammability of Clothing** , North Pocono HS, Glenn Pettinato, Sponsor
Amberly Ventura, Grade 9, **Total Alkalinity and pH of Personal Care Products** , Hazleton AHS, Jeff Koch, Sponsor
Tim Gallagher, Grade 9, **Which Antacid can neutralize the most stomach acid?** , Crestwood SD, Willaim Heckman, Sponsor
Madison Light, Grade 9, **Flourescent or incandescent which light produces more heat** , Hazleton AHS, Lawrence Pryzblick, Sponsor
Payton Glynn, Grade 9, **Freezing Point Depression and Boiling Point Elevation** , Crestwood SD, Mickey Harper, Sponsor
Hammad Saeed, Grade 9, **Which Bottled Water is the Healthiest?** , Hazleton AHS, Jeff Koch, Sponsor
Michael Smith, Grade 9, **Truly Pure Water** , North Pocono HS, Glenn Pettinato, Sponsor
Kacey Durkin, Grade 9, **Comparing the Amount of Fat in Snack Foods!** , Mid Valley SC, Joe Rovinsky, Sponsor
Kiany Gutierrez, Grade 9, **How Much Fat is in Your Food?** , Hazleton AHS, Jeff Koch, Sponsor

UNIT 36

Chemistry 9

Marts 214

Kimberly Ventura, Grade 9, **Popping Power** , Hazleton AHS, Jeff Koch, Sponsor
Ample Singh, Grade 9, **Which Drinks Have The Highest Glucose Concentration Level?** , Hazleton AHS, Lawrence Pryzblick, Sponsor
Ricky Blase, Grade 9, **Tooth Decay** , Hazleton AHS, Jeff Koch, Sponsor
Cortney Dushanko, Grade 9, **Vitamin C in Orange Juice** , Crestwood SD, Jean Zanolini, Sponsor
Jenna Bradley, Grade 9, **Ice Cold** , Holy Cross HS, Jillian Rojek, Sponsor

UNIT 37

Chemistry 10

Stark Learning Center 105

Alissa Platukis, Grade 10, **Will The Temperature of Water Affect Glowstick Brightness?** , Hazleton AHS, Jeff Koch, Sponsor
Annabelle Callis, Grade 10, **Determining the Amount of Acid Neutralized by an Antacid** , Holy Cross HS, Jennifer Leone, Sponsor
Sophia Serafini, Grade 10, **Can water float on water?** , Scranton Prep, Bridget Kotchick, Sponsor
Michael Mucciolo, Grade 10, **Citrus Soda, a Flat, Flavorful Finery** , Old Forge, Chris Gatto, Sponsor
Jessica McClellan, Grade 10, **The Effect of Beverages on the Strength of Egg Shells** , MMI Prep, Michael Mele, Sponsor
Mckaylia Ward, Grade 10, **Going Bananas** , Holy Redeemer HS, Steven Wise, Sponsor
Patrick Luptak, Grade 10, **The Relationship Between Pressure and Volume of a Gas** , North Pocono HS, Glenn Pettinato, Sponsor
Rachel McFarland, Grade 10, **Enzyme Levels of Beverages** , Crestwood SD, Sue Gryskiewicz, Sponsor
Christine Hine, Grade 10, **Coffee vs. Tea. Which contains more caffeine?** , North Pocono HS, Glenn Pettinato, Sponsor
Gianna Sacchetti, Grade 10, **The Effects of Additives on Paint Flammability** , Holy Cross HS, Jennifer Leone, Sponsor
Kaitlyn McGeehan, Grade 10, **Ash Content of Paper** , MMI Prep, Todd Ronco, Sponsor
Anthony Poyer, Grade 10, **The Effect Of Changing Temperature On Electroplating** , Crestwood SD, Desiree Hoyt, Sponsor
Bailey Slusser, Grade 10, **Concentration of Acetic Acid in Vinegar** , MMI Prep, Todd Ronco, Sponsor

UNIT 38

Chemistry 11

Stark Learning Center 222

Lindsey Hoover, Grade 11, **Ice Ice Baby** , Holy Redeemer HS, Steven Wise, Sponsor
Tommy Niemiec, Grade 11, **How Much Dye is in Popular Drinks** , Holy Cross HS, Jennifer Leone, Sponsor
Joshua Danna, Grade 11, **Diesels and Biodiesels: What's the difference?** , North Pocono HS, Glenn Pettinato, Sponsor
Madeline Walsh, Grade 11, **Effectiveness of Sunscreen in Makeup** , Pocono Mt East HS, Michael Blough, Sponsor
Thomas Perillo, Grade 11, **Titanium Dioxide and Environmentally Harmful Dyes** , Crestwood SD, Mark Modrovsky, Sponsor

Dayna Belsky, Grade 11, **Determination of Iron on Algae** , Holy Redeemer HS, Steven Wise, Sponsor
Emily Scott, Grade 11, **Chemiluminescence of a Luminol Reaction** , Greater Nanticoke AHS, Brandon Collins, Sponsor
Matthew Cerep, Grade 11, **Determining Citric Acid Content in Beverages** , Holy Cross HS, Jennifer Leone, Sponsor
Henry Rusak, Grade 11, **Lights Camera Action** , Scranton Prep, Bridget Kotchick, Sponsor
Mark Abdelmalek, Grade 11, **Ice with Spice** , Hazleton AHS, Lawrence Pryzblick, Sponsor
Abigail Paul, Grade 11, **Extractables and Leachables in Plastic** , MMI Prep, Todd Ronco, Sponsor
Luis Santos, Grade 11, **Fastest Acting Antacid** , Pocono Mt East HS, Michael Blough, Sponsor
Neha Metgud, Grade 11, **Cold Pack Chemistry: Where Did the Heat Go?** , Crestwood SD, Desiree Hoyt, Sponsor

UNIT 39

Chemistry 12

Stark Learning Center 101

Joseph Arbie, Grade 12, **Determining the amount of acetylsalicylic acid in aspirin** , Holy Cross HS, Jennifer Leone, Sponsor
Dario D'Amato, Grade 12, **Solubility and Temperature** , Hazleton AHS, Jeff Koch, Sponsor
Emily Wallis, Grade 12, **Crime Scene Chemistry** , Carbondale AHS, Jessica Trichilo, Sponsor
Kella Pacifico, Grade 12, **Determining the Concentration of Alcohol in Mouthwash** , Holy Cross HS, Jennifer Leone, Sponsor
Madison Swire, Grade 12, **Little Moos and Calcium** , North Pocono HS, Glenn Pettinato, Sponsor
Samantha Zaremba, Grade 12, **Determining the Presence of Pesticides in Local Honey** , Hazleton AHS, Jeff Koch, Sponsor
Joshua Winslow, Grade 12, **Can Supercapacitors Be More Viable Than Batteries?** , North Pocono HS, Glenn Pettinato, Sponsor
Nicholas Young, Grade 12, **The Determination of Iron Content in Foods** , MMI Prep, Todd Ronco, Sponsor
Alana Siock, Grade 12, **The Concentration of Citric Acid in Soft Drinks** , Holy Cross HS, Jennifer Leone, Sponsor
Jack Van Horn, Grade 12, **Are Double Stuffed Oreos Actually Double Stuffed?** , Western Wayne HS, Christine McClure, Sponsor
Anirban Chowdhury, Grade 12, **Caffeine Content in Types of Tea** , MMI Prep, Michael Mele, Sponsor

