

**UNIT 106****PHYSICS 7 & 8****304 WAGNER**

Suraj Parikh, *The Effect of the Paper Airplane's Shape on It's G*, Region 1C, Shafer MS, Denise Little, Sponsor  
 Osman Khwaja, *Colors' Effect on Heat Absorption and Retention*, Region 7, Franklin Regional MS, John Blank, Sponsor  
 Eric Stahl, *Does the density of a liquid correlate with its viscosity*, Region 10, W Wilson MS+F1197, Keith Riley, Sponsor  
 Zachary Daniels, *Can you hear me now? Sound insulators vs. Conductors*, Region 3, Nitschmann MS, Lisa Draper, Sponsor  
 Emily Last, *Which substance affects the range of a wireless router*, Region 10, Sacred Heart Erie, Kristine Finck, Sponsor  
 Colton McClure, *Testing Aerodynamics*, Region 4, GW Feaser MS, Jody Wenrich, Sponsor  
 Rachel Stager, *Drop Height vs. Bounce Height of Tennis Balls*, Region 2, Stroudsburg JHS, Tiffany Smith, Sponsor  
 Mark Harris, *Which Brand of AA Battery Last the Longest?*, Region 8, Madonna Catholic RS, Paul Bakos, Sponsor  
 Jalme Loop, *Can tape help prevent the puncturing of a balloon*, Region 10, JoAnna Connell School, Amanda Shields, Sponsor  
 Aaron Kanapesky, *What Material Insulates Heat Most Efficiently*, Region 9, Sts. Peter and Paul, Louella Cavalier, Sponsor

**UNIT 107****PHYSICS 7 & 8****303 WAGNER**

Nandha Ramasubramanian, *How much time it takes for the pendulum to swing 20 periods*, Region 10, Corry AMS, Sara Folino, Sponsor  
 Chad Borish, *The Effects of Melting Times on Different Types of*, Region 1C, Shafer MS, Denise Little, Sponsor  
 Joseph Luciano, *Does the amount of pumps of super soaker determine distance*, Region 10, Wayne MS, Kirsten Rinkevich, Sponsor  
 Joe Dille, *Dragster Wing Effectiveness*, Region 1B, Indian Crest JHS, Nancy Greshock, Sponsor  
 Chintan Patel, *Friction and Surface*, Region 1C, Snyder MS, Denise Little, Sponsor  
 Dylan Mack, *Does the color of a background effect how hot something gets*, Region 9, Blairsville MS/HS, Karen Kunkle, Sponsor  
 Bria Edwards, *How Does Coil Size Effect an Electromagnet's Strength?*, Region 2, Drums Elem MS, Mr. Yurkanin, Sponsor  
 Zachary Hudak, *A Comparison of Heat Conducting Abilities of Certain Metals*, Region 8, Madonna Catholic RS, Paul Bakos, Sponsor  
 Richard Gayler, *What is the Most Cost-effective Way to Run and MP3 Player?*, Region 7, North Allegheny MS, Anne Marklewicz, Sponsor  
 Ben Henry, *Does the length of a paintball barrel affect the distance*, Region 10, Erie DS, Patricia Mayton, Sponsor

**UNIT 108****PHYSICS 7 & 8****214 WAGNER**

Nathan Repasz, *Effect of the amount of amperes on an induced musical note*, Region 10, Erie DS, Patricia Mayton, Sponsor  
 Dominique Mitch, *How does freezing temperature affect different liquids*, Region 10, W Wilson MS, Melissa Kolb, Sponsor  
 Dillon Brennan, *Content Ratio and the Strength of Concrete*, Region 1C, Shafer MS, Denise Little, Sponsor  
 Steven Kinney, *Awesome Cross*, Region 3, St. John Neumann RS, Frances Lenahan, Sponsor  
 Alex Goodhart, *Popcorn Brands*, Region 1C, Shafer MS, Denise Little, Sponsor  
 Jonathan Kabana, *Bowling Balls and Mass*, Region 7, St Joseph - Regional, Sally Gooch, Sponsor  
 Nicholas Steves, *Which paper airplane flies the farthest*, Region 10, Jefferson ES, Richard Boesch, Sponsor  
 Daniel Tatman, *Tape Study*, Region 8, Peters Township MS, Jennifer Palko, Sponsor  
 Emily Robenolt, *Insulation*, Region 4, Susquenita MS, Robert Wright, Sponsor  
 George Dickson, *Which Parachute Design is Most Effective*, Region 1A, Strath Haven MS, Jen Gillespie, Sponsor

