

Synopsis Championship 2014 Master Project List

Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
A99	061-110-1	Bot	F	Nellie Tonev		Micro Madness
A97	061-111-12	Bot	M	Oriel Zagazeta		How Does Life React to Microwave Radiation?
A95	061-120-10	Bot	F	Stephanie Chen		Rescuing Plants from Acid Rain
A91	061-121-8	Bot	F	Paige Ashton		Rose Pigment Chromatography
A89	061-130-6	Bot	F	Courtney Young		Succulent Plant Growth Under Extreme Environmental Conditions
A87	061-131-4	Bot	F	Tanvi Gaitonde		Radioaction - Effect of Cell Phone Radiation on Plants
A85	061-140-2	Bot	F	Ankitha Girish		Optimum Soil for Plant Growth
A81	061-150-11	Bot	F	Reem Suleiman		Lights and Plants - It's a Wave-y Relationship
A77	061-160-7	Bot	F	Kuhoo Gupta		Leaf Pigments
A75	061-170-3	Bot	F	Alisha Gupta		Classification of Leaves
A73	061-180-12	Bot	F	Tanshi Jain		Miracle Workers-Investigating the Effect of Different Antioxidants on the Growth of Irradiated Seeds
A71	061-190-8	Bot	F	Kayla Brand		The Color of Light Affects the Growth of Geranium Roots
A69	061-210-6	Env	M	Matthew Su		How to conserve water in gardens
A67	061-211-4	Env	F	samantha Brackett		magnifying solar cells
A65	061-220-2	Env	F	Anusha Ghosh		Making Hydraulic Fracturing More Environmentally Friendly Using Sea Water
A63	061-221-13	Env	M	Kobi Johnsson		Smog Test: Diesel vs. Hybrid
A61	061-240-7	Env	F	Kylie Akiyama		Which Road De-icer is the Best for the Environment?
A59	061-260-12	Env	M	Nicholas Kocher		Grime On Solar Panels
A57	061-270-8	Env	F	Sangeeta Koilada		The Effect of Ferrous Nanoparticles on Oil Spill Cleanup
A55	061-280-4	Env	M	Aditya Behal		The Effect of Different Types of Sorbents on Cleaning Up an Oil Spill
A53	061-290-13	Env	M	Ian Cramb		Got Gas
A51	061-310-11	Zoo	F	Aleema Garfinkel		Pest Problems!
A47	061-320-7	Zoo	F	Abigail Martinez		Pill Bug Habitat Investigation
A45	061-410-3	Soc	F	Maya Abiram		Effect of Meditation on Weight Loss
A43	061-420-12	Soc	F	Zara Shariff		Does the Eye Read Full Words or Individual Letters?
A41	061-510-8	Med	M	Tarun Chiruvolu		Healing Bruises with Wearable Devices
A39	061-530-13	Med	F	Bella Fuller		Which drink makes the largest difference to a type one diabetics blood glucose in fifteen minutes
A37	061-540-9	Med	F	Athena Fung		A Healthy Heart: Reversing the Effects of Copper Toxicity with Vitamin B12
A35	061-560-1	Med	F	Nidhi Gowda		How Sweet Is It: Measuring Glucose Levels
A33	061-610-13	Bio	F	Eesha Pamula		Effects of Cooking on Different Organic Foods
A31	061-620-9	Bio	M	Kunal Sheth Sheth		Effect of Magnetic Field on Yeast Growth
A29	061-650-10	Bio	M	Omar Khalil		How Mold Grows
A27	061-660-6	Bio	M	Joshua Thomas		Micro Biology
A25	061-670-2	Bio	F	Ananya Vadlakonda		The Effect of Chlorine Bleach on the Heart Rate and Death Rate of Daphnia Magna
A23	061-680-11	Bio	F	Fionnuala LaTourrette		What can best prevent mold growth on your Jack-O-Lanterns?
A21	061-710-5	Chem	F	Sena Atesoglu		Using Banana Peels as a Green Solution to Reduce Arsenic Levels in Water
A19	061-711-3	Chem	M	Rithik Jain		Neutralizing with Nature - The Effect of Natural Antacids on the Neutralization of Stomach Acid
A17	061-712-1	Chem	F	Anna Tomz		What is the Best Adhesive? Comparing Sugru -- a New Invention -- and

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						Other Adhesives
A15	061-720-1	Chem	F		Shannon Miranda	Beet it! Reducing Road Corrosion with a Greener Solution
A11	061-721-12	Chem	F		Nicole Oliva	Does Storage Temperature Affect Battery Strength?
B10	061-722-10	Chem	F		Audrey Scott	Ohm My Gosh
B14	061-730-10	Chem	F		Hanne Holtan	Solubility of sugar in water at different temperatures
B16	061-731-8	Chem	F		Shreya Ramnath	How much energy is released per gram of different fuels?
B18	061-732-6	Chem	F		Sarah Young	How Does Acid Affect the Rate of Corrosion?
B20	061-740-6	Chem	F		Amelia Gleixner	Polymer Elasticity
B22	061-741-4	Chem	M		Rohan Cherukuri	Factors that Affect Battery Voltage
B24	061-742-2	Chem	F		Olivia Jones	Hot and Cold Candles
B26	061-750-2	Chem	F		Freya D'Souza	Which Food Has The Most Sugar
B28	061-751-13	Chem	F		Sanjana Yerramaneni	What is the effect of lemon juice, water, and saltwater on steel wool?
B30	061-752-11	Chem	F		Sarah Heath	Great Globbs of Gluten!
B32	061-760-11	Chem	M		Deepan Shah	How much glucose is in your juice?
B34	061-761-9	Chem	M		Arian Torshizi	Endothermic Reaction
B36	061-770-7	Chem	M		Zaid Khan	Paper Chromatography
B38	061-772-3	Chem	F		Alissa Friedman	Fizzzz!
B40	061-780-3	Chem	F		Sameeha Salman	Fade,Fade,Fade Away!
B42	061-781-1	Chem	F		Manya Zhao	Does the Amount of Yeast Affect the Density of Bread?
B44	061-782-12	Chem	F		Isabelle Schlegel	Need an Instant Ice Pack?
B46	061-790-12	Chem	F		Ankita Reddy	Measuring the amount of vitamin c in citrus juices
B50	061-791-10	Chem	F		Emma Riordan	The Effect of Additional Water on the Weight Supporting Properties of Jello
B52	061-792-8	Chem	M		Mekhyle Ndah	Using Recycled Materials to Clean Water
B54	061-810-10	Phy	M		Ojas Upalekar	Evaporating Water
B56	061-811-8	Phy	M		Grant Robinson	Which Catapult Settings Can Hit Each of the Target Zones the Most?
B58	061-812-6	Phy	F		Vyomika Gupta	Cooling Milk
B60	061-813-4	Phy	F		Sydney Liao	How blade design and material effect energy generate by wind turbine
B62	061-820-6	Phy	M		Marcus Ma	Too Hot to Handle: How Does the Exterior Color of a Car Affect Its Interior Air Temperature in the Sun?
B64	061-821-4	Phy	F		Ariel Bachman	Sound Travel in Liquids
B66	061-823-13	Phy	F		Rashi Agarwal	Can water float on water
B68	061-830-2	Phy	F		Adishree Ghatare	What is the effect of the reflecting angle and type of reflector on the efficiency of a solar cooker?
B70	061-831-13	Phy	M		Harsha Ramachandran	Hang in there, Pendulum Bob. We'll find out What Affects your Frequency.
B72	061-840-11	Phy	M		Mihir Godbole	Solar Panels
B74	061-841-9	Phy	F		Isabel Sperandio	How do you improve the solar panels?
B76	061-842-7	Phy	M		Tre Orlando	Voltage and Magnetism
B80	061-850-7	Phy	F		Lily Guggenheim	Good Vibes
B84	061-851-5	Phy	F		Kristin Cheung	Sound Absorption and Frequency
B86	061-860-3	Phy	M		Andrew Nazareth	Radiation: How Safe Are You With Your Daily Devices?
B88	061-861-1	Phy	M		Siddharth Ganesan	The Leyden Jar- The Original Capacitor

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B90	061-862-12		Phy	F	Laila Davison	At what diameter does an aluminum boat sink?
B94	061-870-12		Phy	M	Yousef Binzubair	which aerodynamic plane body produces least air resistance to air?
B96	061-871-10		Phy	M	Ashvatth Maheriya	What are the factors that affect terminal velocity?
B98	061-872-8		Phy	F	Fatima Ahmed	Solar Tesla
B99	061-880-8		Phy	F	Merilyn Kuo	How Does Color Affect the Heat Absorption of Different Lights?
B97	061-881-6		Phy	F	Ana Gamboa-Gonzalez	Marbles in the Viscosity Lane - Effect of Liquid Density and Temperature on Viscosity
B95	061-882-4		Phy	F	Kamryn Richardson	Ring Ring! Radiation Calling.
B91	061-890-4		Phy	M	Shobhan Mangla	Stealthy Shapes
B89	061-891-2		Phy	M	Gregory Brown	Rubber Band Powered Car
B87	061-892-13		Phy	F	Michaela Yip	Trusses
B85	061-910-2		Ear	F	Saahiti Vankayalapati	Which is the better insulation material?
B81	061-911-13		Ear	F	Abby Guzules	erosion
B77	061-920-11		Ear	M	Anthony Vu	The Disintegration of the Great Rome (Apple): A Study of the Effects of Different Soils on the Biodegradation Rate of Organic Matter
B75	061-930-7		Ear	M	Ethan Lai	How Soil Affects The pH of Water
B73	061-940-3		Ear	F	Dania Kirmani	Danger: Flood Zone
B71	061-960-8		Ear	F	Shannon Lin	Exploring the Ice Wedging Phenomenon
B69	061-980-13		Ear	F	Daniela Dayen	Get Your pHd in Soil Science
B67	061-990-9		Ear	M	Izaak Rios	Soil pH
B65	061-A10-7		Eng	M	Arman Durrani	Fire, Fire, Burn Me Not
B63	061-A11-5		Eng	F	Anuva Banwasi	Smart Thermostats - Fun with Arduino
B61	061-A20-3		Eng	M	Chinmay Lalgudi	Using Wave Energy to generate Electricity
B59	061-A21-1		Eng	M	Quang-Dan Tran	Tool to Select Best Roof to Install Solar Panels
B57	061-A41-6		Eng	M	Ryan Dilag	RADIATED ENERGY DETECTION
B55	061-A51-2		Eng	F	Sanjana Nandi	Homemade Resuable Handwarmers
B53	061-A60-13		Eng	M	Neil Kapoor	Automatic Fish Feeder
B51	061-A61-11		Eng	M	Raghav Ganesh	Sensor based cane for the visually challenged
B47	061-A70-9		Eng	M	Pranay Satya	Pesky Signals Versus Charged-Up Cars: The effect of metals of different dimensions at different distances on an electromagnetic induction road sensor
B45	061-A71-7		Eng	M	Ayinde Olukotun	What Aspects of Car Design Produce Maximum Energy Efficiency?
B43	061-A81-3		Eng	F	Shilpa Rao	Does that fancy seismograph really work? Testing a phone's mems sensor against a homemade seismograph.
B41	061-A90-1		Eng	M	Aatish Lobo	When a Magnet Can't Breathe
B39	061-B10-12		Comp	F	Swati Goel	Family Tree of Traits
B37	061-B20-8		Comp	M	Suhas Prasad	May the Best Line-Follower Win: Comparisons of Line-Following Algorithms for Different Types of Lines
B35	061-B30-4		Comp	M	Tejaswi Vemulapati	An Algorithm to Compute The Fractal Dimension of a Penrose Tiling
B31	062-110-11	T	Bot	M	Krisna Sam & Paolo Giovanardi	Seed Germination
B29	062-120-7	T	Bot	M	Jacob Gonzalez & Ryan Mee	Got Bananas?
B25	062-410-13	T	Soc	M	Max Rosenblum & Joseph Cudahy	Testing for Selective Attention

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B23	062-710-2	T	Chem	M	Valerian Stolpe & Aaron Bikulcius	Solar Powered Desalination: Effect of Salinity
B19	062-720-11	T	Chem	F	Amber Gilligan & Lauren Malik	Gummy Bears Go Swimming
B17	062-730-7	T	Chem	F	Sofia Rolla & Mia Kronik	Goin' Gluten-Free
B11	062-810-7	T	Phy	F	Isabel Willner & Anne Willner	The Aerodynamic Effect of Fractal Shapes on Landing Accuracy
C14	062-840-8	T	Phy	M	Ashwin Nimmal & Owen Guan & Kyle Yu	The Science Behind Tsunamis
C16	062-910-12	T	Ear	F	Lauren Heine & Kelly Heimburger	Power of the Sun
C20	062-A10-4	T	Eng	M	Dhruv Shah & Ronak Pai & Gino Prasad	Tramp-O-Charge
C24	062-A30-9	T	Eng	F	Anika Srivastava & Neha Shetty	Trapping and Using Carbon Dioxide Using an Environment Beneficial Device
C28	062-B20-5	T	Comp	M	Eisho Takatsuji & Kazuki Tayama & Jai Vishwarupe	Using Text Analysis Metrics to Determine Authorship
C30	071-110-8		Bot	M	David Hickey	Growth Height of Organic Kitty Greens with Soda and Water
C32	071-120-4		Bot	M	Jake Rhodes	Growing Up
C34	071-130-13		Bot	F	Kylie Guertin	Is eco-friendly laundry detergent really eco-friendly?
C36	071-140-9		Bot	F	Sabrina Tran	Soap's Impact On Grass Growth
C38	071-150-5		Bot	M	Callum Day Ham	CO2 in a Plants Environment
C40	071-160-1		Bot	M	Bakari Spencer	Powerful Nuts
C42	071-210-13		Env	M	Parven Chemudupati	Turning Mud into Energy
C44	071-211-11		Env	F	Nathifa Nasim	The Effect of Using Plants on Removing the Amount of CO in the Air
C46	071-220-9		Env	F	Eunha Kim	Desalination: A Solution for Today's Shortage of Clean Water. The Effect of Steam, Aquifer and Activated Charcoal Filtration on Purifying Water.
C50	071-221-7		Env	M	Shivam Singhal	Green Alternatives: Exploring a Method for the Creation of Next Generation Biofuel by the Bioconversion of Various Feedstocks
C52	071-230-5		Env	M	Kiran Rachamalla	Eutrophication: The Effect of Different Concentrations of Fertilizer on Algal Growth
C54	071-231-3		Env	F	Visala Tallavarjula	The Effect of Alviso Slough Water Quality On The Animal Population Living in the Marshes
C56	071-250-10		Env	M	Christian Chiong	Can nanowires remove mercury in contaminated water?
C58	071-251-8		Env	M	Tejas Kadambi	Erosion or Pollution? Determining the effect of Pollution and Sediments on Solar Energy in Water Bodies
C60	071-260-6		Env	F	Kaylyn Ho	Remove CO2 to Stop Global Warming
C62	071-270-2		Env	F	Sofia Kritikopoulos	Shine a Light on It! The Effect of Sunlight on Dirty Water
C64	071-280-11		Env	F	Farah Masood	Nanotechnology and Oil Spills
C66	071-290-7		Env	F	Ayah Hilali	Toxic Water?
C68	071-310-5		Zoo	F	Laura Powers	Investigating Ant Pheromone Trails
C70	071-320-1		Zoo	F	Victoria Taylor	What is the affect of temperature on food choices of Helix aspersa (Muller)?
C72	071-410-10		Soc	M	Dominic Agudelo	Do pictures affect people's ability to remember material?
C74	071-420-6		Soc	F	Rujuta Sathe	Does "Om" chanting help reduce stress, anxiety, and promote mental and physical well being?
C76	071-430-2		Soc	M	Christopher Emond	How Does the Amount of Sleep You Get Affect Your Test Grades?
C80	071-440-11		Soc	F	Ashley Cai	What judges beauty?
C84	071-450-7		Soc	F	Diya Jain	Does Color Affect Learning & Memory
C86	071-460-3		Soc	F	Indali Bora	The Effect of Ethnicity and Education Level on Household E-Waste Disposal Methods