UNIT 40

Computer Science 7, 8, 9 & 10

Stark Learning Center 002

Michael Novak, Grade 7, **City Simulator Engineering** , Mid Valley SC, Joe Rovinsky, Sponsor
Louis DeAngelo, Grade 8, **Schedule Manager: Python Spreadsheet Editor** , MMI Prep, Justin Vincent, Sponsor
James Fay, Grade 8, **How much Faster is a SSD than a HDD** , Our Lady of Peace, Dan Banicky, Sponsor
Logan Chabal, Grade 9, **How does temperture effect a computer's sysytems** , North Pocono HS, Glenn Pettinato, Sponsor
Connor Richards, Grade 9, **How Secure is Your Password?** , North Pocono HS, Glenn Pettinato, Sponsor
Morgan Long, Grade 10, **Need a Reminder?** , MMI Prep, Justin Vincent, Sponsor
Marco Polimeni, Grade 10, **A.I. Game** , Pocono Mt East HS, Michael Blough, Sponsor

UNIT 41

Computer Science 11 & 12

Stark Learning Center 223

Colin Greybosh, Grade 11, **Calculating Pi with Double and Arbitrary Precision** , Hazleton AHS, Jeff Koch, Sponsor
Kaitlyn Bigos, Grade 11, **Applications of Exponential Growth and Decay** , Greater Nanticoke AHS, Barb Warman, Sponsor
David Mash, Grade 11, **Its an AI that goes through a maze.** , Greater Nanticoke AHS, Michele Wisniewski, Sponsor
Chris English, Grade 11, **Testing Algorithms for Random Strings** , Hazleton AHS, Jeff Koch, Sponsor
Erin Sari, Grade 12, **Jam Sesh** , MMI Prep, Justin Vincent, Sponsor
Pranjā Satija, Grade 12, **Modifying iOS Binaries at Runtime with JavaScriptCore** , Hazleton AHS, Jeff Koch, Sponsor
Lois Ann Polashenski, Grade 12, **Waypoint Navigation** , MMI Prep, Justin Vincent, Sponsor
Niklas Byriel, Grade 12, **Side-Scrolling Fighting Game** , MMI Prep, Justin Vincent, Sponsor
John Kozlosky, Grade 12, **Glucosim** , Lakeland JSHS, Laura Mayer, Sponsor
Megan Marchetti, Grade 12, **Pix Editr** , MMI Prep, Justin Vincent, Sponsor

UNIT 42

Earth and Space 7, 8, 10 & 11

Stark Learning Center 378

Ashley Luciano, Grade 7, **Propeller Design Ability** , Hazleton AMS, Ryan Wilner, Sponsor
Jetly Gonzalez, Grade 7, **Kitchen Lip Balm** , Hazleton AMS, Ryan Wilner, Sponsor
Meghan McDonnell, Grade 7, **Sunny Colors** , Holy Rosary Sch, Lisa Casey, Sponsor
Samantha Killian, Grade 8, **Colors of a Sunset** , Western Wayne MS, Christine McClure, Sponsor
Emma Thompson, Grade 8, **Light bulbs Effect on Light Pollution** , Pocono Mt East HS, Maureen Elswick, Sponsor
Erica Prushinski, Grade 8, **Nine Layer Density** , LaSalle Acad, Lisa Vladicka, Sponsor
Viktoria Meehan, Grade 10, **The Moon affecting the Tides?** , Mid Valley SC, Joe Rovinsky, Sponsor
Danielle Jason, Grade 10, **A Storm's a Brewin'** , Mid Valley SC, Joe Rovinsky, Sponsor
Aleah Snedeker, Grade 11, **Did Pleistocene Glaciers Change Direction As They Advanced?** , Lakeland JSHS, Laura Mayer, Sponsor

UNIT 43

Ecology 7, 8 & 9

Stark Learning Center 166

Nicholas McCord, Grade 7, **Measuring the Strength of Tea** , Fell Charter School, Jamie Seymour, Sponsor
Kelly Kennedy, Grade 8, **Which is the Better Bulb for Light Pollution?** , West Scranton HS & MS, Frank Wahl, Sponsor
Matthew Ebert, Grade 8, **Fallen Arches: The Surprising Strength of Eggshells** , Berwick AMS, Todd Gunther, Sponsor
Mosiah Bennett, Grade 8, **HomeMade Stain Remover V.S Commercial Stain Remover** , Maple Manor Middle School, Janet Shebelock, Sponsor
Abigail McDonald, Grade 8, **Going Green While you Clean** , All Saints Acad, Kathleen Rejrat, Sponsor
Alana Scanlon, Grade 8, **Air Pollution - How Does Traffic Affect Particulates in Air?** , West Scranton HS & MS, Frank Wahl, Sponsor
Haley Estus, Grade 8, **The Effects of Road Treatment Runoff on Plant Germination** , Western Wayne MS, Christine McClure, Sponsor
Kathryn Mattern, Grade 9, **Water Conservation** , Western Wayne HS, Christine McClure, Sponsor
Katelyn Staneck, Grade 9, **Are "Green" Detergents Less Toxic Than Regular Detergents?** , Hazleton AHS, Jeff Koch, Sponsor
Darlene Black, Grade 9, **The effect of soil erosion on plant growth** , Western Wayne HS, Christine McClure, Sponsor
Sabrina Dombek, Grade 9, **Hard water cannot be washed** , North Pocono HS, Glenn Pettinato, Sponsor
Nicholas Guerra, Grade 9, **The Effects of Acetaminophen and Naproxen on Aquatic Life** , West Scranton HS & MS, Frank Wahl, Sponsor