**UNIT 109****PHYSICS 7 & 8****206 WAGNER**

Jacob Palnick, *The effect of different materials between a tesla coil and a*, Region 7, Reizenstein MS, Gregg Franklin, Sponsor  
 Hunter Hoffman, *Powder in a Cartridge Vs. Velocity of a Bulle?*, Region 5, St. Monica, Monica Shovlin, Sponsor  
 Trevor Allburn, *At what pressure do different types of jaw breakers break*, Region 10, North East MS, Amy Wagner, Sponsor  
 Alexis Nyekan, *Melting Ice Cubes*, Region 1C, Shafer MS, Denise Little, Sponsor  
 Elizabeth McIntosh, *What support beam shape will be architecturally strongest*, Region 10, Wayne MS, Kirsten Rinkevich, Sponsor  
 Marc Shively, *The Strongest Mortar*, Region 7, St Joseph - Regional, Sally Gooch, Sponsor  
 Michael Parrotta, *The "sticky" situation*, Region 2, Pocono Mt West HS, Cathy Golomb, Sponsor  
 Corina Skerlec, *Do Different Temps. Affect the Molecules Inside a Balloon?*, Region 9, Sts. Peter and Paul, Louella Cavalier, Sponsor  
 Matt Knauer, *Massive Flight!*, Region 5, St. Monica, Monica Shovlin, Sponsor

**UNIT 110****PHYSICS 7 & 8****201 WAGNER**

Sara Glance, *What type of ball bounces the highest*, Region 10, W Wilson MS, Keith Riley, Sponsor  
 Buddy Aldrich III, *Will temperature affect the soccer ball when kicked*, Region 10, Sacred Heart Erie, Kristine Finck, Sponsor  
 Lindsey Golden, *Suspension vs Truss: Which Bridge is Best?*, Region 8, Peters Township MS, Susan Hanley, Sponsor  
 Michael Ryan, *The Effects of Artificial Light on a Solar Cell*, Region 1C, Shafer MS, Denise Little, Sponsor  
 Daniel Shamkhorskaya, *The Effect of Weight on Wet Paper Towels*, Region 1C, Shafer MS, Denise Little, Sponsor  
 Tobias Koppel, *Comparing the Actual & Ideal Values of Platè Capac*, Region 1B, Cheltenham HS, Frank Lipinski, Sponsor  
 William Miklos, *How Size and Configuration of Ductwork Effects Air Flow.*, Region 3, St. John Neumann RS, Frances Lenahan, Sponsor  
 Elise Farris, *How Ice Skates Work*, Region 9, Our Lady of Fatima, Mrs. Martin, Sponsor  
 Matthew Perlman, *The Effect of Different Weights on a Parachute's A*, Region 1C, Shafer MS, Denise Little, Sponsor  
 Carly Pina, *A Swinging Good Time*, Region 7, St Bartholomew EL, Natalie Arezina, Sponsor

**UNIT 307****PHYSICS 7****316 WAGNER**

Alicia Hutchison, *How materials in a field hockey stick effect travel of ball*, Region 3, Springhouse MS, Al Grout, Sponsor  
 Jordan Felice, *What material works best in a sandbag to block floodwater*, Region 10, St Luke, Christine Kapper, Sponsor  
 Mate Jurkovic, *Which golf ball goes the farthest*, Region 10, Cathedral Center, Rosemary Grove, Sponsor  
 Rebecca Shute, *Hurricane-proof Roofs*, Region 9, Beaver Area SD, Donna Nunamaker, Sponsor  
 Jon DiFilippo, *22 Long Rifle Penetration*, Region 8, California Area MS, David Lowden, Sponsor  
 Nicholas Farrell, *The Strength and Efficiency of Different Glues*, Region 7, Mary Queen of Apostles, Kestner/Collett, Sponsor  
 Rachael Passauer, *Does temperature affect magnetic force*, Region 10, Our Lady of Peace, William Hansen, Sponsor  
 Tommy Parsons, *Does Position of Weight Alter a Toy Cars Speed?*, Region 1B, Sandy Run MS, G Hite, Sponsor  
 Amanda Knauer, *How does weight effect the distance an object travels*, Region 10, Our Ladys Christian School, Fay Nelson, Sponsor  
 Gabrielle Gorman, *Comparison of bounce of basketballs on various surfaces*, Region 3, The Swain School, Debbie Lindsay, Sponsor