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C88	071-470-12		Soc	F	Chloe Lechner	Is there a science to beauty?
C90	071-480-8		Soc	F	Zaria Kelley	How does your brain adapt?
C94	071-510-2		Med	F	Nava Tamjidi	Comparative Study of Different Scoliosis Brace Effects
C96	071-520-11		Med	F	Alexandra Mason	What Drink Helps Lower Blood Pressure after Exercise?
C98	071-530-7		Med	M	Rahul Vadlakonda	What is the effect of age on a person's taste?
C99	071-540-3		Med	F	Anika Bhat	How the Senses Affect Memory
C97	071-550-12		Med	F	Ruhi Sayana	Isolating MHC Class II+ Dendritic Cells: A Comparative study of DC Populations in Murine Spleen and Skin with Flow Cytometry
C95	071-560-8		Med	M	Jaydev Bhateja	What is the Effect of Relaxation Activities on Cardiac Health?
C91	071-570-4		Med	F	Ishani Narwankar	Who Dunit?
C89	071-590-9		Med	M	Arjun Prabhakar	Processed or Fresh? Finding the Right Diet for Diabetics.
C87	071-610-7		Bio	F	Rida Khan	The Effects of Ultraviolet Light on Bacteria
C85	071-611-5		Bio	M	Neeraj Senthil	Antacids to the Rescue! - Gastroesophageal Reflux Disease (GERD)
C81	071-621-1		Bio	M	Ashwin Rammohan	Hydrogels: Functions and Applications
C77	071-630-12		Bio	M	Rishi Balakrishnan	The Power of Bacteria
C75	071-631-10		Bio	M	Akash Shanmugam	Effect of Pseudomonas pudita and Bacteria on the Total Petroleum Hydrocarbons of Crude Oil
C73	071-640-8		Bio	M	Shiva Balachander	Sticky Situation: Effect of Natural Supplements on Removal of Cholesterol from Arterial Walls
C71	071-650-4		Bio	M	Bilal Malik	Honey and Spice Inhibit the Not Nice! The Antimicrobial Effects of Raw Honey, Black Seed Oil, Turmeric, Cayenne, Garlic, and Cumin on Staphylococcus epidermidis, Bacillus cereus, and Escherichia coli
C69	071-660-13		Bio	F	Isra Karampurwala	The Effect of Garlic on Bacteria
C67	071-670-9		Bio	F	Vennela Chukka	Increasing the Bacterial Susceptibility to Antibiotics by Pretreating With Natural Remedies
C65	071-690-1		Bio	M	Devin Wong	The Search For the Most Gas
C63	071-710-12		Chem	F	Nur Omar	Are Enzymes in Laundry Detergents Effective Stain Removers?
C61	071-711-10		Chem	F	Anika Sanyal	The Power of Raw Freshness. Does Cooking/Refrigeration Decrease Vitamin C in Food?
C59	071-721-6		Chem	F	Anika Cheerla	Solvatochromism: It's Not Just Black and White Anymore
C57	071-730-4		Chem	F	Maryam Awais	Are there dangerous levels of lead in everyday objects?
C55	071-731-2		Chem	F	Gowri Anupama	Equivalence Point Measurement
C53	071-740-13		Chem	F	Molly Robinson	Melting Rates: Which is Fastest?
C51	071-741-11		Chem	F	Ananya Karthik	A Greener Cleaner: Investigating a Potential Biosorbent for the Removal of Heavy Metals from Aqueous Solutions.
C47	071-751-7		Chem	M	Ali Hamade	French Fries All the Way
C45	071-760-5		Chem	M	Eli Gordon	Orange Juice PH: Is it Affected by Temperature?
C43	071-761-3		Chem	M	Siddharth Kumar	Factors Affecting Growth of Crystals
C41	071-770-1		Chem	F	Prerita Pandya	The Effect of Washing a Naturally Dyed Cloth on the Longevity of the Color
C39	071-771-12		Chem	F	Bhavya Gulati	How Safe is your Water?
C37	071-781-8		Chem	F	Olivia Baumert	Which fruits will ruin a gelatin dessert and why?

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C35	071-790-6		Chem	M	Tejes Srivastava	Renewable Green Energy - Cow Dung
C33	071-810-4		Phy	F	Audrey Cox	How many magnets does it take to light an LED light using water wave power?
C31	071-811-2		Phy	M	Tarun Amarnath	Green Energy: Investigating the Best Photovoltaic Panel for Maximum Power and Carbon Dioxide Offset.
C29	071-812-13		Phy	F	Anna Yu	How to Better Control a Tennis Ball
C27	071-813-11		Phy	F	Inna Marinova	The Effect of Different Fabrics on the Waterproof Efficiency
C25	071-814-9		Phy	M	Shone Patil	The effect of reflected sunlight on the production of electricity from solar panels.
C23	071-820-13		Phy	F	Samyukta Iyer	Effect of Ice Shape on Melting Time
C21	071-821-11		Phy	M	Brian Ma	What is the effect of size of a paper helicopter on the time spent in the air?
C19	071-822-9		Phy	M	Kaushik Shivakumar	Energy-Efficient Aircraft Landings: Factors influencing the conversion of kinetic energy of a landing airplane into useful electrical energy.
C17	071-823-7		Phy	M	Ranesh Prasad	The Effect of Multiple Magnetic Stages of Gauss Refile on the Ejected Ball's Speed
C15	071-830-9		Phy	M	Nicholas Padmanabhan	The Effect of Angle on Burn Time
C11	071-831-7		Phy	F	Aarushi Nanda	Let There Be Light
D10	071-832-5		Phy	M	Arash Shabany	Electricity Generated by a Solar Panel Exposed to Different Light Sources
D14	071-833-3		Phy	F	Rachel Ratnam	Best protection from UV light
D16	071-840-5		Phy	M	Viet Nguyen	The science of concealment: stealth technology in the visual realm
D18	071-841-3		Phy	F	Svetlana Sohoni	Solar Tracker
D20	071-842-1		Phy	M	Jeremy Sharp	The Effects of Voltage on Lasers
D22	071-843-12		Phy	M	Matthew Wong	The Effect of Varying Wing Angles on the Lift Produced
D24	071-850-1		Phy	M	James Peterson	Light Diffraction: A Study of Quantum Uncertainty
D26	071-851-12		Phy	F	Neharika Iyer	Recycling Energy
D28	071-852-10		Phy	M	Nikhil Athreya	The Effect of Temperature and Opacity on Solar Panel Efficiency
D30	071-853-8		Phy	M	John Perales Jr.	What is the effect of fruits/vegetables on electricity?
D32	071-860-10		Phy	M	Rizq Khateeb	Effect of fabrics on wicking and capillary action
D34	071-861-8		Phy	M	Varun Joshi	Center of Gravity and its Effect on Stability
D36	071-862-6		Phy	M	Brian Ng	The effect of temperature on Nitinol wire strength
D38	071-863-4		Phy	M	Jon Telebrico	Keeping It Warm
D40	071-871-4		Phy	M	Sukrit Ganesh	Electromagnetic Radiation Near Transmission Lines
D42	071-872-2		Phy	M	Neil Tipirneni	The Ultimate Power of Wind Energy
D44	071-873-13		Phy	M	Amol Singh	MAGNETS in Action with Temperature
D46	071-880-2		Phy	F	Isabella Taylor	Which Waterwheel is the Most Efficient?
D50	071-881-13		Phy	M	Krip Rai	The Sound of Music
D52	071-882-11		Phy	M	Colin Schultz	How does the temperature of a magnet affect its strength?
D54	071-883-9		Phy	M	Sean Yang	What's the Angle on Wind Turbines?
D56	071-890-11		Phy	F	Divya Tadimeti	The Effect of Golf Ball Temperature on Shot Distance
D58	071-891-9		Phy	M	Edward Ross	Balloon Acoustics II: Why Do Balloons Make a Loud Noise When They Pop?
D60	071-892-7		Phy	M	Shashank Sridhar	Ramp Project
D62	071-893-5		Phy	M	Lukas Chang	The Effect of a Metal's Resistance on the Electric Current (Measuring a Metal Wire's Resistance)
D64	071-910-9		Ear	M	Ronit Dey	Water Retention in Different Mulches

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D66	071-930-1		Ear	F	Anjali Sinha	Quake'n and Shake'n!
D68	071-950-6		Ear	M	Tyler Adkison	How A Rocket's Material Affects How Far A Paper Rocket Flies at 30 and 50 PSI
D70	071-A10-1		Eng	M	Anik Gupta	sAssist: Helps organize your student life
D72	071-A11-12		Eng	M	Siddharth Mahesh	Green Technology: Build an Electronic Rain Detector to Conserve Water
D74	071-A12-10		Eng	M	Adam Galles	Electromagnetic Control System
D76	071-A20-10		Eng	M	Rohin Tangirala	Harnessing Wasted Air
D80	071-A21-8		Eng	F	Zoe Upham	Can I Make a Reusable Candle?
D84	071-A31-4		Eng	F	Ruchi Maheshwari	PoolBot-A Pool Maintenance Robot
D86	071-A40-2		Eng	F	Nandita Naik	BrainRover: Brain Model for Visualizing Neurological Data
D88	071-A41-13		Eng	M	Sohil Pokharna	Low Cost Modular Trash to Electricity Generator
D90	071-A42-11		Eng	M	Chetan Bhateja	Application of Reinforcement Learning Techniques to Robotic Navigation
D94	071-A51-9		Eng	M	Rishab Yeddula	Radar Guided Rock Layer Surface Mapping
D96	071-A52-7		Eng	M	Shubham Banerjee	Cost Reduced Braille Printer
D98	071-A60-7		Eng	M	Dylon Tjanaka	Using Active Tilt Compensation to Improve Rollover Stability of Large Trucks
D99	071-A61-5		Eng	M	Karthik Kalyanasundaram	Charging Electric Vehicles On The Go
D97	071-A62-3		Eng	M	John Sager	Making a Pair of Easy Correction swim Goggles
D95	071-A71-1		Eng	M	Rithvik Chuppala	Comparing an all-carbon based supercapacitor with various energy storage devices
D91	071-A80-12		Eng	M	Graham Kingston	An Energy Saving Device for Battery Chargers and Power Supplies
D89	071-A81-10		Eng	M	Christopher Clark	The E-Z Lift
D87	071-A82-8		Eng	M	Ben Nguyen	Portable Lunch Warmer
D85	071-A90-8		Eng	M	Shashank Mahesh	Arduino controlled Paper Evaluation System
D81	071-A91-6		Eng	M	Ayush Gupta	Developing a Tennis Ball Tester
D77	071-B10-6		Comp	M	Deepankar Joshi	Predicting Baseball Wins
D75	071-B20-2		Comp	M	Oscar Bjorkman	Homework Management App for iPhone
D73	071-B30-11		Comp	M	Anish Muthali	The Minotaur of the Labyrinth
D71	071-B40-7		Comp	M	Rishi Sankar	Polynomial Equation Solver
D69	071-B50-3		Comp	M	Kishore Srinivas	Investigating the Best Frame Rate for Various Animation Sequences Based on Animation Type
D67	071-B60-12		Comp	M	Zade Lobo	Changing Wireless Intensity
D65	071-B70-8		Comp	M	Marc Bacvanski	The Effect of the Number of Computers on Computation Time
D63	071-B80-4		Comp	F	Trina Chatterjee	Use of Behavioral Targeting in Online Advertising
D61	072-110-5	T	Bot	F	Sanjana Borle & Siddhi Shah	The Effect of Specific Tropisms on Plant Growth
D57	072-120-1	T	Bot	F	Simran Mallik & Sarah Daoudi	Effect of Cold Temperature on Germination of Lima Beans
D55	072-130-10	T	Bot	M	Laurent Le Borgne & Nicklaus Lo	The Effect Of Spices On Bean Sprouts Germination and Flavor
D51	072-140-6	T	Bot	F	Holly Rottenborn & Sarah Tidwell	Trouble With Transpiration - The Effect of Salinity on Transpiration Rate in Plants
D47	072-210-10	T	Env	M	Luca Popescu & Seena Jovkar	The Algicidal Effects of Probiotics on Eutrophication
D43	072-220-6	T	Env	M	Rustam Gandhi & Joseph Marcacci	The Sun to our Comfort Advantage
D39	072-410-7	T	Soc	M	Evan Weissbart & Ari Myron & Jacob Ferguson	The Effect of Motivation on the Human Mind While in Physical Activity
D37	072-510-12	T	Med	F/M	Aditi Menon & Rohit Menon	Fight Heartburn Fast and Cheap
D33	072-610-4	T	Bio	M	Phillip Salowe & David Shamis	Assay of p-nitrophenyl Glucopyranoside as a surrogate marker for potential biofuels.
D29	072-620-13	T	Bio	M	Miles Bader & Jacob Kahn-Samuels & Jalen Milrad	The Effect of Multiple Mouthwash Usages Acting Against the Bacteria