UNIT 44

Ecology 9, 10, 11 & 12

Stark Learning Center 216

Ivy Norton, Grade 9, **Can aquatic plants remove heavy metals from water?** , Holy Redeemer HS, Kelsey Reyes, Sponsor
Shannon Lawlor, Grade 9, **Fertilizer's effect on Algae growth** , Pocono Mt East HS, Michael Blough, Sponsor
Mikayla Regan, Grade 9, **Ferrofluid and Petroleum Clean Up** , Pocono Mt East HS, Michael Blough, Sponsor
John Ashton, Grade 9, **Types of Bacteria in Acid Mine Drainage** , Hazleton AHS, Jeff Koch, Sponsor
Frank Scavo, Grade 10, **Drill it Don't Spill it** , Old Forge, Chris Gatto, Sponsor
Meghan Keenan, Grade 10, **Don't Spill the Salt** , Holy Cross HS, Kimberly Mecir, Sponsor
Ericka Pica, Grade 10, **Effects of Liquid Fertilizer on Daphnia Heartbeats** , Holy Cross HS, Kimberly Mecir, Sponsor
Matthew Schwarztrauber, Grade 10, **Limiting Nutrients of Algae** , Mountain View HS, Erin Rupp, Sponsor
Scarlett Spager, Grade 11, **Stayin' Alive** , Old Forge, Chris Gatto, Sponsor
Christianna Huntzinger, Grade 11, **The Effects of Temperature on Respiration Rates of Fish** , Hazleton AHS, Jeff Koch, Sponsor
Aidan Hinchey, Grade 11, **Phosphorus Levels in Various Bodies of Water** , Marian Catholic, Robert Valente, Sponsor
Desarae Balish, Grade 12, **The Impact of Ocean Acidification on Marine Life** , North Pocono HS, Glenn Pettinato, Sponsor

UNIT 45

Engineering 7, 8 & 9

Stark Learning Center 005

Katie Shipsky, Grade 7, **Hydraulics** , LaSalle Acad, Lisa Vladicka, Sponsor
Alek Ferris, Grade 8, **DIY WiFi Booster: Does Size Matter?** , Drums Elem MS, Michael Bugda, Sponsor
Louis DeAngelo, Grade 8, **Mobile Raspberry Pi Computer** , MMI Prep, Justin Vincent, Sponsor

Rounak Lele, Grade 9, **Electricity from photosynthesis?** , Wyoming Seminary US, Andrea Nerozzi, Sponsor
Sean Meyer, Grade 9, **The Shear Strength of Construction Materials** , Pocono Mt East HS, Michael Blough, Sponsor

UNIT 46

Engineering 10, 11 & 12

Stark Learning Center 125

Coleman Smith, Grade 10, **3D Scanning Rig** , MMI Prep, Justin Vincent, Sponsor
Vaeda Pontosky, Grade 10, **The Efficiency of Different Bridge Structures** , Western Wayne HS, Christine McClure, Sponsor
Elizabeth Eckhart, Grade 10, **The Rube Goldberg Experiment** , MMI Prep, Justin Vincent, Sponsor
Jakob Schwabe, Grade 11, **A Simple Photo-Reactive Robot** , MMI Prep, Justin Vincent, Sponsor
Samuel Sessock, Grade 12, **Pi Trail Camera** , MMI Prep, Justin Vincent, Sponsor
Erik Thomas, Grade 12, **Catapults: Angle of Release** , Crestwood SD, Jeff Pierontoni, Sponsor
Elizabeth Pinto, Grade 12, **Automated Cat Feeder** , MMI Prep, Justin Vincent, Sponsor
Sam Myers, Grade 12, **Homemade Graphing Calculator** , Abington Heights HS, Rosa Sabie, Sponsor

UNIT 47

Mathematics 7

Breiseth 212

Myatalia Barna, Grade 7, **The FOIL Method** , Crestwood SD, Michael Stanek, Sponsor
Tanisi Patel, Grade 7, **Pythagorean Theorem** , Crestwood SD, Michael Stanek, Sponsor
Brooke Hafner, Grade 7, **Tessellations** , South Scranton IS, Crystal DeAntona, Sponsor
Antonio Daiute, Grade 7, **Pythagorean Theorem** , Drums Elem MS, Michael Bugda, Sponsor
Elizabeth Neville, Grade 7, **Pythagorean Theorem** , Good Shepherd Acad, Joyce Elston, Sponsor
Giovanna Cerminaro, Grade 7, **M&M Math** , LaSalle Acad, Lisa Vladicka, Sponsor
Quinn Zabiegalski, Grade 7, **Pascal's Triangle** , Crestwood SD, Michael Stanek, Sponsor
Nathan Thomas, Grade 7, **Fibonacci Sequence** , Crestwood SD, Michael Stanek, Sponsor
Isabelle Romano, Grade 7, **Multiplying Polynomials** , Good Shepherd Acad, Joyce Elston, Sponsor
Kevin Cheng, Grade 7, **Binomial Theorem** , Crestwood SD, Michael Stanek, Sponsor
Bobby Resio, Grade 7, **The value of "55 Cancri e" VS. Jupiter made of solid gold** , Old Forge, Chris Gatto, Sponsor
Breanna Walsh, Grade 7, **The Golden Ratio** , South Scranton IS, Crystal DeAntona, Sponsor

UNIT 48

Mathematics 7 & 8

Breiseth 213

Eva Szura, Grade 7, **Creating a Spidron** , Good Shepherd Acad, Joyce Elston, Sponsor
Elizabeth ODonnell, Grade 7, **The Patterns behind the 24 Game** , MMI Prep, Sue Moyer, Sponsor
Apil Sanyashi, Grade 7, **The Pythagorean Theorem** , South Scranton IS, Crystal DeAntona, Sponsor
Charles Floryan, Grade 7, **Graphing Linear Equations** , Good Shepherd Acad, Joyce Elston, Sponsor
Sam Mulvey, Grade 7, **Are NBA players \$ influenced more by Draft Pick/Education** , LaSalle Acad, Lisa Vladicka, Sponsor
Savanna Willauer, Grade 7, **Squares of Magic** , South Scranton IS, Crystal DeAntona, Sponsor
Rachael Betz, Grade 7, **Pythagorean Theorem and Special Right Triangles** , MMI Prep, Sue Moyer, Sponsor
Ava Fino, Grade 8, **The Pythagorean Theorem** , Good Shepherd Acad, Joyce Elston, Sponsor
Kristen Carter, Grade 8, **Sine, Cosine, Tangent** , Crestwood SD, Marlene Veet, Sponsor
Logan Cary, Grade 8, **Solving the Circle** , Wyoming Valley West, Maria Konopke, Sponsor
Samantha Sparich, Grade 8, **Game Theory** , MMI Prep, Sue Moyer, Sponsor
Priyal Patel, Grade 8, **Matrices** , Crestwood SD, Michael Stanek, Sponsor

UNIT 49

Mathematics 8 & 9

Stark Learning Center 259

Emma Jones, Grade 8, **Calculating Height Using Trigonometry** , South Scranton IS, Crystal DeAntona, Sponsor