**UNIT 308****PHYSICS 7****317 WAGNER**

Alicia Barry, *Let's Go Fly A Kite*, Region 1B, Murray Avenue School, Kevin Maginn, Sponsor  
 Wes Kline, *Effects of tube length on frequency of a sound.*, Region 3, Eyer MS, Mike Hubbs, Sponsor  
 Daniel Rigberg, *What Is The Relationship Between Electric Current And Magnet*, Region 4, Hershey MS, JoAnn Delaney, Sponsor  
 Frank Wolf, *The Aerodynamics of a Paper Airplane*, Region 7, St Alphonsus School, Nancy Snyder, Sponsor  
 Genny Bormes, *Does Mass Affect the Speed of an Object?*, Region 2, Our Lady of Peace, Eileen Bormes, Sponsor  
 Jenna Berkeny, *What is the effect of finger placement on a violin string*, Region 10, Our Ladys Christian School, Fay Nelson, Sponsor  
 Jenna Bauer, *In which condition does a tennis ball bounce highest*, Region 10, St Luke, Christine Kapper, Sponsor  
 Andrew Saunders, *Which Bullet Shape Penetrates the Best?*, Region 9, Freeport Area SD, Donald Orlowski, Sponsor  
 Bret Lesavoy, *Play Ball*, Region 3, Springhouse MS, Al Grout, Sponsor  
 Mary McCormick, *Which type of wax has the fastest burning rate*, Region 10, Cathedral Center, Rosemary Grove, Sponsor

**UNIT 309****ZOOLOGY 7 & 8****320 WAGNER**

Christa Van Volkenburg, *The effect of colored light on brine shrimp*, Region 7, Assumption EL, Spindler/Stock, Sponsor  
 Benjamin Pritz, *The Effect of Nicotine on Planaria Regeneration*, Region 7, St Louis de Marillac EL, Dori Lijewski, Sponsor  
 Naomi Marshall, *Which Mouth Has the Most Bacteria?*, Region 9, St. Michael School, Terri Korcinsky, Sponsor  
 Jennifer Huang, *Can Garlic and Onions be used as a Natural Pesticide*, Region 1B, Arcola IS, D Prendergast, Sponsor  
 Laura Humphrey, *Can Earthworms Recycle Kitchen Wastes into Fertile Soil?*, Region 7, Christ the Divine Teacher Acad, Kathi Ferguson, Sponsor  
 Andrea Verghese, *How does magnetism affect the foraging of ants?*, Region 3, Eyer MS, Heidi Rauch, Sponsor  
 Alexander Masetti, *Is crayfish color affected by background color?*, Region 3, St. Joseph the Worker, Cortiss Reed, Sponsor  
 Karl Balmer, *Which Feed Will Fatten Them Up?*, Region 1B, Penn View Christian School, Harry Anselmo, Sponsor  
 Hanna Kauff, *The Effect of Acid Rain on the Heart Rate of Daphnia Magna*, Region 7, Mary Queen of Apostles, Kestner/Collett, Sponsor  
 Jesslca Gorecki, *What is the effect of light and dark on ants*, Region 10, Harding School, Nick DeSantis, Sponsor

**UNIT 310****ZOOLOGY 7 & 8****109 FISHER**

Bethany Kifer, *Do Bait Colors and Water Conditions Affect Steelhead?*, Region 9, St. Joseph School, Margaret Alford, Sponsor  
 Mariah Borkowski, *How does gender affect a mouses time to run a maze*, Region 10, Villa Maria Elementary, Mary Wright, Sponsor  
 Vicky Martin, *Can Birds Learn a Foreign Language?*, Region 7, St Joan of Arc, Martik/Matter, Sponsor  
 Nicole Taschier, *What is effect of various soils on earthworm growth?*, Region 3, St. Joseph the Worker, Cortiss Reed, Sponsor  
 Lauren Lynam, *Effect of Light & Temperature on Development of Mealworms*, Region 7, Mary Queen of Apostles, Kestner/Collett, Sponsor  
 Justin Zupanek, *How does caffeine affect the death rate of Daphnia pulex?*, Region 7, Carnalt EL, Preston/Ulmer, Sponsor  
 Roby Thomas, *Comparing the Effect of Artificial Sweeteners on W*, Region 1C, Baldi / Pennypack EC, Dominic Fedele, Sponsor  
 Nick Kiddo, *Does caffeine affect the heart rate of daphnia magna*, Region 10, Iroquois JSHS, Shannon Glennon, Sponsor  
 Hannah Lazuka, *Are Mice Really Attracted to Cheese?*, Region 8, St Mary Nativity, Donna Novak, Sponsor  
 Timothy Kaniecki, *Does Drosophila Gender Affect Response to Repellants?*, Region 7, Providence Heights Alpha, Spencer/Melocchi, Sponsor

**UNIT 311****ZOOLOGY 7 & 8****103 FISHER**

Brianna Wright, *Chromosomal Mutation as a result of Cigarette Smoke in Drosophila*, Region 7, Sacred Heart EL, Lorraine McDonough, Sponsor  
 Haley Nedock, *Through the Eyes of a Canine*, Region 6, Cambria Heights MS, Laura Fisanick, Sponsor  
 Maggy Ashton, *What will the effects of trauma be to v chrysalis*, Region 10, J W Parker MS, Karen Yonko, Sponsor