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
						Forming in the Human Mouth Overnight
D27	072-630-9	T	Bio	F	Emily Zhang & Meera Balaji	The Effects of Different pH Levels on the Bacteria E. coli
D23	072-640-5	T	Bio	M	Surendra Ghentiyala & Ayden salazar	The effect of changing the place where corn is bought on the amount of corn genetically modified
D21	072-710-9	T	Chem	F	Anjali Bathula & Anoushka Dave	The Effect of Cooking and Freezing Methods on the Amount of Vitamin C in Red Bell Peppers
D17	072-730-1	T	Chem	F	Aileen Pulchny & Maureen Mailhot	Million Dollar Penny
D15	072-820-10	T	Phy	M	Nathan Au & Sam Ling	The Gauss Rifle
E10	072-830-6	T	Phy	F	Eesha Deepak & Tanvee Joshi	The Effect of Placement and Angle of Solar Cells, Angle of Sun, and Conduciveness of the Sun's Rays on Solar Panel Potency
E14	072-840-2	T	Phy	F	Elizabeth Oliveira & Sabine Yoder Schrock	What is the effect of the type of milk have in forming plastic?
E18	072-850-11	T	Phy	F	Catherine Le & Ashley Chau	Is it Getting Hot in Here
E20	072-860-7	T	Phy	F	Georgia Braun-Rudin & Rachel Homayonfar	How Color Filters affect energy production on solar panels
E24	072-A10-11	T	Eng	F	Asha Kar & Jennifer Nguyen & Amanda Wang	Easy Medi
E28	072-A20-7	T	Eng	M	Avinash Subramanian & Joseph Chung	Robotic Third Hand
E30	072-A30-3	T	Eng	M	Logan Lyons & Zachary Silveira	COMFORT ZONE
E34	072-A50-8	T	Eng	F	Gurmeher Kaur & Nisha McNealis	Spoiler Alert
E36	072-A70-13	T	Eng	F	Claire Dong & Unnati Singh	The Effect of the Blade Shape on the Efficiency of the Wind Turbine
E38	081-110-2		Bot	F	Yashvi Deokule	Phytoremediation of Zinc and Copper on an Aquatic Environment
E40	081-120-11		Bot	F	Brianna Pember	Which Fertilizer?
E42	081-130-7		Bot	F	Sarah Graton	Plants Under Color
E44	081-140-3		Bot	F	Allison Yih	Effect of light on Vitamin C content in green vegetables
E46	081-210-7		Env	F	Athiyya Umar	What is the effect of soil on the pH of water?
E50	081-220-3		Env	M	Rishabh Bhat	What is the optimum tilt of solar panels
E52	081-230-12		Env	M	Sahil Surapaneni	Does the increase in CO2 levels in very short timeframe (industrialization) cause faster global warming?
E54	081-231-10		Env	F	Deena Umeda	Is there lead in different levels of soil?
E56	081-250-4		Env	F	Ryan Lyle	The Effects Of Overpopulation
E58	081-260-13		Env	M	Advait Patil	Saline Hydrocarbon Bioremediation: Analyzing the hydrocarbon bioremediating properties of the gram-positive bacterium Bacillus subtilis in response to varying salinity levels
E60	081-280-5		Env	F	Afrah Siddiqi	Bio-friendly Alternative for Disposing Polystyrene
E62	081-290-1		Env	F	Eva Szoboszlay	Macroinvertebrates in Local Stream Habitats
E64	081-310-12		Zoo	F	Sumati Wadhwa	Behavioral Patterns in Frogs in Complex and Simple Environments
E66	081-410-4		Soc	M	Advith Gopinath	Does Rap Have a Bad Rep? A Study on How Rap Music Affects Aggression
E68	081-420-13		Soc	F	Marie-Therese Chahroui	What is the effect of the responses from the test subjects on Piaget and Kohlberg's theories?
E70	081-421-11		Soc	M	Anand Subramanyan	From "Psycho" to "Pink Panther" to "Pacific Rim" - An Investigation of Human Emotional Response to Instrumental Music
E72	081-430-9		Soc	F	Mythili Bhethanabotla	What factors influence your pain threshold and tolerance ?
E74	081-431-7		Soc	F	Maya Singh	Innocent Until Proven Guilty

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
E76	081-440-5		Soc	F	Sophia Pawlowicz	Comparison of Visual and Audio Memory in Middle School Aged Students
E80	081-450-1		Soc	F	Ujjaini Mukhopadhyay	Note-taking: Necessary or Nuisance?
E84	081-460-10		Soc	F	Sahana Sarin	Attention Everyone
E86	081-470-6		Soc	F	Chloe Tanlimco	Does Gender Affect the type of Information One Remembers
E88	081-480-2		Soc	F	Ashmita Rajkumar	How does Music affect the way kids behave: Autistic vs. Neurotypical
E90	081-490-11		Soc	M	Markus Wong	Do Children React Differently According to the Framing Effect?
E94	081-510-9		Med	M	Solomon Joseph	Guardian Angel
E96	081-540-10		Med	M	Raziuddin Mahmood	Detecting Dilated Cardiomyopathy in Cardiac Echo Video Images
E98	081-550-6		Med	F	Jagruti Kolla	The Affects of Aspartame and Sucralose on Caenorhabditis Elegans
E99	081-610-1		Bio	M	Cameron Baab	The Effects of Various Extraction Methods of the Antioxidant Epigallocatechin Galleate (EGCG) from Green Tea Leaves on Fatty Acid Production in the Alga Nannochloropsis Salina.
E97	081-611-12		Bio	F	Isha Mehrotra	Using UV Radiation to Disinfect Contaminated Water
E95	081-620-10		Bio	F	Sonali Patel	Will temperature affect the way lipids are digested?
E91	081-630-6		Bio	F	Anooshree Sengupta	Effect of Nanoparticles on E. Coli
E89	081-631-4		Bio	M	Haashir Alikhan	What is the Effect of Different Light Sources on Yeast Colonies?
E87	081-640-2		Bio	M	Rajiv Movva	Preventing Excessive Blood Sugar Levels in Type 2 Diabetes Patients: An in vitro Inhibition Mechanism of Alpha-Amylase with Flavonoids
E85	081-641-13		Bio	F	Umelbanin Alofi	no more bacteria
E81	081-651-9		Bio	F	Mythri Ambatipudi	Breaking the AGE barrier!!! Inhibiting the Formation of Advanced Glycation End-products (AGEs) to Combat Atherosclerosis, Cancer, and Diabetic Complications
E77	081-660-7		Bio	F	Priscilla Lee	Penicillium Unveiled
E75	081-670-3		Bio	F	Divya Empranthiri	All that Glitters is Not Golden: Oligodynamic Action on Sacharomyces cervisae
E73	081-671-1		Bio	M	Eric Hooton	The Use of Multiplex PCR to Test for GMO Pollination of Non-GMO Papaya Samples
E71	081-680-12		Bio	F	Anna Bassias	The effect of different chemically-made sugar substitutes as dietary additives on the lifespan of C. elegans
E69	081-681-10		Bio	M	Amith Galivanche	Antimicrobial Activity Of Clove Oil, Cinnamon Oil, And Basil Oil Against Staphylococcus Epidermidis In Comparison To Tetracycline
E67	081-690-8		Bio	M	Rishabh Rajesh	Effect of Different Vegetable Oils on the Characteristics of Biodiesel
E65	081-691-6		Bio	F	Chandni Patel	What Fruits Can Ruin Your Gelatin Dessert?
E63	081-710-6		Chem	M	Alexander Vu	Splitting Sugar: A Study of the Effect of pH on the Rate of Hydrolysis of Sucrose
E61	081-711-4		Chem	M	Adhitya Venkatraman	Determine the percentage of oxygen in atomosphere
E59	081-712-2		Chem	F	Mary-Elizabeth Vogel	Illuminating Luminol
E57	081-720-2		Chem	M	John Ghantous	The effect of different liquid acid concentrations, and different anode materials in a water-based salt battery, and the efficiency of the anode material.
E55	081-721-13		Chem	M	Rishabh Jain	Starch Your Engines - The Effect of the Type of Starch on Potential Ethanol Yield
E53	081-731-9		Chem	F	Avni Madhani	Lye or Lime? Examining the Effect of Sodium Hydroxide and Calcium Hydroxide on the Pretreatment of Corn Husks in Ethanol Production
E51	081-740-7		Chem	F	Traci Shiu	Do Different Solutes Added Into Water Affect the Rate of Evaporation?

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
E47	081-741-5	Chem	F		Ushana Vivek	Electrolyte Challenge: Which Has the Most?
E45	081-750-3	Chem	M		Rohan Koodli	Effect of Electrolytes on the Performance of Graphene Supercapacitors
E43	081-751-1	Chem	M		Sean Lin	Lead in YOUR Water?
E41	081-760-12	Chem	M		Vincent Hwang	Fuel Cells
E39	081-761-10	Chem	M		Arturo Gamboa-Gonzalez	Temperature and pH Effect on the Decomposition of Hydrogen Peroxide by Catalase in Yeast
E37	081-771-6	Chem	M		Steven Howley	Burning Nuts to Count Calories
E35	081-780-4	Chem	F		Jenny Nguyen	The Juicy Truth
E33	081-781-2	Chem	M		Alexander Villegas	Dye Sensitized Solar Cell Development with Food
E31	081-790-13	Chem	F		Megan Bruning	Cold Pack Chemistry
E29	081-810-11	Phy	M		Nikhil Mandava	What are the effects of the configurations of gears on the angular velocity of wheels?
E27	081-811-9	Phy	M		Ronak Mundkur	Surfing on Nano-Magnets
E25	081-813-5	Phy	F		Neelima Valluru	Gauss Rifles and Kinetic Energy
E23	081-820-7	Phy	M		Jake Blozan	What is the effect of the number of magnet stages on the distance traveled by a Gauss Rifle-powered train?
E21	081-821-5	Phy	M		John Kim	Effect of room acoustics on the quality perception of partially muted speech
E19	081-823-1	Phy	F		Kiran Jain	The Effect of Air Pressure on a Soccer Ball
E17	081-830-3	Phy	F		Holly Jackson	Sewing Science
E15	081-831-1	Phy	M		Nabeel Sabzwari	Bernoulli's Principle
E11	081-832-12	Phy	M		Omar Battisha	Sound Insulation
F10	081-833-10	Phy	M		Aditesh Kumar	Efficient Wing Design
F14	081-840-12	Phy	M		Kyle Wang	The Usage of Graphene to Detect Pollen
F16	081-841-10	Phy	F		Hannah Patrignani	What is Warmer? Chiengora, cotton, wool or paper?
F18	081-843-6	Phy	M		Sean Coakley	Water, Color and Heat
F20	081-850-8	Phy	M		Michael Masri	Effects of Aircraft Engine Placement
F22	081-851-6	Phy	F		Nikita Goyal	Effect of Spectral Window Length on the Accuracy of Decoding Music Notes
F24	081-853-2	Phy	M		Peter Barnes	The Pendulum Science Project
F26	081-861-2	Phy	F		Dipashreya Sur	The Effect of Heat on the Frequency of Sound Waves
F28	081-862-13	Phy	M		Hamza Qadeer	The Effect of Increasing the Temperature of Both Ends of a Stirling Engine by an Equal Amount on the Efficiency of the Engine
F30	081-863-11	Phy	M		Mantej Panesar	An Investigation of Harnessing Solar Energy to Efficiently Desalinate Water
F32	081-871-11	Phy	F		Labanya Mukhopadhyay	Study of Light Interference Patterns through Apertures of Different Shapes and Colors of Light
F34	081-872-9	Phy	M		Aidan Slusser	Thermal Conductivity
F36	081-873-7	Phy	F		Kirsten Schurk	The Color of Fabric and its Affect on Thermal Energy
F38	081-880-9	Phy	M		Justin Callahan	Beta Testing
F40	081-881-7	Phy	M		Joshua Yu	How do Different Materials Blocking Light Affect the Energy Output of a Solar Panel?
F42	081-882-5	Phy	M		Sathvik Koneru	Modeling the tension placed on the quadriceps at different squatting angles
F44	081-883-3	Phy	M		Sushant Thyagaraj	The Compatibility of A Cell Phone Spectrophotometer with Beer-Lambert Law
F46	081-890-5	Phy	F		Vivian Chiang	Soundboards Sound Bored?
F50	081-891-3	Phy	F		Nadia Rabia	Generating Electricity Using Waves