Aiden Shymanski, Grade 8, **Lewis Carroll's Logic** , Wyoming Valley West, Maria Konopke, Sponsor
Victoria Harper, Grade 8, **The Geometry of a Honeycomb** , Crestwood SD, Mickey Harper, Sponsor
Amelia Anderson, Grade 8, **Math In Ancient History** , Good Shepherd Acad, Joyce Elston, Sponsor
Morgan Allen, Grade 8, **Drug Absorption** , MMI Prep, Sue Moyer, Sponsor
Connor Ehrensperger, Grade 8, **Relationship Between Math and Music** , Greater Nanticoke AHS, Barb Warman, Sponsor
Landon Wolk, Grade 8, **Fibonacci's Sequence** , Drums Elem MS, Michael Bugda, Sponsor
Natalie Graham, Grade 8, **Chaos Theory** , MMI Prep, Sue Moyer, Sponsor
Hanna White, Grade 8, **An Investigation of Trigonometry** , Abington Heights MS, Rosa Sabie, Sponsor
Hiba Muhammad, Grade 8, **Knot theory** , MMI Prep, Sue Moyer, Sponsor
Katharine Pinto, Grade 9, **Series and Sequences** , MMI Prep, Sue Moyer, Sponsor
Sebastian Allen, Grade 9, **Probability Distribution Discussion** , Wyoming Valley West, Maria Konopke, Sponsor

UNIT 50

Mathematics 9

Stark Learning Center 260

Nihar Patel, Grade 9, **Vectors** , Crestwood SD, Jeffrey Bellas, Sponsor
Meredythe Baird, Grade 9, **Polyhedras: Exploring the Louvre** , Holy Redeemer HS, Kelly Pacelli, Sponsor
Kayla Supkowski, Grade 9, **Power Rule Derivatives** , Crestwood SD, Michael Stanek, Sponsor
Gabe Jenceleski, Grade 9, **The Banach-Tarski Paradox** , Greater Nanticoke AHS, Barb Warman, Sponsor
Brandon Lantz, Grade 9, **Sequences and Series** , Wyoming Valley West, Maria Konopke, Sponsor
Jay Bhavsar, Grade 9, **Catalan Numbers** , Crestwood SD, Jeffrey Bellas, Sponsor
Samuel Saporito, Grade 9, **Inverses** , Wyoming Valley West, Maria Konopke, Sponsor
Regan Mishanski, Grade 9, **Market Equilibrium** , Holy Redeemer HS, Kelly Pacelli, Sponsor
Faatihah Nayeem, Grade 9, **Algorithm of a Rubix Cube** , Abington Heights HS, Rosa Sabie, Sponsor
Kevin Regep, Grade 9, **Sine and Cosine Waves** , Crestwood SD, Jeffrey Bellas, Sponsor
Michala Dennis, Grade 9, **Circuits** , Wyoming Valley West, Maria Konopke, Sponsor
Madyson Sobolewski, Grade 9, **Bayes' Theorem** , Crestwood SD, Ellen Gorman, Sponsor

UNIT 51

Mathematics 9 & 10

Stark Learning Center 262

Ben Putnam, Grade 9, **Ulam Spiral** , MMI Prep, Sue Moyer, Sponsor
Samantha Shelesky, Grade 10, **Predicting Population Growth** , Mid Valley SC, Joe Rovinsky, Sponsor
Emily Nguyen, Grade 10, **Fractals** , Holy Redeemer HS, Kelly Pacelli, Sponsor
Christine Park, Grade 10, **Hypercubes** , MMI Prep, Sue Moyer, Sponsor
Jillian Dudley, Grade 10, **Volume and Surface Area of Oranges** , Western Wayne HS, Christine McClure, Sponsor
Daniel DeMelfi, Grade 10, **Squaring a Circle** , MMI Prep, Sue Moyer, Sponsor
David Wan, Grade 10, **Unit Circle** , Crestwood SD, Mickey Harper, Sponsor
Mahum Ahmed, Grade 10, **The Fundamentals of Calculus** , MMI Prep, Sue Moyer, Sponsor
Sarah Azaizeh, Grade 10, **Network Topology** , Holy Redeemer HS, Kelly Pacelli, Sponsor
Grace Dacey, Grade 10, **Pascal's Triangle and Combinations** , Holy Redeemer HS, Kelly Pacelli, Sponsor
Coleman Smith, Grade 10, **The Structural Inefficiency of Honeycombs** , MMI Prep, Justin Vincent, Sponsor
Brian Payne, Grade 10, **Logic Problems** , MMI Prep, Sue Moyer, Sponsor

UNIT 52

Mathematics 10 & 11

Stark Learning Center 263

Dhruv Patel, Grade 10, **Vectors** , Crestwood SD, Jeffrey Bellas, Sponsor
Matthew Hayden, Grade 10, **Probability in Baseball** , Holy Redeemer HS, Kelly Pacelli, Sponsor
Nikolai Stefanov, Grade 10, **The Creation of a Black Hole** , Wyoming Seminary US, Andrea Nerozzi, Sponsor

Wesley Guarneri, Grade 10, **Boolean Algebra** , MMI Prep, Sue Moyer, Sponsor
Korina Cheng, Grade 10, **Limit Laws** , Crestwood SD, Mickey Harper, Sponsor
Evan Stecco, Grade 11, **Spherical Trigonometry** , Greater Nanticoke AHS, Barb Warman, Sponsor
Angelica Alday, Grade 11, **Mathematical Induction** , MMI Prep, Sue Moyer, Sponsor
Pari Pancholy, Grade 11, **Proof that Pi is Irrational** , Abington Heights HS, Rosa Sabie, Sponsor
Kaitlyn Bigos, Grade 11, **Exponential Growth & Decay** , Greater Nanticoke AHS, Barb Warman, Sponsor
Dawson Hughes, Grade 11, **The Analysis of Game Theory** , Greater Nanticoke AHS, Barb Warman, Sponsor
Yunru Zheng, Grade 11, **Mathematical analysis of animal populations** , Wyoming Seminary US, Andrea Nerozzi, Sponsor
Brandon Karavitch, Grade 11, **Math in Medicine** , Greater Nanticoke AHS, Barb Warman, Sponsor

UNIT 53

Mathematics 11

Stark Learning Center 270

Carina D'Souza, Grade 11, **Fundamental Theorem of Calculus** , Crestwood SD, Jeffrey Bellas, Sponsor
Cydnie Toth, Grade 11, **Applications of the Derivative** , Berwick AHS, Todd Gunther, Sponsor
Abigail Post, Grade 11, **One-Sided Limits** , Crestwood SD, Mickey Harper, Sponsor
Shiv Patel, Grade 11, **Koch Snowflake** , Crestwood SD, Jeffrey Bellas, Sponsor
Madison Guido, Grade 11, **Sundials: Fact or Fiction** , Holy Redeemer HS, Linda Rakauskas, Sponsor
Brianna Phillips, Grade 11, **The Mathematics in a Rainbow** , Holy Redeemer HS, Linda Rakauskas, Sponsor
Carolyn Antall, Grade 11, **Taking It to the Limit** , Wyoming Valley West, Maria Konopke, Sponsor
Joseph O'Hara, Grade 11, **Using Linear Regression in the Coast Guard** , Greater Nanticoke AHS, Barb Warman, Sponsor
Zarqua Ansari, Grade 11, **Integration** , Crestwood SD, Ellen Gorman, Sponsor
Aaron Kleger, Grade 11, **Derivatives** , Crestwood SD, Lori Rozitski, Sponsor
Makenzie Savner, Grade 11, **Polar Coordinates** , Holy Redeemer HS, Linda Rakauskas, Sponsor

UNIT 54

Mathematics 11 & 12

Stark Learning Center 311

Prit Patel, Grade 11, **Riemann's sums** , Crestwood SD, Jeffrey Bellas, Sponsor
Jacob Saporito, Grade 11, **Derivatives** , Wyoming Valley West, Maria Konopke, Sponsor
Paulida Tes, Grade 12, **The Calculus of Rainbows** , Pocono Mt West HS, Susan Thackara, Sponsor
Ty Nichols, Grade 12, **Structures of Abstract Algebra: Groups, Rings, and Fields** , Lakeland JSHS, Laura Mayer, Sponsor
Niklas Byriel, Grade 12, **The Advantages of a Base-12 Number System** , MMI Prep, Justin Vincent, Sponsor
Gabriella DeMelfi, Grade 12, **Spherical Geometry** , MMI Prep, Sue Moyer, Sponsor
Anthony Khoudary, Grade 12, **Boolean Arithmetic** , Holy Redeemer HS, Linda Rakauskas, Sponsor
Cataldo LaMarca, Grade 12, **Parametrics** , Crestwood SD, Mickey Harper, Sponsor
Ali Aijaz, Grade 12, **Fourier and Laplace Transforms** , MMI Prep, Sue Moyer, Sponsor
Shelby Smith, Grade 12, **Mathematics of Music** , Holy Redeemer HS, Linda Rakauskas, Sponsor
Jordan Greshko, Grade 12, **Cryptology** , Berwick AHS, Todd Gunther, Sponsor

UNIT 55

Mathematics 12

Stark Learning Center 329

Roopesh Kumar, Grade 12, **Euler's Method** , Berwick AHS, Todd Gunther, Sponsor
Jenna Jachimiak, Grade 12, **Group Theory** , Holy Redeemer HS, Linda Rakauskas, Sponsor
Jelena Goldstein, Grade 12, **Wilcoxon Signed Rank Test** , Crestwood SD, Ellen Gorman, Sponsor
Anthony Molitoris, Grade 12, **When Should I Sell My 1954 Hank Aaron Baseball Card?** , Holy Redeemer HS, Linda Rakauskas, Sponsor
Kisan Patel, Grade 12, **Sabermetrics** , MMI Prep, Sue Moyer, Sponsor
Jeabog Kim, Grade 12, **Computing the Surface Area of a Sphere by the Disk Method** , Holy Cross HS, Jennifer Leone, Sponsor
Seth Slavin, Grade 12, **Fibonacci Related Sequences** , Pleasant Valley High School, Andy Witinski, Sponsor

Denise Pinto, Grade 12, **Euler's Formula** , Scranton Prep, Bridget Kotchick, Sponsor
Kevin Hu, Grade 12, **Hausdorff Dimension and Non-Integer Dimensional Fractals** , Abington Heights HS, Rosa Sabie, Sponsor
Lois Ann Polashenski, Grade 12, **Math of a Roller Coaster** , MMI Prep, Justin Vincent, Sponsor
Jessica Smith, Grade 12, **Chaos Theory** , MMI Prep, Sue Moyer, Sponsor

UNIT 56

Microbiology 7, 8 & 9

Stark Learning Center 359

Thomas Mayernik, Grade 7, **Polluted Ponds** , St Jude Mountain Top, Marilyn Baran, Sponsor
Grace Murtagh, Grade 7, **Amount of Bacteria When you Double Dip** , Our Lady of Peace, Dan Banicky, Sponsor
Abby Merrifield, Grade 7, **Zone of Inhibition** , Mid Valley SC, Joe Rovinsky, Sponsor
Stanley Ciborosky, Grade 7, **Supersize Me Experiment** , Mid Valley SC, Joe Rovinsky, Sponsor
Justin Williams, Grade 8, **An Observation of Non-sugar Sweeteners On Yeast Growth** , Abington Heights MS, Rosa Sabie, Sponsor
Sabela Zablackis, Grade 8, **Hand Sanitizer vs. Hand Soap** , Pocono Mt East HS, Maureen Elswick, Sponsor
Isabelle Hatala, Grade 8, **Eye Spy Bacteria** , St Clare/St Paul, Lisa Owens, Sponsor
Carly Gambo, Grade 9, **Effect of Antibiotics on Bacterial Growth** , Mid Valley SC, Joe Rovinsky, Sponsor
Lanie Gray, Grade 9, **Medicinal Effects on Microbial Flora** , Mid Valley SC, Joe Rovinsky, Sponsor
Hannah Holbert, Grade 9, **Bacterial Growth in Sports Drinks** , Honesdale HS, Rebecca Kretschmer, Sponsor
Jackie Dudley, Grade 9, **Mouthpiece's Size Effect On Bacterial Growth** , Pocono Mt East HS, Michael Blough, Sponsor

UNIT 57

Microbiology 9 & 10

Stark Learning Center 370

Tess Reilly, Grade 9, **Food Dye Bacteria** , Mid Valley SC, Joe Rovinsky, Sponsor
Nathan Roppelt, Grade 9, **Does Music Affect Bacterial Growth?** , Holy Redeemer HS, Kelsey Reyes, Sponsor
Jose Cazares, Grade 9, **The A-Maze-ing Slime Mold** , West Scranton HS & MS, Frank Wahl, Sponsor
Ariyanna Hrivnak, Grade 10, **Can Disinfectants Take Away Bacteria** , Greater Nanticoke AHS, Amanda Schraeder, Sponsor
Samantha Legg, Grade 10, **Cell Phones and Bacteria** , Crestwood SD, Jessica Stahlnecker, Sponsor
Kristina Rinaldi, Grade 10, **Bacteria Growth on Organic vs. Non-Organic Chicken** , Pocono Mt East HS, Michael Blough, Sponsor
Keiana Faltz, Grade 10, **What are the Effects of Disinfectants on e.Coli?** , Holy Redeemer HS, Steven Wise, Sponsor
Meghan Duda, Grade 10, **The Effect of Silver Nanoparticles on E.Coli Bacteria** , Greater Nanticoke AHS, Amanda Schraeder, Sponsor
Nicole Capparell, Grade 10, **All Washed Up** , Marian Catholic, Lorraine Piehota, Sponsor
Jacob Vituszynski, Grade 10, **Effectiveness of Antimicrobial Cleaning Agents** , Mid Valley SC, Joe Rovinsky, Sponsor