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
F52	081-892-1		Phy	F	Tithi Mandal	Speed Thrills! But ..
F54	081-893-12		Phy	M	Angelo Malicse	Are Crossbows More Effective than Catapults in Launching Projectiles?
F56	081-910-3		Ear	M	Nathaniel Wire	Locating and Determining the Activity Level of Faults using Electroilluric Currents and Variations in the Earth's Magnetic Field
F58	081-920-12		Ear	F	AliciaGrace Marley	The Effect of the Full Moon and Light Pollution on Night Sky Brightness
F60	081-930-8		Ear	M	Srikanth Pillai	Meteorite Mass and Their Effect on Impact Force and Crater Size
F62	081-A10-8		Eng	M	Sashwath Sundher	Using a Thermocouple to Harvest Heat Leak on a Computer
F64	081-A11-6		Eng	M	Alan Love	Molding Metal
F66	081-A12-4		Eng	M	Bryan Cuevas	Shock Absorbers In A Bicycle
F68	081-A20-4		Eng	M	Arudrra Krishnan	Tennis Ball Bot
F70	081-A21-2		Eng	M	Philip Axelrod	Electro-fertilization devise targeting specific plant areas
F72	081-A22-13		Eng	M	Quang-Long Tran	Freedom Robot
F74	081-A30-13		Eng	M	Keshav Sangam	Automatic Docking and Charging Station for Electric Cars
F76	081-A40-9		Eng	M	Manpreet Dhariwal	RC Silence
F80	081-A41-7		Eng	F	Charlotte Thompson	Shaved Ice Syrup Distributor
F84	081-A42-5		Eng	M	William Portman	Harnessing the sun with Arduino
F86	081-A50-5		Eng	M	Mark Shacker	Silent Seeker
F88	081-A51-3		Eng	F	Aratrika Ghatak	Are You Driving too Fast on a Curved Road?
F90	081-A52-1		Eng	M	Aayush Gupta	Shadow Bot Follower Bot
F94	081-A60-1		Eng	F	Shaya Zarkesh	A Novel Approach to Generating Electricity from Human Movement through Walking Shoes
F96	081-A61-12		Eng	M	Ryan Winter	The Filter Chill
F98	081-A62-10		Eng	F	Andrea Beninghaus	A Helping Hand
F99	081-A71-8		Eng	F	Oran Dror	Simulation of a Methane combustion system from Animal Waste
F97	081-A80-6		Eng	F	Labonita Ghose	Amplifying Device used to Extricate Oneself from a Life Threatening Situation (Uhelp)
F95	081-A81-4		Eng	M	Utkarsh Tandon	A Wearable Device for Spinal-Lumbus-Modeling to Recognize and Correct Posture through Real-Time Analysis and Flex Sensing Capabilites
F91	081-A82-2		Eng	F	Tania Pham	Can Sound Waves be Converted into Electrical Signals?
F89	081-A90-2		Eng	F	Sasha Jaffarove	Cave Mapper
F87	081-A91-13		Eng	M	Maanik Singh	Body Heat Cell Phone Charging Device
F85	081-B10-13		Comp	F	Ana Julian	Does the area of the equilateral triangle affect the area of the sequence of spidron triangles that follow it?
F81	081-B20-9		Comp	M	Karthik Ramachandran	Tag Your Meds: Reduce Accidental Drug Overdose Using NFC Tags
F77	081-B30-5		Comp	M	Shadaj Laddad	Influencing Outcomes of Activities through Analysis of Brainwaves
F75	081-B40-1		Comp	F	Anushka Jogalekar	Computer Assisted Color Recognition Aid for the Colorblind
F73	081-B50-10		Comp	M	Gautam Mittal	Encryption Algorithms: Speed Versus Strength
F71	081-C10-5		Bioinfo	M	Rajiv Nelakanti	An evolutionary study of hydrogenosomes and mitochondria: comparing 18S rRNA sequences of eukaryotic organisms
F69	081-C20-1		Bioinfo	M	Abhinav Naikawadi	Nucleotide and Amino Acid Sequence Variations among Different Influenza Virus Strains of the Haemagglutinin Protein of the Pandemic Influenza H1N1

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
						Virus
F65	082-130-4	T Bot	M	Adrian Chu & Randy Zhao	A Comprehensive Study of the Efficacy of the Most Popular Methods of Applying Mycorrhizae on Brasica Rapa	
F63	082-140-13	T Bot	F	Anastasiya Grebin & Stephanie Swanson	The Effects of Calcium Sulfate on Spore Formation in the Mucor Genus of the Fungi Kingdom	
F59	082-210-4	T Env	F	Abigail McCarthy & Catherine Petersen	DapHnia	
F57	082-230-9	T Env	M	Rahul Bhethanabotla & Derek Yen	An Analysis on the Effects of Soil types and Fertilizer(s) on Plant Growth	
F53	082-240-5	T Env	F	Ananya Krishnan & Tanvi Singh	It's a Smoky World After All	
F51	082-250-1	T Env	F	Sohini Kar & Aadi Ghildiyal	Effects of Environmental Factors on Absorption Rates of Polymers	
F45	082-260-10	T Env	F	Stephanie Castaneda & Julisa Pacheco & Yeny Lopez	The Best Soil Battery	
F41	082-310-9	T Zoo	M	Michael Kwan & Praveen Batra	What is the effect of farnesol on ant dispersion across a flat surface?	
F39	082-410-1	T Soc	F	Sahana Srinivasan & Amy Dunphy	How Preconceptions of a Test Affect the Results for Boys and Girls	
F35	082-421-8	T Soc	M	Jiyuan Zhu & Isiah Tulio	Does Gender Affect How Fast Middle School Students Read with Accuracy?"	
F33	082-430-6	T Soc	M	Rohan Mathur & Linus Li	Auditory and Visual Stimuli and Their Effects on Brain Processing Speed	
F29	082-431-4	T Soc	F	Ellen Dong & Catherine Xu	Concentration Music	
F25	082-440-2	T Soc	F	Huong Nguyen & Maleisia Caguiat & Alethea Lucas	Do male and female humans determine emotions differently when analyzing facial expressions?	
F23	082-441-13	T Soc	F	Anika Banga & Millie Lin	How does the genre of a movie affect how much food is bought at a movie theater? Can movie theaters estimate how much food to make based on what movies will be shown on a given day in order to prevent food wastage?	
F19	082-450-11	T Soc	F/M	Vivian Vuong & Andy Ngo & Julie Bach	Are You Scared Yet?	
F15	082-460-7	T Soc	F	Cassandra Korb & Hannah Engel	Dumb, Dumb, Give Me Gum, Gum	
G10	082-470-3	T Soc	F	Maerisa Lazo & Lavon Nguyen & Cindy Huang	Ready, Text, CRASH! (Ready, Set, Go - Whoops)	
G14	082-480-12	T Soc	F	Sabrina Rakhmilevich & Noa Branitzky	All Eyes on You	
G18	082-490-8	T Soc	F	Naama Gotesdyner & Molly Peck & Dalia Tabibian	If Eyes Could Tell	
G22	082-510-6	T Med	F	Amy Jin & Karena Kong	Effects of Foods with Various Nutritional Values on C. Elegans	
G24	082-520-2	T Med	M	Neil Patel & Neeraj Aggarwal	Resveratrol effect on C. elegans	
G28	082-530-11	T Med	F	Meghana Karinithi & Sohene Banerjee	The Comparison of How a Probiotic and a Pathogenic Bacteria React to Different Antibiotics	
G30	082-540-7	T Med	M	Jerry Chen & Jimmy Lin	Comparing the Levels of UVA and UVB Radiation Blocked by Different SPF Sunscreens Under Varying Conditions	
G34	082-610-11	T Bio	M	Andrew Semenza & Edgar Lin	Biochemical Decomposition of Polymers (PET & HDPE) from Microbes in Polluted Soil	
G36	082-630-3	T Bio	M	Derek Kuo & Jeffrey Ma	Effects of Ion Exchange Membrane Acidity or Alkalinity on the Production of H+ Ions in Aerobic Respiration	
G40	082-640-12	T Bio	F	Mona Lee & Maya Kumar	What is the effect of real and artificial sugars on E. Coli growth in the gastrointestinal tract?	
G42	082-650-8	T Bio	M	Akhil Arun & Rishi Iyer	The Effect of Caffeine at Different Concentrations on the Motor Behavior in C. elegans	
G46	082-710-3	T Chem	F	Priya Chaganti & Meena Gudapati	Arsenic Content in Organic and Inorganically Grown Brown Rice	
G50	082-730-8	T Chem	M	Shaan Gagneja & Sahil Kapur	Efficiency of Fuels	

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
G54	082-740-4	T	Chem	F	Maria Morris & Emily Hansen	Burning Calories: Energy In Food
G56	082-750-13	T	Chem	F	Sarah Nguyen & Fennie Huynh	Something Smells Fishy!
G60	082-760-9	T	Chem	F	Noga Hurwitz & Carmel Baharav	What Makes an Effective Sports Drink?
G64	082-770-5	T	Chem	F/M	Narely Del Villar & Jacob Estillore & Simranjot Hunjan	Making Butter
G68	082-780-1	T	Chem	F	Brisa Rojas & Hanh-Cat Nguyen & Thao Vo	Power Puff Potatoes
G72	082-790-10	T	Chem	F	Jasmine Nguyen & Damica Ho & Jessica Ho	Fizzing Alka-Seltzer
G74	082-810-8	T	Phy	F	Kristy Lee & Annie Chen	Salt Concentration and Freezing Rates
G80	082-820-4	T	Phy	F	Brooke Alviar & Vy Truong	What Is The Correlation Between An Object's Mass And Its Centripetal Force?
G86	082-830-13	T	Phy	F/M	Tian Chen & Ore Ziskind & Anna Tsai	The Thermodynamic freezing paradox of The Mpemba Effect
G90	082-850-5	T	Phy	F	Daisy Rodriguez & Lisette Ruano & Jocelyn Ramirez	Heat Retention
G94	082-860-1	T	Phy	M	Jacob Biggs & Joshua Biggs	Baseball Freeze
G98	082-870-10	T	Phy	F	Louisa Mantilla & Hannah Grant	What is the effect or temperature on conductivity?
G97	082-A10-5	T	Eng	F	Nimreta Singh & Andrea Lam & Lisa Chau	WipeBoard
G91	082-A11-3	T	Eng	F/M	Katherine Hubeny & Jonathan Lin & Kelly Lue	Creating Energy Using Ocean Waves
G89	082-A30-10	T	Eng	M	Ethan Junus & Benny Lau	Smart med box
G85	082-A31-8	T	Eng	F	Deeksha Manjunath & Payal Lariya & Divija Bhimaraju	Syringe Operated Hydraulic Arm
G77	082-A40-6	T	Eng	M	Raghav Kapoor & Justin Pang	Fuel Cells-Fueling the Future
G75	082-A50-2	T	Eng	M	Cameron Pham & Timothy Tu	Solar-Power Visor
G71	082-A60-11	T	Eng	F	Julia Nguyen & Amy Luu & Mai Nguyen	Desalination Time!From Saltwater to Freshwater.
G67	082-A70-7	T	Eng	M	Rohan Dhesikan & Vineet Mudupalli	Constructing a Consumer-Friendly Wind Turbine for Developing Countries
G63	082-A90-12	T	Eng	M	Lakhan Singh & Safwan Kazmi & Nathan Loi	Creating a Stronger Bridge
G61	082-B20-6	T	Comp	M	Paarth Sharma & Jon Semba	How Does Age Affect Performance in Baseball?
J99	091-110-9		Bot	F	Aditi Jain	Can the Laccase Enzyme Released from Botrytis cinerea (Noble Rot) During Wine Fermentation Treat Candida Yeast Infections?
J97	091-120-5		Bot	M	John Um	Testing to See If Propionibacterium Freudereichii Is a Viable Option to Help Plants Grow.
J95	091-130-1		Bot	F	Marilyn Kung	The Effects of Stanleya pinnata on Reducing the Amount of Selenium Discharges in the Permanente Creek
J93	091-140-10		Bot	F	Harshini Gorijala	The effect of varied heat on alfalfa sprout's ability to adjust to its environment.
J91	091-150-6		Bot	F	Asritha Tubati	Alike DNA
J89	091-160-2		Bot	F	Karen Giang	Potato Osmosis Dehydration
J87	091-211-12		Env	F	Shivani Bhandarkar	The Effect of Sulfur during Temperature Rise on the Reproduction Rate of C. Elegans
J85	091-220-10		Env	M	Simon Maranguis	Do earthworms affect the level of nitrates and phosphates in fertilized soil?
J83	091-221-8		Env	M	Neilay Shahi	The effect of substances on the productivity of electricity in a microbial fuel cell
J81	091-230-6		Env	F	Basmah Altimimi	What method best absorbes crude oil?
J79	091-231-4		Env	M	Mihir Pandya	Maximizing the Efficiency of Photovoltaic Cells Using Solar Tracking Systems
J77	091-240-2		Env	F	Catherine Yi	Purification of Water Containing PCB (Polychlorinated Biphenyl) Through Processes of Phytoremediation in Plants
J73	091-250-11		Env	F	Rhea Rangarajan	Ocean Acidification: The Effect of Carbonate on Mussel Shells
J71	091-260-7		Env	F	Dhanya Mahesh	The Effect of Charcoal Filtering on Chemical Composition of Water

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
J69	091-270-3		Env	F	Shriya Perati	The Effect of Pesticides and Herbicides on Nitrogen Fixing Bacteria Isolated from Legumes and Soil
J63	091-280-12		Env	M	Steven Cao	The Effect of Aluminum Sulfate on Orthophosphate Levels in Water and Its Viability as a Solution to Northern Mexican Gulf Hypoxia
J61	091-310-6		Zoo	F	Athena Hodges	What is the effect of having both substances ants like and substances when trying to keep ants out of one's home?
J59	091-410-11		Soc	F	Vamsita Venna	The Effect of Fancy Fonts on Memory through Event Boundaries
J55	091-420-7		Soc	F	Anusha Agarwal	The Effects of Temperature on Somatic Pain
J53	091-440-12		Soc	F	Rasika Venkatesh	Does the Complexity of a Placebo Influence its Effect Through Memory Tests
J49	091-460-4		Soc	F	Selena Huang	Effect of Music on Students' Focus
J47	091-510-3		Med	M	Venkat Sankar	A Crystal Ball for Drug Efficacy: Predicting Drug Resistance with HIV Non-Nucleoside Reverse Transcriptase Inhibitors
J43	091-520-12		Med	F	Grace Bernal	The Effect of Fluoride on Chlorhexidine Glutamate as a Bactericide for Streptococcus mutans
J41	091-530-8		Med	F	Marilyn Zhang	The Effect of the Number of Caenorhabditis elegans per Living Space on the Neurogenesis and Brain Activity of C. elegans
J39	091-540-4		Med	F	Maya Kalbag	Effects of Vitamin C Supplements on the Total Antioxidant Activity of Human Tears.
J33	091-610-8		Bio	F	Javeria Ali	What is the affect of air on milk (whole,2%,and skim) with, and without lemon juice.
J31	091-612-4		Bio	F	Olivia Kufeldt	Kinky, Curly Keratin
J29	091-620-4		Bio	F	Zahra Masood	Nicotine and Cancer
J27	091-621-2		Bio	M	Srikar Mallipedi	The effect of exposing a model organism for studying cancer, yeast, to different internal and external conditions.
J25	091-630-13		Bio	F	Auboni Poddar	Stathmin Association with PTSD through Effect of Stress In Zea Mays Protein Concentration
J23	091-631-11		Bio	M	Nathan Chen	Effect of 5-Hydroxyindoleacetic Acid on Saccharomyces cerevisiae
J19	091-640-9		Bio	F	Vivian Hu	The Effect of an Epinephrine Introduction on Cockroach Fat Body Lipolysis
J17	091-641-7		Bio	M	Brian Jeong	The Elimination of Athlete's Foot with Termite Feces
J15	091-650-5		Bio	F	Nadine Aderhold	The Effect of Temperature and Humidity on the Tensile Strength of Synthetic Spider Silk Grown From E. Coli
J13	091-651-3		Bio	F	Sana Aladin	Comparing the Minimum Inhibitory Concentration of Eucalyptus globulus and Melaleuca alternifolia Oils on Propionibacterium acnes
J11	091-660-1		Bio	M	Abishak Govindarajan	Creating Green Energy from Paper Towels through Microbial Fuel Cells
K10	091-661-12		Bio	F	Michelle Xu	Bring Antibiotics Back to Life? Synergistic Effect of Natural Herbs with Ampicillin against Resistant E. Coli
K12	091-670-10		Bio	F	Priyanka Chilukuri	The Transmission of Human/Animal Pathogens by Plants
K14	091-671-8		Bio	M	Gokul Kalyanasundaram	E. Diabli: A Synthetic Biological Approach For Tackling Type 2 Diabetes
K16	091-680-6		Bio	F	Sammi Cheung	Natural Essences and Mouth Microbes
K18	091-681-4		Bio	F	Arthi Iyer	The effects of polyethylene plastic microspheres on the mortality rates of daphnia
K22	091-690-2		Bio	F	Shreya Neogi	Effects of Natural and Chemical Preservatives on Bacteria Growth in Raw Meat
K24	091-691-13		Bio	F	Sruthi Ramabadran	Effects of Curcumin on Commensal and Pathogenic Intestinal Bacteria Associated with Crohn's Disease