UNIT 58

Microbiology 11

Stark Learning Center 131

Gianna Manzo, Grade 11, **Effects of Antibacterial Agents on Bacteria Growth** , Mid Valley SC, Joe Rovinsky, Sponsor
Ashley Bound, Grade 11, **What's Best to Disinfect?** , Old Forge, Chris Gatto, Sponsor
Jocelyn Rogers, Grade 11, **Pretty, Dangerous** , Holy Redeemer HS, Steven Wise, Sponsor
Lauren Babinetz, Grade 11, **Investigating Gallus Organ Decellularization** , MMI Prep, Michael Mele, Sponsor
Megen Banas, Grade 11, **Bacterial Transformers** , Greater Nanticoke AHS, Amanda Schraeder, Sponsor
Aaron Srinivasan, Grade 11, **The Effectiveness of Homemade Mouthwash** , Marian Catholic, Lorraine Piehota, Sponsor
Mahad Muhammad, Grade 11, **The Effect of Oil of Oregano on E. coli** , MMI Prep, Michael Mele, Sponsor
Gabriella Kupsho, Grade 11, **Killer Coliphage: The Good, The Bad and The Ugly** , MMI Prep, Michael Mele, Sponsor

UNIT 59

Microbiology 12

Stark Learning Center 380

Daniel Serfass, Grade 12, **The effect of varying dietary factors on the Gut Microbiome** , Pocono Mt East HS, Michael Blough, Sponsor
Chelsea Gamble, Grade 12, **The Copper Cure** , Pocono Mt East HS, Michael Blough, Sponsor

Leah Noldy, Grade 12, **Opti-free or Biotrue: Which Disinfects Better?** , Lakeland JSHS, Laura Mayer, Sponsor
Elizabeth Caccavano, Grade 12, **Studying Chemotaxis in Physarum Polycephalum** , North Pocono HS, Glenn Pettinato, Sponsor
Jonathan Smith, Grade 12, **Effect of Ti Dioxide Nanoparticles on E.coli Growth Rates** , MMI Prep, Michael Mele, Sponsor
Francesca Samony, Grade 12, **Should You Be Eating More Garlic?** , Old Forge, Chris Gatto, Sponsor
Nicholas Woronchuk, Grade 12, **The affects of electromagnetism on cellular** , Abington Heights HS, Rosa Sabie, Sponsor
Hannah Amico, Grade 12, **Antifreeze Protein in Genetically Modified Strawberries** , Lakeland JSHS, Laura Mayer, Sponsor
Chelsea Gamble, Grade 12, **It's Electric!** , Pocono Mt East HS, Michael Blough, Sponsor
Richard Trott, Grade 12, **Using Cooking Oils to Prevent Bacterial Gastroenteritis** , Pocono Mt East HS, Michael Blough, Sponsor
John Kozlosky, Grade 12, **Effectiveness of Different Bacterial Transformations** , Lakeland JSHS, Laura Mayer, Sponsor
Reeya Lele, Grade 12, **Lactobacillus in Yogurt: Does Expiration Matter?** , Wyoming Seminary US, Andrea Nerozzi, Sponsor

UNIT 60

Physics 7

Stark Learning Center 383

Ryan Legg, Grade 7, **Can You Beat the Heat?** , All Saints Acad, Kathleen Rejrat, Sponsor
Carter Laubach, Grade 7, **Does the Height of a Basketball Player Affect the Hang Time?** , Crestwood SD, Michael Stanek, Sponsor
Nicholas Tomaszewski, Grade 7, **What makes ice melt quickest?** , Our Lady of Peace, Dan Banicky, Sponsor
Michael Marion, Grade 7, **Believe the Sleeve** , Our Lady of Peace, Dan Banicky, Sponsor
Stwar Mateo, Grade 7, **What substance melts ice faster?** , West Hazleton Elem MS, Marian Pollack, Sponsor
Viva Barrett, Grade 7, **Battery Brands: Can They Affect Speed** , Freeland MS, Christopher Parise, Sponsor
Logan Rose, Grade 7, **Golf Physics** , North Pocono MS, Larry Dombek, Sponsor
Giovanni Ramos, Grade 7, **Battle of Biofuels: Comparing Nonrenewable & Renewable Fuels** , St Clare/St Paul, Lisa Owens, Sponsor
Ethan Gumula, Grade 7, **Does Temperature Affect the Strength of a Magnet?** , Our Lady of Peace, Dan Banicky, Sponsor
Matthew Motichka, Grade 7, **The Science Behind Looping Rollercoasters** , North Pocono MS, Larry Dombek, Sponsor
Madison Schriver, Grade 7, **Potato Power** , North Pocono MS, Larry Dombek, Sponsor
Wyatt Stelmak, Grade 7, **Up to Bat** , South Scranton IS, Crystal DeAntona, Sponsor

UNIT 61

Physics 7

Stark Learning Center 403

Jocelyn Horvath, Grade 7, **How does watt usage affect the amount of energy produced?** , McAdoo-Kelayres MS, Thomas Kevin Yurkanin, Sponsor
Jake Mackey, Grade 7, **Temperature's effect on viscosity** , Our Lady of Peace, Dan Banicky, Sponsor
Lilly Reilly, Grade 7, **Are two ears better than one? Binaural vs. monaural** , St Clare/St Paul, Lisa Owens, Sponsor
Nathaniel Bacon, Grade 7, **Does Temperature affect Magnetism?** , Valley MS, Jon Weaver, Sponsor
Alicia Dec, Grade 7, **Image Formation by a Convex lens** , LaSalle Acad, Lisa Vladicka, Sponsor
Isabelle Seratch, Grade 7, **Which type of travel mug is the best insulator?** , Valley MS, Jon Weaver, Sponsor
Leeora Galaydick, Grade 7, **Can you charge a phone with coins?** , Fell Charter School, Michael Rescigno, Sponsor
Ava Zions-Smith, Grade 7, **Electrolyte Challenge** , Drums Elem MS, Michael Bugda, Sponsor
Gordon Kopa, Grade 7, **Don't Resist the Electricity** , South Scranton IS, Katona Miller, Sponsor
Molly Znachko, Grade 7, **Which brand of ice melt is most effective at melting ice?** , Valley MS, Jon Weaver, Sponsor
Michael Nicotera, Grade 7, **Which Truss Should You Trust?** , St Jude Mountain Top, Marilyn Baran, Sponsor
Jenna Kubitz, Grade 7, **Which brand of paper towel is the strongest?** , Valley MS, Jon Weaver, Sponsor