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
K26	091-710-13		Chem	F	Hibah Wasim	Optimizing Ethanol's Heat Production
K28	091-720-9		Chem	F	Hilal Atesoglu	A Potential of Biosorbent Derived from Sesame Leaves for Removal of Toxic Mercury(Hg): Investigating the Effects of Contact Time, Particle Size and Constant Temperature on Removal Rate of Mercury, Phase II
K30	091-740-1		Chem	F	Soumya Siravara	Determination of Residual Effect of Silver Nanoparticles on Food
K32	091-750-10		Chem	M	Robert Qiu	The Effect of Light Frequency in Detecting Water-Soluble Vitamins Dissolved in Water
K38	091-760-6		Chem	M	Matthew Hase-Liu	The Effectiveness of the Natural Polymers Chitosan and Polyglutamic Acid in Water Purification
K40	091-770-2		Chem	F	Jessie Zhao	A Study on the Effect of Capsaicin on the Ignition Temperature and Heat of Combustion of a Fuel
K42	091-780-11		Chem	M	Vardhaan Ambati	Testing the Effectiveness of Pectin as a Detoxifier of Heavy Metals: A Novel Approach Using Denaturation of Proteins and Arduino Based Colorimeter
K46	091-790-7		Chem	M	Anish Seshadri	Increasing efficiency of dye sensitized solar cells using Nanocrystalline Gold and Silver
K48	091-810-5		Phy	F	Pardis Bidokhti	What is the best material to use to block out noise?
K52	091-910-10		Ear	M	Manan Shah	A Study of the Effect of Solar Flares on the Magnetosphere of the Sun and the Propagation of Pressure Waves
K54	091-A10-2		Eng	F	Elizabeth Wang	A Novel, Bio-inspired Soft Robot For Disaster Relief Via Raspberry Pi Command System and Cutting Edge Movement Mechanism
K58	091-A11-13		Eng	M	Raymond Yang	Using induction to power cars.
K60	091-A12-11		Eng	M	Anish Krishnan	Regenerative Acceleration Generator Technology to Extend the Mileage of Alternative fuel Vehicles
K62	091-A20-11		Eng	F	Laura Cao	Reducing the Amount of Electricity Leakage from Off Electronics
K68	091-A21-9		Eng	M	Bryon Tjanaka	Re-engineering the Flashlight for REAL (Reliability, Eco-friendliness, Affordability, and Longevity)
K72	091-A22-7		Eng	M	Rehan Durrani	EmoRobo 4
K74	091-A30-7		Eng	M	Samy Cherfaoui	Effectively using thermoelectric generators to charge phones
K76	091-A31-5		Eng	F	Yinan Su	Recreating the Bioluminescent Chemical Reaction
K78	091-A32-3		Eng	M	Pratik Gongloor	An EEG Controlled Hand Grip Augmentation Exoskeleton for the Physically Impaired
K80	091-A40-3		Eng	F	Sophie Wen	Simulation of Super High Capacity Data Modulation Using Directly Modulated Semiconductor Lasers
K82	091-A41-1		Eng	F	Nomita Chandra	Robotic Wing
K84	091-A42-12		Eng	M	Rishi Desai	Using Gestures to Control a Computer
K86	091-A50-12		Eng	F	Arushi Rai	Withstanding Shock in Artificial Discs
K88	091-A51-10		Eng	F	Trishla Pokharna	Low-Cost Innovative Incubator using TEC Technology
K90	091-A52-8		Eng	M	Toure' Oliver	The Need for Speed
K92	091-A60-8		Eng	F	Taraneh Sadjadpour	SMURFE (Smart Medicine Usage Reminder For Everyone)
K94	091-A61-6		Eng	M	Kevin Cao	2 DOF Motion Platform
K96	091-A70-4		Eng	M	Kush Shanker	Intelligent Power Sensing And Measurement Device for Residential Applications
K98	091-A71-2		Eng	M	Nagaganesh Jaladanki	Leap off the Screen: A Novel Approach for 3D Mouses

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
K99	091-A80-13		Eng	F	Pragna Upputuri	The Application of Optical Lift on Micromotors
K97	091-A81-11		Eng	M	Michael Wang	Wearable Speaker
K95	091-A90-9		Eng	M	Andrew Park	Designing a spill-proof and more efficient coffee lid that has the same purpose of present coffee lids.
K93	091-A91-7		Eng	F	Amulya Vadlakonda	A Smart Fuzzy Logic Based Gripping Prosthetic to Aid Hand Amputees in Handling Delicate Objects.
K91	091-B10-7		Comp	M	Shuheng Niu	Removing Topic-Specific Words to Improve Accuracy of Authorship Attribution
K89	091-B11-5		Comp	M	Rahul Mohan	A Novel Method to detect and track the progression of Parkinson's disease using smartphone data
K87	091-B20-3		Comp	M	Ganesh Valliappan	An Enhanced Search for School and School-Related Websites
K85	091-B21-1		Comp	F	Nidhi Jain	Secured Chatting: A Development and Analysis of Encryption Methods
K83	091-B30-12		Comp	M	Gajan Nagaraj	An Automated Multimedia Assessment Aid to Estimate Overall Health Using Blue Button Data
K81	091-B31-10		Comp	M	Mayank Pandey	Semi-supervised Learning for Image Recognition
K79	091-B40-8		Comp	F	Josephine Koe	Generating the Infinite List of Prime Numbers
K77	091-B50-4		Comp	M	Alexander Xu	Applying Datamined Information to Produce an Accurate Prediction on the Monetary Grossings of a Film
K73	091-B60-13		Comp	M	Arsh Malhotra	TurboCDN: A Scalable Multipath Peer-to-Peer Web Content Delivery Algorithm Using a Distributed Mesh Network in the Browser
K71	091-B80-5		Comp	M	Nilay Sawant	Statistical Model of Predicting the Outcome of a Basketball Game
K69	091-B90-1		Comp	M	Pravin Ravishanker	Genetics or Gender: Assessing the impact of APOE-e4 and Gender in age-specific cognitive and structural rates of decline in Alzheimer's disease
K63	091-C10-12		Bioinfo	M	Nikhil Cheerla	Accurate Detection of Skin Cancer Using Multi-Stage Neural Networks
K61	091-C20-8		Bioinfo	F	Tanisha Joshi	Quantitative analysis of macro-cellular biomarkers in early stage Ductal Carcinoma in situ (DCIS) immuno-histochemical cytopathology images using machine learning.
K59	091-C40-13		Bioinfo	M	Rishab Gargeya	A software based approach for automated pathology diagnosis of diabetic retinopathy in the human retina
K53	092-120-2	T	Bot	F	Joyce Huang & Neymika Jain	The Effect of Chemosensitization on the Efficacy of Antifungal Agents
K49	092-130-11	T	Bot	F	Sameeha Shafik & Rabia Mohiuddin	What is the Effect of Pea Pods on the growth of plants?
K43	092-210-11	T	Env	F	Anika Jain & Anuva Mittal	The Effect of Insulin and Thyroxine on the Greater Growth of a Wisconsin FastPlant's root, leaf, and overall growth
K41	092-230-3	T	Env	F	Varsha Swamy & Sanika Mahajan	What is the Effect of Exposure to Different Concentrations of Sediment from Various Locations on Daphnia Magna, and what is the LC50 of these Sediments?
K33	092-240-12	T	Env	F/M	Stanley Nguyen & Joseph Servin & Jasmine Gomez	Collecting CO2
K29	092-310-3	T	Zoo	M	Anthony Erickson & Greg Tirri	Pore eggs!!!!
K27	092-410-8	T	Soc	M	Shaunak Modak & William Scott	Does knowledge of the amount of time allowed influence the ability to perform a task?
K23	092-610-5	T	Bio	F	Aamna Haq & Danya Abdulrahman & Sara Suboh	Can E. coli bacteria survive in extreme temperatures?
K17	092-620-1	T	Bio	M	Avi Khemani & Alexander Lam	The Effect of Cinnamon, Turmeric, Oregano, Saffron, and Clove on the

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
						Viability of Mouth Bacteria
K15	092-630-10	T Bio	F	Kshithija Mulam & Alayna Richmond	The Effect on C. Elegans After the Consumption of E. Coli Bacteria Infected By Tributyltin Oxide	
K11	092-640-6	T Bio	M	Nisarg Shah & Harsh Jain	Determining whether CRISPR system type II can be accepted as a synthetic immune system in Lactobacillus Plantarum WCFS1 by measuring its ability to eradicate the genome of the bacteriophage ATCC-8014 B1 from its cells.	
L10	092-650-2	T Bio	M	Varun Venkatesh & Pranav Lalgudi	A Novel Study on the Expression of Recombinant Polyphenolic Adhesive Protein Mefp-5 Secreted by the Mollusk Mytilus edulis in Escherichia coli	
L14	092-660-11	T Bio	M	Brent Han & Cory Pan	What is the Effect of Various Electrolytes on Algal Water Uptake?	
L16	092-670-7	T Bio	F	Eileen Mao & Chelsea Pan	The Effects of Various Concentrations of Potassium Nitrate, Gluten, Sodium, Ethanol, Melatonin, P. quinquifolius and C. sinensis on the Heart Rate of Daphnia Pulex	
L22	092-710-10	T Chem	F	Jessica Epler & Nikki Nguyen	What is the effect of water salinity on the amount of carbon dioxide that water can retain?	
L24	092-810-2	T Phy	M	Shashank Dholakia & Shishir Dholakia	The Sky is No Limit- A Characterization of Extrasolar Planetary Systems Using Transit Photometry and Mathematical Modelling	
L28	092-820-11	T Phy	M	Ayush Shukla & Derrick Trinh	Temperature and Viscoelastic Layer: Sound Damping	
L30	092-830-7	T Phy	M	Kushal Sharma & Gaurav Sharma	Effect of Nozzle Shape on Thrust Force	
L38	092-840-3	T Phy	F _M	Celia Willner & David Willner	What is the effect of varying acoustic frequencies on sound transmitted through a controlled sound curtain?	
L40	092-A10-12	T Eng	M	Srivatsav Pyda & Shasvat Jawahar	Using Machine Learning to Reconstruct and Analyze Metabolic Networks: A Step Forward in Predictive Engineering of Morphology and Chemical Composition	
L46	092-A20-8	T Eng	M	Varun Naik & Christopher Sanchez	Using Shake Generators to Charge a Cell Phone	
L48	092-A30-4	T Eng	M	Kaushik Tandon & Anurag Singh	Parking Pigeon: Application for Enhanced Localization in Multi Story Parking Lots	
L54	092-A40-13	T Eng	F	Anita Ilango & Megha Ilango	A Microbial Fuel Cell for the Processing of Acid Whey and Power Generation	
L58	092-B10-4	T Comp	F _M	Rohan Joshi & Rosemarie Wei	Artificial Intelligence: Can a computer "learn" from a user?	
L62	092-B30-9	T Comp	F	Maya Sankar & Jane Ahn	Set! Finding the Fastest Winner's Strategy	
L68	092-C10-9	T Bioinfo	M	Aashish Jain & Parth Pendurkar	How the Ability of the Heterocephalus Glaber to Resist Cancer can be Applied Toward Medical Research Concerning Humans	
L74	092-C30-1	T Bioinfo	M	Carl Luo & Matthew Nguyen	Sustainable Green Nanoparticles from Grass and Leaves	
L76	101-110-12	Bot	M	Liam Conrad	The Effects of Multicolor Light on Raphanus sativus Plant Pigments	
L78	101-120-8	Bot	M	Mason Julian	Effects of Brain Stimulants on the Growth and Development of Brassica rapa	
L80	101-130-4	Bot	M	Shomik Jain	The Effect of Bisphenol A on Lactuca sativa var. Longifolia	
L82	101-140-13	Bot	F	Lauren Verheyden	Effects of Astragalus Canadensis Extracts on Erwinia Carotovora Diseased Plants	
L84	101-150-9	Bot	F	Stuti Vishwabhan	Is the food we consume daily genetically modified? Evaluating the presence of genetically modified organisms (GMO) in our food by detection of non-plant DNA elements using Polymerase Chain Reaction (PCR) method.	
L86	101-160-5	Bot	F	Samvardhini Sridharan	The emission of methyl salicylate in response to the application of simple and complex sugars to lacerations of Gaultheria Procumbens	
L88	101-170-1	Bot	F	Esra Altun	Will Music Affect the Growth of Moss?	