UNIT 62

Physics 7 & 8

Stark Learning Center 405

Odrey Vargas, Grade 7, **Do Drinks Stay Colder In Cans or Bottles?** , Heights Terrace Elem MS, Christine LaMonica, Sponsor
Joel Perez, Grade 8, **Orange juice vs sports drink** , West Hazleton Elem MS, Marian Pollack, Sponsor
Chase Duffy, Grade 8, **Paper towel project** , Our Lady of Peace, Dan Banicky, Sponsor
Tristan Haraschak, Grade 8, **Does Temperature Affect A Magnet's Strength?** , Freeland MS, Christopher Parise, Sponsor

Patricia Olsen, Grade 8, **Colors Effect on Heat Absorption** , Pocono Mt East HS, Maureen Elswick, Sponsor
Jack Krehely, Grade 8, **The Effects of Conductivity On Different Metals** , North Pocono MS, Larry Dombek, Sponsor
William Walsh, Grade 8, **Witness Thickness** , South Scranton IS, Katona Miller, Sponsor
Benjamin Thompson, Grade 8, **Chill Out** , North Pocono MS, Larry Dombek, Sponsor
Maxwell Rosen, Grade 8, **Rocking the Boat** , Holy Rosary Sch, Lisa Casey, Sponsor
Joseph Talarico, Grade 8, **Can you See Sound** , St Clare/St Paul, Lisa Owens, Sponsor
Matt Metzger, Grade 8, **Coming Together: Bernoulli's Principle** , West Scranton HS & MS, Frank Wahl, Sponsor
Maya Yagan, Grade 8, **Which Battery Brand Lasts the Longest?** , Pocono Mt East HS, Maureen Elswick, Sponsor

UNIT 63

Physics 8

Stark Learning Center 411

Nicholas Matthews, Grade 8, **Hooke's Law** , Crestwood SD, Michael Stanek, Sponsor
Megan McDonald, Grade 8, **Why is my Picture Blurry?** , Our Lady of Peace, Dan Banicky, Sponsor
Isabelle Ritz, Grade 8, **What wood is the strongest?** , Valley MS, Jon Weaver, Sponsor
Molly Dougherty, Grade 8, **Roller Coasters - Defying Gravity** , West Scranton HS & MS, Frank Wahl, Sponsor
Matthew Albrecht, Grade 8, **Unlimited Light** , Good Shepherd Acad, Janice Ambrulavage, Sponsor
Kevin Jumper, Grade 8, **Bouncin' Golfballs** , Our Lady of Peace, Dan Banicky, Sponsor
Jack Allardyce, Grade 8, **Gravity in Motion** , Our Lady of Peace, Dan Banicky, Sponsor
Abigale Kellogg, Grade 8, **"Blowing Bubbles"** , All Saints Acad, Kathleen Rejrat, Sponsor
Calvin Hubbard, Grade 8, **Phone Radiation** , Pocono Mt East HS, Maureen Elswick, Sponsor
Grace Wolsieffer, Grade 8, **How does ambient temperature affect heat loss of an object?** , St Nicholas St. Mary, Janice Szczechowicz, Sponsor
Santiago Churion, Grade 8, **What type of firewood burns the longest?** , Pocono Mt East HS, Maureen Elswick, Sponsor
James Kelly, Grade 8, **Kicking a Soccer Ball** , MMI Prep, Michael Mele, Sponsor

UNIT 64

Physics 8 & 9

Stark Learning Center 424

John Lamasko, Grade 8, **A Battery That Makes "Cents"** , Freeland MS, Christopher Parise, Sponsor
Matthew Urban, Grade 8, **The Effect of Temperature of a Magnet** , Wyoming Seminary LS, Lisa Iskra, Sponsor
Matt Tressler, Grade 8, **The Charger Experiment** , Our Lady of Peace, Dan Banicky, Sponsor
Shane Mathiesen, Grade 8, **How an Object's Mass Affects its Acceleration due to Gravity** , Abington Heights MS, Rosa Sabie, Sponsor
Jacob Stankowski, Grade 8, **The Deflate Gate** , South Scranton IS, Katona Miller, Sponsor
Travis Lane, Grade 8, **Batter Up!** , North Pocono MS, Larry Dombek, Sponsor
Keefer Wu, Grade 8, **Wave-Particle Duality** , Wyoming Seminary LS, Lisa Iskra, Sponsor
Gabrielle Edwards, Grade 8, **Will Low Temperature Effect Batteries?** , North Pocono MS, Larry Dombek, Sponsor
Tyler Mendicino, Grade 8, **Swing Batter** , Our Lady of Peace, Dan Banicky, Sponsor
Emily Ferguson, Grade 8, **Think About Your Drink** , All Saints Acad, Christine Hopkins, Sponsor
Dean Nyberg, Grade 9, **Temperature's Effect on Pitch** , Pocono Mt East HS, Michael Blough, Sponsor
James Marsh, Grade 9, **Hot Feet** , Holy Cross HS, Jillian Rojek, Sponsor

UNIT 65

Physics 9 & 10

Stark Learning Center 434

Christopher Talluto, Grade 9, **Sink or Float Soda** , Mid Valley SC, Joe Rovinsky, Sponsor
Lance Jenson, Grade 9, **Thermal Expansion** , Greater Nanticoke AHS, Anthony Fleury, Sponsor
Tori Kovalchick, Grade 9, **Refraction: How it Affects the Speed of Light** , Holy Cross HS, Jillian Rojek, Sponsor
Jack Pence, Grade 9, **Do cold and warm magnets affect the velocity of water?** , Pocono Mt East HS, Michael Blough, Sponsor
Abigail Franzo, Grade 9, **How does the part of the foot affect the speed of a ball?** , Pocono Mt East HS, Michael Blough, Sponsor
Robert Troy, Grade 9, **Looping The Loop** , Scranton Prep, Bridget Kotchick, Sponsor

Antonio Pugliese, Grade 9, **Using a Laser to Measure Salinity** , West Scranton HS & MS, Frank Wahl, Sponsor
Lucas O'Neill, Grade 10, **Flight of a Ping Pong Ball** , Forest City RHS, Audrey Nebzydoski, Sponsor
Michael Olsen, Grade 10, **Color of an LED's Effect on Thermal Equilibrium** , Pocono Mt East HS, Michael Blough, Sponsor
Dylan Rowland, Grade 10, **Skeet Science** , Carbondale AHS, Jessica Trichilo, Sponsor
Brendan Braatz, Grade 10, **Kinetic Energy Test** , Scranton Prep, Bridget Kotchick, Sponsor
Kianna Savage, Grade 10, **Slippin' Away** , Carbondale AHS, Jessica Trichilo, Sponsor

UNIT 66

Physics 10 & 11

Stark Learning Center 435

Rocco Polimeni, Grade 10, **Focusing a Wi-fi Signal** , Pocono Mt East HS, Michael Blough, Sponsor
Nick Ostrowski, Grade 10, **Which Cell Phone Emits the Most Radiation?** , North Pocono HS, Glenn Pettinato, Sponsor
Richard Fried, Grade 10, **Newton vs. Einstein: Geodesics in General Relativity** , Abington Heights HS, Rosa Sabie, Sponsor
Madison Hoover, Grade 10, **Cooling with Evaporation** , Greater Nanticoke AHS, Anthony Fleury, Sponsor
Evan Stecco, Grade 11, **Downforce Applied to Spoilers** , Greater Nanticoke AHS, Barb Warman, Sponsor
Kassandra Rinker, Grade 11, **Food Dyes and Gel Electrophoresis** , Greater Nanticoke AHS, Anthony Fleury, Sponsor
Aaron Miller, Grade 11, **Viscosity** , Greater Nanticoke AHS, Anthony Fleury, Sponsor
Danielle Shermock, Grade 11, **The Effect of Surface Area on Traction** , Pocono Mt East HS, Michael Blough, Sponsor
Gabby Hanstein, Grade 11, **Just Go With The Wave** , Scranton Prep, Bridget Kotchick, Sponsor
Oliver(Chen-Yang) Lin, Grade 11, **Nano Science in Everyday Life** , Holy Cross HS, Jillian Rojek, Sponsor
William Bekanich, Grade 11, **Which is better Copper or Pex?** , Honesdale HS, Rebecca Kretschmer, Sponsor
William Thomas, Grade 11, **Pen Power** , North Pocono HS, Glenn Pettinato, Sponsor

UNIT 67

Physics 11 & 12

UCOM 126

Andrew Tieszen, Grade 11, **Which Type of Airplane Flap is Most Efficient?** , Pocono Mt West HS, Susan Thackara, Sponsor
Sabrina Holevinski, Grade 11, **Speed of Sound at Different Temperatures** , Greater Nanticoke AHS, Anthony Fleury, Sponsor
Jack Malay, Grade 11, **Nuclear Ping-Pong** , MMI Prep, Michael Mele, Sponsor
Lisa McDonough, Grade 11, **Cutting News: Wind Turbines** , Hazleton AHS, Jeff Koch, Sponsor
Emily Brzozowski, Grade 11, **Measuring Speed of Light and Index of Refraction with Gelati** , Greater Nanticoke AHS, Anthony Fleury, Sponsor
Sophia Ficarro, Grade 11, **Material Stress and Effect on Accuracy** , Mountain View HS, Erin Rupp, Sponsor
Arjun Iyengar, Grade 11, **Fiber Optic Cables** , Abington Heights HS, Rosa Sabie, Sponsor
Maura Nevins, Grade 12, **C. S. I. Blood Splatter** , Carbondale AHS, Jessica Trichilo, Sponsor
Mitchell O'Connor, Grade 12, **Drag of Model Rocket Nosecones** , Scranton Prep, Bridget Kotchick, Sponsor
Collin Halagarda, Grade 12, **Hitting it Hard From the Yard: Int. Vs. Ex. Fire Suppression** , Holy Redeemer HS, Steven Wise, Sponsor
Sam Myers, Grade 12, **An Investigation of Comparative Specific Heats of Vegetables** , Abington Heights HS, Rosa Sabie, Sponsor
Andrea Grey, Grade 12, **Rotary Blades** , Greater Nanticoke AHS, Anthony Fleury, Sponsor

UNIT 68

Zoology 7, 8, 9 & 10

UCOM 127

Gianna Genco, Grade 7, **Big or Little: Does it make a difference?** , Our Lady of Peace, Dan Banicky, Sponsor
Alexandra Mariotti, Grade 7, **Cat Vision** , Our Lady of Peace, Dan Banicky, Sponsor
Angelesa DeNaples, Grade 7, **Testing Horse Treats Straight from the Horse's Mouth** , Our Lady of Peace, Dan Banicky, Sponsor
Maria Spinelli, Grade 7, **Fighting Fish** , Forest City RHS, Audrey Nebzydoski, Sponsor
Hunter Gebert, Grade 8, **The Effects of Soda on Daphnia Heart Rate** , Western Wayne MS, Christine McClure, Sponsor
Jordan Mackey, Grade 8, **Cat Toy Test** , Our Lady of Peace, Dan Banicky, Sponsor
Caydence Faatz, Grade 8, **The Effects of Environment on Daphnia Heart Rate** , Western Wayne MS, Christine McClure, Sponsor
Hannah Price, Grade 9, **Fur color** , Pocono Mt East HS, Michael Blough, Sponsor

Katie Nebzydoski, Grade 10, **Effects Of Lactation Stage On Casein Concentration In Bovine** , Forest City RHS, Audrey Nebzydoski, Sponsor
Maggie Kowalewski, Grade 10, **Classical Conditioning in Planaria** , Forest City RHS, Audrey Nebzydoski, Sponsor

UNIT 69

Zoology 10, 11 & 12

UCOM 134

Brianna Metschulat, Grade 10, **Is a Swine mouth cleaner than a Human mouth** , Western Wayne HS, Christine McClure, Sponsor
Andrew Decker, Grade 10, **Can a mold solve a maze?** , MMI Prep, Michael Mele, Sponsor
Evan Simmons, Grade 10, **Are Dugesia Phototactic?** , Pocono Mt West HS, Susan Thackara, Sponsor
Grace Okrepkie, Grade 10, **Goldfish Respond to Certain Conditioned Stimuli** , Holy Cross HS, Jennifer Leone, Sponsor
Nicholas Govus, Grade 11, **EMF's effect on the heart rate of ghost Shrimp** , Pocono Mt East HS, Michael Blough, Sponsor
Joshua Kalada-Kania, Grade 11, **Sink or Swim, The Effects of Surfactants on Wolf Spiders** , MMI Prep, Michael Mele, Sponsor
Emma Lawson, Grade 12, **Just Your Average Cow** , Honesdale HS, Rebecca Kretschmer, Sponsor
Damien Simpson, Grade 12, **Wavelength Specificity of Artemia artemia** , Honesdale HS, Rebecca Kretschmer, Sponsor
Lainie Sarnoski, Grade 12, **Movement and Dairy Production Correlation** , Lakeland JSHS, Laura Mayer, Sponsor