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
L90	101-180-10	Bot	M	Nathan Chang	Growth Factors of the Algae, <i>Chlorella vulgaris</i>	
L92	101-210-4	Env	F	Bhavana Pabbiseti	What is the effect of the amount of selenium in soil on the selenium intake in plants?	
L94	101-230-9	Env	F	Amy Zhang	The Phytoremediation of Zinc by <i>Lemna minor</i>	
L96	101-240-5	Env	M	Viet Nguyen	Video Analysis of the Effect of Nanosilver on <i>Daphnia</i>	
L98	101-250-1	Env	F	Samali Sahoo	Determining Amounts of Biocellulase in Fungi in order to Find a Unique Biofuel	
L99	101-310-9	Zoo	M	Suleyman Sarigoz	Ants in a Maze	
L97	101-430-6	Soc	F	Adelaide Chen	Does the Power of Suggestion Apply to Memories?	
L95	101-440-2	Soc	F	Adele Li	Examining the effect of continuous LED, fluorescent, and incandescent lighting in mutants of the galphaq gene egl-30 during lethargus in <i>Caenorhabditis elegans</i>	
L93	101-450-11	Soc	M	Anuj Varma	Which is stronger, a first impression or a last impression?	
L91	101-460-7	Soc	F	Mary Simone	The Influence of Task Instruction on Performance and the Ability of Self-Efficacy to Predict Results	
L89	101-510-6	Med	M	William Li	Effect of Cell Phone Radiation on Associative Learning Ability of <i>Caenorhabditis elegans</i>	
L87	101-511-4	Med	M	Gautam Bulusu	Biomarkers in risk prediction model (RPM) predicting recurrence in patients with Ductal carcinoma in situ (DCIS)	
L85	101-520-2	Med	F	Priya Choudhary	Cancer Treatment using Nanotechnology: The Effects of Photothermal Therapy on Apoptosis Rates of Prostate Cancer Cells	
L83	101-521-13	Med	F	Meera Rachamalla	Inhibition of horizontal gene transfer through photoinduced degradation of plasmid DNA using riboflavin and anthraquinone	
L81	101-530-11	Med	M	Anin Sayana	The Unfolded Protein Response in Cancer Resistance: A Novel Therapeutic Target for Alveolar Rhabdomyosarcoma	
L79	101-531-9	Med	F	Divya Periyakoil	The Symptom Gauge	
L77	101-540-7	Med	F	Kristen Masada	Solvent Solution: DMSO and Its Effects on the Drug Delivery of Lorazepam	
L73	101-550-3	Med	M	Milan Gambhir	A Wearable Ultrasonic Device for the Early Detection of Tumor Recurrence	
L71	101-560-12	Med	F	Durga Ganesh	Improving Gut Health	
L69	101-570-8	Med	F	Revati Gottumukkala	The Effect of <i>Tamarindus Indica</i> L. on the Excretion of Fluoride in <i>Caenorhabditis Elegans</i>	
L63	101-580-4	Med	F	Rachna Prasad	What <i>Drosophila</i> Can Tell Us About Chemical Induced Asthma	
L61	101-590-13	Med	M	Shrey Desai	Non-steroidal Anti-inflammatory Drugs and their Effects on Amyloid-Beta Proteins in Alzheimer's Disease	
L59	101-611-9	Bio	M	Vinay Ayyappan	A Novel Strategy to Mitigate Bacterial Quorum Sensing via Inhibition of Autoinducer-2 (AI-2) through Boron Encapsulation by Polyvinyl Alcohol	
L55	101-620-7	Bio	M	Ayan Bandyopadhyay	A Graphene-Carbon Nanotube Hybrid Based Photosystem 1 Photovoltaic Cell	
L53	101-621-5	Bio	F	Sarita Berigei	Testing Antibacterial Activity of Spider Silk Against Bacteria	
L49	101-630-3	Bio	F	Melissa Wang	The Effects of Caffeine on the Mating Behavior of <i>C. elegans</i> with a mutation in its PKD gene	
L47	101-640-12	Bio	F	Ayushi Gautam	The Effect of Growth Temperature on Fungal Enzyme Activity for Biofuels	
L43	101-650-8	Bio	F	Stephanie Huang	Antibiotic Resistance of <i>E. Coli</i> with Biofilm	
L41	101-660-4	Bio	F	Malvika Khanna	The Effects of Sound Frequency Exposure on Colony Growth-Rate and	

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
						Viability in Lactobacillus
L39	101-670-13	Bio	F	Arpita Singhal		A Novel Method to Diagnose Cancer: Developing a BioMarker to Detect EGFRvIII Expression in Cancer Cells
L33	101-690-5	Bio	F	Deepthi Sampathkumar		Effects of Metformin on E.coli Bacteria Linked to Onset of Diabetes
L31	101-720-12	Chem	F	Audrey Cheng		Novel Mechanism for Attachment of Peptides to Functionalized Carbon Nanotubes
L29	101-730-8	Chem	F	Anjini Karthik		Developing a Novel Method for the Detection of Pathogens on Surfaces Using Cell-Imprinted Polymers.
L27	101-740-4	Chem	M	Rishabh Chandra		Improving the Efficiency of a Bio-Battery as a Biofuel Energy Source
L25	101-750-13	Chem	F	Kristine Zhang		Development of Novel Metal Nanostructures for Efficient and Broadband Solar Energy Conversion
L23	101-760-9	Chem	F	Sampada Deglurkar		Water-Splitting Fuel Cells: An Efficient Way to Store Renewable Energy
L19	101-810-8	Phy	M	Nithin Buduma		Evaluating the Effectiveness of the Anisotropic Kondo Systems CeNiSn and FeSi as topological insulators reveals anomalous transport behavior
L17	101-820-4	Phy	F	Anjali Ganguly		Increasing Fluid Dynamic Efficiency Through Boundary Layer Tripping
L15	101-830-13	Phy	F	Anusuya Arjavalingham		The Effect of Magnetism on Electrolysis
L13	101-910-13	Ear	M	Nathan Mallipeddi		Is There a Correlation Between the Distance and Metallicity of Galaxies with Varying Masses?
L11	101-920-9	Ear	M	Ajinkya Nene		A Novel Approach to Asteroid Identification and Orbital Fitting Using Crowd-Sourcing and Image Analysis Software
M10	101-930-5	Ear	F	Simran Pabla		Classification of Celestial Objects Based On Magnitude
M12	101-A10-5	Eng	F	Gabriella Abaci		Producing Energy-Efficient and Cost-Effective Fuel Briquettes Utilizing Readily Available Biomass
M14	101-A11-3	Eng	M	Aayush Gupta		Trying to Make a More Hand Friendly Computer Mouse
M16	101-A12-1	Eng	M	Ajay Jain		An Autonomous Networked Robotic Nurse for Patients and the Elderly for Care, Monitoring, Diagnostics and Supply Delivery
M18	101-A20-1	Eng	F	Yannan Tuo		Enhancing Solar Cell Efficiency with Fluorescent Coatings
M22	101-A21-12	Eng	M	Siddharth Venkatraman		Theoretical Design to Beam Helium-3 Energy from the Moon
M24	101-A22-10	Eng	M	Adam Rhetta		What is the Cooling Efficiency of Heat Pipes and Fans for Electrical Circuits?
M26	101-A30-10	Eng	F	Amrita Venkatraman		Building A Mobile Sensor to Detect Hand Tremors for the Determination of Psychosocial and Pathological Conditions
M28	101-A31-8	Eng	M	Paul Dennig		Eliminating Thirst & Darkness in the Developing World: An Affordable and Clean System Utilizing Pumped Hydro and Axial Flux Machines
M30	101-A40-6	Eng	F	Neha Kunjal		The Design of an Efficient System that can Separate Mud and Debris from Muddy water
M32	101-A41-4	Eng	F	Rasika Iyer		Search and Rescue Robot Mission
M38	101-A50-2	Eng	F	Maggie Chou		A Less Harmful Bug Repellent Using Methyl Anthranilate
M40	101-A51-13	Eng	F	Maya Varma		A Novel Wireless Microcontroller-Based Pulmonary Function Analyzer for Early Detection of Chronic Obstructive Pulmonary Disease (COPD)
M42	101-A60-11	Eng	M	Caton Lu		Airfoil Alteration
M46	101-A61-9	Eng	F	Nisha Bhatia		A Smart Smoke Detector
M48	101-A70-7	Eng	M	Brandon Pham		Synthesis of Oil Sequestering Magnetic Nanoparticles

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
M52	101-A71-5	Eng		M	Rahul Tewari	"Many-Causes-to-One-Effect Decision Subsystem" to create Smarter Devices
M54	101-A80-3	Eng		M	Andrew Shacker	Economical Attitude Detection Using a Single GPS Antenna
M58	101-A81-1	Eng		M	Pransu Dash	Application and Synthesis of Thermal Energy from Kinetic Generators
M60	101-A90-12	Eng		M	Vikram Vasani	A novel approach for improving depth perception in those impaired with stereopsis
M62	101-A91-10	Eng		M	Tony Jojan	DIY Home Current Monitoring System
M68	101-B10-10	Comp		M	Snehal Dey	A Novel Way to Test Stress Levels in Humans Using Image Analysis
M72	101-B20-6	Comp		M	Edward Lee	A Cross-Language Analysis of Typographical Information Rate
M74	101-B30-2	Comp		M	Ken Noh	Analysis of Pandemic Factors via Virus Simulation
M76	101-C10-2	Bioinfo		F	Karen Qi	The Accuracy of Cancer Diagnosis by Supervised Machine Learning with Gene Expression Data from DNA Microarrays
M78	101-C20-11	Bioinfo		F	Swetha Revanur	Factomics: A Cloud-Enabled Web Portal Incorporating Genomic Association Studies Facilitating Disease Correlation and Causation Analysis
M80	101-C30-7	Bioinfo		M	Jonathan Fung	Developing a diagnostic tool for Glioblastoma: Utilization of machine learning algorithms to identify target genes and genomic signatures
M82	101-C40-3	Bioinfo		M	Keerthi Krishnan	Reducing false-positive biopsies: a unique RT image processing technique as a filter on mammography images for BI-RADS 4 assessment and new thresholds for intervention.
M84	101-C50-12	Bioinfo		F	Annette Chu	Exploring Protein Function with Bioinformatics Tools
M86	101-C70-4	Bioinfo		M	Pranav Srinivas	Bayesian Network Analysis of Signaling Pathways Crosstalk in Colorectal Cancer
M88	101-C80-13	Bioinfo		F	Mabel Furutsuki	Too Scared to Eat? A genomic study in search of intersecting hypothalamic genes and pathways of Anorexia and Trait Anxiety in two independent mouse models
M90	101-C90-9	Bioinfo		F	Manogna Vemulapati	A Novel pq-Gram Kernel for SVM Classification of Non-coding RNA
M92	102-110-9	T Bot		F	Peggy Ho & Kathy Tran	Beeswax on Plants: Hydrophobic Effects of Cutin
M96	102-310-6	T Zoo		M	Jonathan Ta & Michael Moncton	The Effect of Temperature and Feeding on Veliger's Activity Levels
M98	102-420-7	T Soc		M	Sathvik Nair & Anirvin Sikha	Telling the Difference: Effects of human senses on detecting the difference between organic and inorganic foods
M97	102-430-3	T Soc		F	Marissa Patterson & Chandler Sutherland	The Effect of Subliminal Messages on Hunger and Thirst
M95	102-510-3	T Med		M	Ishaan Shah & Vamsee Vemulapalli	The Contribution of Ethanol in the Extracellular Matrix on Lipopolysaccharide-Challenged White Blood Cells from Sheep Blood to Lactate Production.
M91	102-520-12	T Med		M	Mukund Hari & Srisaiteja Vemireddy	Impact of Curcumin on Cancer Induced Drosophila Specimen
M87	102-710-13	T Chem		M	Jibraan Qureshi & Muhammed Halbutogullari & Prabal Saha	What is the Effect of Different Concentrations of Copper Sulfate and Zinc Sulfate on the initial voltage
M85	102-720-9	T Chem		F	Smiti Narayanan & Christine Tung	Effects of Various Natural Substances on the Change in Pigmentation of Hair.
M81	102-810-5	T Phy		F	Sarika Madhupathy & Shannon Hoang	What is the effect of different types of light bulbs on the electrical output of solar panels?
M79	102-820-1	T Phy		M	Rami Khadder & Jeremy Browne	How Does the Volume of Helium Directly Relate to Its Buoyancy
M73	102-830-10	T Phy		M	Jasper Gan & Luke Hong	Making Boats More Efficient- An innovative way to modify the boat hull design to make the boat more hydrodynamic
M71	102-840-6	T Phy		F _M	Adrienne Ly & Lemar Maschuq	Windspeed: What is the effect of windspeed of a wingsuit airfoil on lift and drag?

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
M63	102-850-2	T	Phy	F	Myhan Nguyen & Katherine Nguyen	What is the effect of the distance of heat exposure on the amount split ends on hair?
M61	102-860-11	T	Phy	F	Connie Huang & Priyanka Pabla	How does the shape of the ridges in our ears affect the focusing of sound?
M55	102-870-7	T	Phy	F/M	Davis Gu & Christine Pham	Frost: How the Angle of Glass Affect the Amount of Frost Buildup
M49	102-880-3	T	Phy	M	Sam Choppala & Nuh Ersahin & Sakariya Ali	Build an all terrain robot
M43	102-A10-2	T	Eng	M	Mohammed Khan & Murad Icel & Rayyan Khan	Magnetic Hover Cars
M41	102-A11-13	T	Eng	M	Vinay Kukutla & Chetan Somani	Implementing Fresnel Lensing for Increasing Energy Absorption and Efficiency of Solar Panels
M33	102-A21-9	T	Eng	F/M	Evani Radiya-Dixit & Kaushik Sankar & Jonathan Trinh	An Experimental Evaluation of Leading Edge Tubercles on Airfoil Performance
M29	102-A30-7	T	Eng	F	Zuhra Bholat & Jiayi Luo	Performance of a Plant Microbial Fuel Cell with Oryza Sativa
M27	102-A31-5	T	Eng	M	Adish Jain & Andy Zhang	A Novel Approach to Harnessing the Energy of the Sun: Using a Thermoelectric Generating Heat Chamber to Recharge a Cell Phone
M23	102-A50-12	T	Eng	F/M	Harmen Kaur & Western Han	Creating a Rotational Force Feedback Controller
M19	102-A60-8	T	Eng	F	Sarah Saeed & Elizabeth Wang	Magnetic Touch
M15	102-A70-4	T	Eng	M	Conrado Perez & Evan Avalos-Zavala	Robotic Spines
M13	102-A80-13	T	Eng	M	Jonathan Tai & Tri Nguyen	Brain Activity and Haptic Feedback
N10	102-A90-9	T	Eng	M	John Pham & Isaiah Carattini	The Revolution of Gaming: Force and Pressure Sensitive Gloves
N12	102-B10-7	T	Comp	M	Uttam Suryadevara & Lawrence Liu	Independent Communications And Data Transfer Through Decentralized Local Networks
N16	102-C10-12	T	Bioinfo	F/M	Rahul Iyer & Amrita Iyer	Application of Biometric Sensors with Arduino and XBEE through Mobile Devices as a Method of Security
N18	111-110-6		Bot	F	Marina Torras	The Effect of 2,4-Dichlorophenoxyacetic Acid on Echinacea purpurea Phyllotactic Patterns
N22	111-120-2		Bot	F	Nisha Patel	What is the Effect of Fungal Inoculation on the Crown Gall Disease caused by the bacteria Agrobacterium tumefaciens?
N24	111-130-11		Bot	M	Rahul Jayaraman	The Effect of Piezoelectricity on Rejuvenating Plant Cells and their Signals
N26	111-150-3		Bot	F	Divya Balchander	Effects of Estrogen and Progesterone Supplements on Anubias lanceolata and Hygrophila difformis
N28	111-170-8		Bot	M	Obaid Khan	Does the Difference in Wood Density between Evergreen and Deciduous Woody Shrubs Affect their Drought Tolerance?
N30	111-190-13		Bot	M	David Liang	Thigmotropic response in Passion Fruit Tendrils
N32	111-210-11		Env	M	Donghoon Kang	The Effect of Photodegradation of Escherichia Coli on Water Quality Parameters
N38	111-211-9		Env	F	Pooja Belur	Presence of Antibiotic Resistant Genes in Bottled Drinking Water Samples
N40	111-220-7		Env	M	David Wang	Practicality of Atmospheric Carbon Dioxide Capture by Bubbling Ambient Air through Sodium Hydroxide Solution
N42	111-221-5		Env	F	Tiara Bhattacharya	Effect of Mushroom Cellobioses on the Degradation Rate of PNP Glucopyranoside in Coordination with their Potentials as a Biofuel
N46	111-230-3		Env	M	Nicholas Egan	Examining the Effects of the Common Swine Feed Antibiotics, Tylosin and Chlortetracycline, Upon the Decomposition Rate of Their Fecal Matter
N48	111-240-12		Env	M	Wilson Ye	The Effectiveness of Water Filtration of Fine Particles in the Air
N52	111-241-10		Env	M	Anthony Moller	The Optimized Processing of Home and School Compost for the Production of Cellulosic Biomass

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
N54	111-251-6		Env	M	Chinmay Vaidya	The Optimization of the Breakdown of Medium Density Polyethylene via the Bacteria <i>P. putida</i> and <i>P. fluorescens</i>
N58	111-260-4		Env	F	Alicia Liu	Effects of Over-the-Counter Pharmaceuticals on the Fertilization of <i>Lytechinus pictus</i> (White Sea Urchin)
N60	111-270-13		Env	M	Rachit Kataria	A Novel Approach on the Maximization of CO ₂ Intake through the Use of 3-Indoleacetic Acid and Kinetin Chemical Enhancement and Mycorrhizal Fungal Alteration on <i>Rhizophora Mangle</i>
N62	111-290-5		Env	M	Long Nguyen	Blastoid Body Size - Changes from the Carboniferous to the End-Permian
N68	111-310-3		Zoo	F	Yana Petri	The effects of ingestion of spores and proteinaceous parasporal crystals produced by <i>Bacillus thuringiensis</i> on the survival and olfactory associative learning performance of adult honeybees of the species <i>Apis mellifera</i> .
N72	111-320-12		Zoo	F	Morgan Haag	The possibility of opsin as a light sensor in the skin of cuttlefish
N74	111-330-8		Zoo	M	Annirudh Ankola	The effects of diet on ant pheromone production
N76	111-340-4		Zoo	F	Gauri Patil	Determining the Effect of <i>Cocos Nucifera</i> Oil in <i>Caenorhabditis Elegans</i> that display Alzheimer's Disease Symptoms
N78	111-360-9		Zoo	F	Shefali Patel	Genomic Data Analysis of Aggression in Animals through a Comparative Study of Neurological Disorders
N80	111-410-8		Soc	F	Ameena Golding	Short Term Memory Retrieval via Visual and Verbal Stimuli: The Effects of Age and Sex
N82	111-420-4		Soc	F	Sabrina Sidhu	Exploring the Relationship between Social Media Activity and Real World Personality Traits in High School Students
N84	111-510-13		Med	F	Olivia Woodford-Berry	The Effects of Various Lactic Acid Exposure on the Extracellular pH of <i>Rattus norvegicus</i> Smooth Muscle Cells
N86	111-511-11		Med	M	Keshav Thvar	Novel ultraviolet LED based device for producing Vitamin D in human skin
N88	111-521-7		Med	F	Hima Rajana	Understanding the Neurobiological Basis of Sleep Using Neurodegenerative Diseases as Models
N90	111-530-5		Med	M	Roy Hsieh	PTSD Risk Factor Modeling in <i>Drosophila</i>
N92	111-531-3		Med	F	Sneha Mohidekar	Effects of Resveratrol on DNA Mutations in <i>Drosophila Melanogaster</i>
N94	111-540-1		Med	F	Aiswarya Sankar	Reducing Hyper-excitation in Autism: A Test of Various Medicinal Herb's Ability to Increase Inhibition in the Roots of <i>Arabidopsis Thaliana</i>
N96	111-541-12		Med	M	Nikash Shankar	Neuroprotective effect of the activation of canonical and noncanonical Wnt signaling pathway on neuronal cells exposed to Beta A oligomers
N98	111-550-10		Med	F	Neha Sunil	The Effect of Sleep Amount and Variation on Perceived Stress and Long-Term Cortisol Levels
N99	111-551-8		Med	F	Cindy Liu	Optimization of the Automated Choroidal Segmentation Method in Human Eye with 1050 nm Optical Coherence Tomography
N97	111-560-6		Med	M	Neil Movva	Rapid Tissue Repair: Using Enzymatic Hydrogels and Collagen Matrices to Cover & Heal Epithelial Wounds
N95	111-570-2		Med	M	Matthew Huang	Developing a Novel, Automated Method to Predict Chronic Heart Failure Through Oscillatory Ventilation During Cardiopulmonary Exercise Testing
N93	111-611-3		Bio	F	Madeleine Barryte	Effect of Cathodes and Catalysts on Electrical Output of Microbial Fuel Cell Batteries

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
N91	111-620-1		Bio	M	Scott Haskell	Effects of Extremely Low Frequency (ELF) Magnetic Fields on Daphnia and their Population Growth
N89	111-621-12		Bio	M	Mukund Prabakar	Mitigative effect of Common OTC pharmaceuticals on hydroxylation of estradiol
N87	111-630-10		Bio	M	Aunoy Poddar	Effect of Buthionine Sulfoximine on <i>Saccharomyces cerevisiae</i>
N85	111-631-8		Bio	F	Rachita Pandya	Optimization of Chemically-Defined Media for Generating Clinical-Grade Smooth Muscle Cells, In-Vitro, as a Potential Cell-Based Therapy for Treating Stress Urinary Incontinence in Women.
N83	111-640-6		Bio	M	Sriram Somasundaram	Design and Evaluation of Chitosan-NP Ocular Drug Delivery System for targeted delivery of Ciprofloxacin hydrochloride in bacterial conjunctivitis
N81	111-641-4		Bio	F	Preethi Ravi	The Effect of Curcumin on Ubq-2 (rpl-40) protein expression in Alzheimer-mutated <i>C. elegans</i> Using Immunohistochemistry
N79	111-650-2		Bio	M	Pranav Reddy	Locating miRNA as Genetic Biomarkers for Kawasaki's Disease in Urine
N77	111-660-11		Bio	F	Madelyn Wang	The Effect of the Heterocycle C23H29NO6CIS on the Enzyme MshB
N73	111-670-7		Bio	F	Disha Bahl	Role of Wnt3a in Restoring the Osteogenic Capacity of Aged Bone Marrow
N71	111-680-3		Bio	F	Archana Podury	The Effect of HSP70 and HSP104 on the Aggregation of mHtt Proteins in Yeast Cells
N69	111-720-6		Chem	M	Rohith Kuditipudi	The Application of Cyclodextrins in Chiral Separations
N63	111-730-2		Chem	M	Garrett Conover	Rocket Fuel Efficiency
N61	111-750-7		Chem	F	Ruchi Pandya	The development of a Carbon Nanofiber electrode based sensor for cardiac health monitoring
N59	111-810-2		Phy	M	Vadim Korolik	Surface tension's Influence on High Aspect Ratio Structures during Drying
N55	111-820-11		Phy	M	Leo Yu	I3 and I5 Ion Diffusion Through 186-02 Film Modeled Through Monte Carlo Simulation
N53	111-830-7		Phy	F	Namrata Balasingam	A Monte Carlo Study of the Scalability and Variability of the Forming Voltage of Transition Metal Oxide (TMO) ReRAMs.
N49	111-840-3		Phy	F	Anisha Braganza	Excited Oxygen Chemistry in Disks around Young Stars
N47	111-850-12		Phy	F	Sanam Javid	Shooting Angle & Trajectory
N43	111-860-8		Phy	M	Jonathan Gabbert	Can We Slow Down Light?
N41	111-870-4		Phy	M	Vikram Kalahasthi	Extinguishing Flames Using Sound
N39	111-880-13		Phy	F	Lauren Doh	Fore!
N33	111-890-9		Phy	M	Waylon Lai	How Can We Study Aerodynamics of a Wing Via Practical Methods?
N31	111-910-7		Ear	F	Sahana Rangarajan	Oxygen Levels Near the Surface of Europa
N29	111-920-3		Ear	M	Christopher Powers	Investigating Vegetation as a Natural Barrier to Reduce Tsunami Power
N27	111-A10-12		Eng	F	Shiloh Curtis	Enabling Situational Awareness: A Hat-Based Hands-Free Haptic Navigational Aid for the Visually Impaired
N23	111-A11-10		Eng	M	Karthik Srivatsan	Radiant Heat Cellphone Charger
N19	111-A12-8		Eng	F	Britney Bliven	Waves On Fire
N15	111-A21-6		Eng	F	Christy Nguyen	Bodies of Water
N13	111-A30-4		Eng	M	Leron Perez	Biomimetic Robot Based on <i>Cypselurus californicus</i> For Hydro-Aerial Applications
P10	111-A31-2		Eng	M	Ajay Ramesh	Treating Carpal Tunnel Syndrome Through Motion Tracking Technology and the Web
P12	111-A41-11		Eng	M	Manfred Virgil Ambat	The Novel Design of a Three-Dimensional, Space-Based,

Synopsis Championship 2014 Master Project List

Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
						Mirror-Implementing, Photovoltaic Solar Collector
P16	111-A50-9	Eng	M	M	Kailas Vodrahalli	Transmission of Solar Energy through Optical Waveguides: Modeling and Material Studies.
P18	111-A51-7	Eng	F	F	Leela Amladi	A Pill-Buddy Platform.
P24	111-A60-5	Eng	M	M	Vamsi Gadiraju	Improving the Wettability Of Vertically Aligned Single Walled Carbon Nanotubes in Supercapacitors Via Substrate Patterning
P26	111-A61-3	Eng	F	F	Jacqueline Duong	Getting to the Pointe
P30	111-A70-1	Eng	M	M	Nikunj Khetan	The Deposition of Carbon Nanotubes Using Common Waste as a Pre-Product
P32	111-A71-12	Eng	M	M	Hershel Shah	Morphability: Creating a Smart Material by Modifying Electro-active Polymers
P40	111-A80-10	Eng	F	F	Emily Kuehn	The Roboroach Backpack
P42	111-A90-6	Eng	M	M	Shantanu Tulshibagwale	Your Phone is Your PC
P48	111-A91-4	Eng	M	M	Roderick Jones	Grasping with Straws
P52	111-B10-4	Comp	F	F	Nitya Mani	Characterizing the N-Division Points of Genus 0 Curves Through Ruler-Compass Constructions
P54	111-B11-2	Comp	F	F	Ankita Pannu	Finding comfort in numbers: Using natural language processing and text mining to improve the effectiveness of online cancer support groups
P58	111-B21-11	Comp	F	F	Maya Josyula	Branching Angles of Vascular Networks
P60	111-B30-9	Comp	M	M	William Zhang	Plant Identification With Noisy Web Data
P62	111-B31-7	Comp	M	M	Agastya Gupta	An Inexpensive, Global, and Effective Means of Diagnosing Heart Disease
P68	111-B40-5	Comp	F	F	Julia Miao	Mammographic Diagnosis for Breast Cancer Biopsy Predictions Using Support Vector Machine (SVM) Learning Classification
P72	111-B41-3	Comp	M	M	Tanay Tandon	A Machine Learning Model for Automated Short Essay Assessment through Random Forest based Ensemble Training Methods with Natural Language Processing driven Feature Engineering
P74	111-B50-1	Comp	M	M	Siddharth Prasad	Walks on Primes in Imaginary Quadratic Fields
P76	111-B51-12	Comp	M	M	Aditya Mishra	Feature Based Object Recognition System to Identify Recyclable Items
P78	111-B60-10	Comp	F	F	Sharon Chen	Visualization of Dynamic State for Future Accelerator-Centric Microarchitectures
P80	111-B70-6	Comp	M	M	Ajay Gopinath	Characterizing the deformation of leukemic neutrophils from large deformations to understand cancer cell migration
P82	111-B71-4	Comp	F	F	Parvathy Menon	Multi-Agent Modeling of Real Estate Recommendation Engine
P84	111-B80-2	Comp	M	M	Jiwan Kang	Comparing PID Control and Iterative Learning Control and Finding the Optimal Algorithm
P86	111-B90-11	Comp	M	M	Sauyon Lee	Composition of Integral Binary Quadratic Forms
P88	111-C10-9	Bioinfo	M	M	Vedant Thyagaraj	Gene Expression Profiling As a Tool For Early Cancer Detection
P92	111-C11-7	Bioinfo	F	F	Madhuri Nori	Comparison of Energy Harvesting Capabilities of Various Gut Bacteria Based on Genetic Attributes
P94	111-C20-5	Bioinfo	M	M	David Lin	Identifying Molecular Signatures for Lung Adenocarcinoma Prognosis and Treatment
P98	111-C21-3	Bioinfo	F	F	Tara Iyer	Gender Differences in the Prevalence of Co-Morbid Disorders Affecting the ASD Population
P99	111-C30-1	Bioinfo	F	F	Allison Kiang	A Bayesian Predictive Model Analyzing Gene Expression and Single Nucleotide Polymorphisms for Correlated Psychiatric Disorders

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
P95	111-C31-12		Bioinfo	M	Anand Chukka	Characterization of atrial and ventricular cardiomyocytes through a video analysis algorithm
P93	111-C40-10		Bioinfo	F	Kriti Lall	The Landscape of Somatic Hypermutation In Cancer
P89	111-C50-6		Bioinfo	M	Hugh Zhang	A Rapid Automated Diagnosis of Malarial Parasites in Blood Films
P87	111-C60-2		Bioinfo	M	Vivek Sriram	Using Agent-Based Modeling to Simulate the Transfer of Zoonotic Pathogens
P83	111-C70-11		Bioinfo	F	Vidya Raghvendra	The Effect of Sleep Deprivation on the Genes Involved with Memory and Decision Making in the Mouse Brain
P81	111-C90-3		Bioinfo	F	Rani Mavram	Practical Prediction of DNA Melting Temperature at a Solid Support
P77	112-510-10	T	Med	F	Megan Seidel & Sabrina Hamada & Destiny Lee	Lyme Disease in Dogs and Humans: Is There a Relationship?
P71	112-520-6	T	Med	M	Clifford Zhang & Kedar Thiagarajan	Frequency of Hemochromatosis HFE Gene Mutations in the Asian Population.
P69	112-610-2	T	Bio	M	Woo Jin Lee & Jarod Olay	Effect of Prebiotics on Survivability of Probiotic Bacteria
P61	112-630-7	T	Bio	F	Tanisha Shankar & Shagun Patel	The Effect of Lycopene on Reducing Cancer Progression of Three Malignant Cell Lines Through the Interference of Androgen Cell Signaling Pathways
P59	112-640-3	T	Bio	F _M	Helen Wu & Stanley Xie	Cell-Type Specific Connectivity Mapping of the Dorsal Raphe
P53	112-650-12	T	Bio	F	Yui Tantiyavarong & Athena Westmoreland	Alcohol Inhibition of Lipase Activity
P49	112-660-8	T	Bio	F	Allison Tam & Marian Park	Inhibiting Effects of Lipocortin on Phospholipase A2-III Enzyme
P43	112-670-4	T	Bio	F	Megan Pham & Jacqueline Cao	What Duration of Ultraviolet Exposure Kills Bacteria?
P39	112-710-7	T	Chem	M	Jason Ngo & Amit Saxena & Samaan Faridjoo	Beryllium/ Potassium Ion Battery
P33	112-720-3	T	Chem	M	Omkar Savant & Shreyan Jain	A Computational Investigation of Iridium Hydride and Other Metastable Metal Hydrides for Optimizing Hydrogen Storage in a Fuel Cell
P29	112-810-12	T	Phy	M	Andrew Ly & Cresencio Castillo	The Miniature Hyperloop
P27	112-820-8	T	Phy	F	Stacey Pereira & Maria Dossani	Lip Balm and Friction
P23	112-A10-9	T	Eng	M	Gerrit Orthlieb & Aaron Chang & Charles Nijmeh	The Generation of Action Potentials in Neurons through Magnetic Stimulation
P17	112-A20-5	T	Eng	M	Aaron Memon & Lee Hsieh	Use of Microfluidic Chip Devices in Efficiently Diagnosing Low Potassium Levels
P15	112-B10-1	T	Comp	M	Rishabh Jain & Vineet Kosaraju	A Navigation Assistant for the Visually Impaired by Means of Robust and Streamlined Object Recognition
P11	112-B20-10	T	Comp	M	Joseph Chang & Jason Huang	Prime Labeling of Complete Binary Trees and an Efficient Prime Labeling Algorithm for Connected Graph
R10	112-B30-6	T	Comp	M	Thomas Fahrner & Akaash Venkat	A Computational Method for Predicting and Modeling Chemical Reactions
R14	112-B40-2	T	Comp	F _M	David Zhu & Menghua Wu	Opinion Weather: Quantifying Public Opinions through Big Data Analysis
R16	112-C10-6	T	Bioinfo	M	Steven Wang & Andrew Jin	Rational Discovery and Optimization of Synergistic Chemotherapy Combinations: A Novel Framework Integrating Gene Perturbation Analysis and Machine Learning Algorithms
R22	112-C20-2	T	Bioinfo	F	Daniela Lee & Sadhika Malladi	Predicting Treatment Response in Triple Negative Breast Cancer Through Quantitative Image Analysis in Perfusion MRI
R24	112-C30-11	T	Bioinfo	F	Nidhi Navaratna & Somya Khare	Development of an Effective Pan-Cancer Prognostic Model: Analyzing Gene Expression Levels of the FOXM1 Transcription Network in Multiple Cancer Types in Order to Predict Patient Survival
R28	112-C40-7	T	Bioinfo	M	Paramjyot Panesar & Nikhil Kansal	Oncogenetic Analysis: An In-Depth Investigation of Gene Expression in Cancerous and Normal Tissue

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
R30	121-110-13	Bot	F	Christine Bernal		A Phenotype Study on the Effects of Ultra Violet Radiation on Germination Rate and Radicle Size of Radish Seeds
R32	121-210-5	Env	F	Brooke Ahmed		A Novel Approach to the Reduction of Released Methane from Sphagnum Moss Through its Association with Methylocella palustris
R38	121-310-10	Zoo	F	Andrea Kibel		Proof of Concept: Digital Vocabulary Analysis for <i>C. Stelleri</i>
R40	121-420-11	Soc	F	Melissa Hartman		Cognitive Reasoning and Memory Abilities in Cuttlefish: Relating Environmental Factors to Specific Patterns Using Positive Reinforcement
R42	121-430-7	Soc	F	Rohini Paul		The Effect of the McGurk Effect and Bias on the Perception of Visual and Auditory Stimuli
R46	121-510-7	Med	F	Shruthi Perati		A Histological Study of the Effects of Wnt Signaling on Cementum Thickness and Regeneration in the First Maxillary Molar
R48	121-520-3	Med	F	Alexa Wise		The Effects of Grape Seed Extract on Chlorambucil Treated Lymphocytes
R52	121-530-12	Med	F	Xiangyue Kong		The Transcription Factor Bcl11b Regulates Mammary Stem Cell Self-renewal and Quiescence Partially Through p21
R54	121-540-8	Med	M	Jesse Chou		Mitochondrial fission instigated by AKAP1 deletion causes decreased neuronal function in vivo
R58	121-550-4	Med	M	Smit Jain		Stringing Along: Examining the Effect of Mechanically Strained Fibronectin on Cell Spreading
R60	121-610-12	Bio	F	Eva Vailionis		The Effects of Ascorbic Acid on the Infection of Escherichia Coli Through Enterobacteria Phage T4
R62	121-620-8	Bio	F	Wynne Stagnaro		Effect of arsenic and methyl-adding nutrients on genome wide methylation patterns
R68	121-630-4	Bio	F	Anika Gupta		A Novel Two-Step Approach Towards Ending Cancer Stem Cell Tumorigenesis: Tumor-Targeted Drug Delivery of Biotin and Hyaluronic Acid-Taxoid Conjugates
R72	121-640-13	Bio	M	Thomas Luh		EMX2 as a predictive biomarker of chemotherapy efficacy in squamous cell lung cancer
R74	121-650-9	Bio	F	Emily Wang		Illuminating Disease Pathways: Developing Bright Fluorescent Proteins to Improve FRET Biosensing.
R76	121-660-5	Bio	M	Vishwajit Kode		Identification of Iron Binding Bacteriophage for the Development of Magnetotactic Stem Cells
R78	121-680-10	Bio	M	Ashwin Srikant		Discovery of Novel Bioactive Compounds Produced from Secondary Metabolism Genes in <i>Austroplebia australis</i>
R80	121-710-4	Chem	M	Efrey Noten		Examining the effect of a polymer-supported palladium catalyst on the yield of a Negishi-coupled diaryl compound
R82	121-730-9	Chem	M	Anshul Ramachandran		Determination of Accurate Molecular Models of Polyatomic Ions in Aqueous Solutions by Molecular Dynamics Simulations
R84	121-810-9	Phy	M	Vikas Bhetanabhotla		Identification of Satellite Galaxies around Milky Way Galactic Analogs using Machine Learning Algorithms
R86	121-910-1	Ear	F	Zareen Choudhury		The Evolving Mixture of Barium Isotopes in Milky Way Halo Stars
R88	121-920-10	Ear	F	Caroline Debs		High Resolution Spectroscopic Measurements of Milky Way Stars
R90	121-930-6	Ear	M	Vidur Sanandan		Structural Parameters and Comparisons of Galaxies in Redshift Range 0.8

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Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
						to 2.0 and Mass Greater Than 10^{10} From Mathematical Residual Model Fits Made From Telescopic and Simulated Images of Varying Depth
R92	121-940-2	Ear	M	M	Marvin Qi	Investigating Structural Parameters of Low-Mass Globular Clusters
R94	121-A10-6	Eng	F	F	Jessica Chiu	Aeroelastic Flight Dynamic Modeling of an Adaptive Camber-Morphing Aircraft for Improved Cruise Efficiency
R96	121-A11-4	Eng	F	F	Maitreyee Joshi	Developing an Automatic Indoor Mapping Technique to Create an Indoor Navigation System App for the Blind and Visually Impaired
R98	121-A20-2	Eng	F	F	Adrina Bourang	Reducing CO2 Emissions from Car Exhausts Through the Use of Hyperbranched Aminosilica
R99	121-A21-13	Eng	M	M	Vibhav Altekar	Engineered Chitosan based MultiReservoir devices for effective localization to treat Multifaceted set of diseases
R97	121-A40-7	Eng	M	M	Adyota Gupta	Sonic Shield: A Novel Approach to Counter IEDs
R95	121-A60-12	Eng	F	F	Abha Pandey	Rapid First Response by Creating a Rescue UAV to Locate Trapped Victims.
R93	121-A70-8	Eng	M	M	Abhishek Johri	The use of depth and RGB sensors to see how far an object is from a person without looking at the object.
R91	121-A80-4	Eng	M	M	Keegan Dahm	Monitoring Tank Levels with Raspberry Pi
R89	121-A90-13	Eng	M	M	Nishant Jain	Development of an Inexpensive Immersive Virtual Reality System Using Consumer-Grade Hardware
R87	121-B10-11	Comp	M	M	Varun Mohan	A Lattice Boltzmann Method Based Computational Model for Optimizing Anode Morphologies to Design Efficient Li-ion Batteries
R85	121-B20-7	Comp	M	M	Paras Jain	Internet of Things: Distributed, Disruption-Resilient Intelligent Networks through Low-Power, Low-Cost Hardware Nodes with Application to Disaster Awareness, Robotics and Monitoring
R83	121-C10-3	Bioinfo	F	F	Natalie Ng	An Intragenomic Screening Tool to Identify Functional Regulatory Single Nucleotide Polymorphisms (rSNPs) Impacting Disease
R81	121-C20-12	Bioinfo	M	M	Charles Liu	Integrated meta-analysis of 64 diseases identifies novel relationship between systemic sclerosis and systemic lupus erythematosus
R79	121-C30-8	Bioinfo	F	F	Anna Thomas	Automating Biomedical Image Segmentation with Random Forests
R77	121-C40-4	Bioinfo	M	M	Daniel Park	Network Connectivity in Resting-State fMRI as a Novel Biomarker in Diagnosing Alzheimer's Disease
R71	122-410-12	T Soc	F/M	F/M	Devaki Belwalkar & Vinay Reddy & Akshaya Sekharan	What is the effect of conscious unilateral breathing on performance in right and left brain hemisphere specific cognitive tasks?
R69	122-510-4	T Med	F	F	Sonia Kapoor & Michelle Nguyen	The Effect of Mint and Cinnamon Oils on Treponema Denticola in Relation to Periodontal Disease
R61	122-610-9	T Bio	F	F	Rena Wang & Tricia Sun	Testing the influence of various concentrations of anabasine, beta nicotine, cotinine, and myosmine found in electronic cigarettes compared to the influence of the electronic cigarette liquid on the viability of Daphnia magna
R55	122-620-5	T Bio	M	M	Truonghuy Mai & Akash Bellippady & Viraj Desai	the effect of microbes on degradation of plastic
R53	122-630-1	T Bio	M	M	Akhil Surapaneni & Hersh Sanghvi	Modeling Novel Sensory Uses of Graphene Nanopores to Detect Urinary Nucleoside Biomarkers 1-Methyladenosine, Cytidine, 8-Hydroxyguanosine

Synopsis Championship 2014 Master Project List

Loc.	Proj. Num.	Team	Cat.	Gender	Students	Title
R47	122-710-1	T	Chem	F	Thuc-Nhi Ha & Thuc-Oanh Ha & Tram Le	Glowing Tea
R41	122-720-10	T	Chem	F	Warda Osman & Rahael Mengistab	Radiation Shield
R39	122-810-6	T	Phy	F/M	Aleyda Mora & Sebastian Thiessen	Bike Tire Friction
R31	122-820-2	T	Phy	F/M	Dani Bader & Lindon Tran	Magnetic fields
R29	122-840-7	T	Phy	F/M	Edgar Baculi & Ngoc My Huynh	How will the distance between magnet stages affect the velocity of the Gauss Launcher projectile?
R25	122-850-3	T	Phy	M	Thienson Pham & Brian Ly & Kevin Dinh	Paper Airplanes: Experimenting with Design and Launch Angles
R19	122-860-12	T	Phy	F	Maritza Lopez Lopez & Haydee Rodriguez & Yolotl Lopez	Fold And Fly
R15	122-A10-3	T	Eng	M	James Detweiler & Maxwell Reynolds & Armon Azizi	A Novel Bioacoustic Approach to Detecting Buried Disaster Victims
R11	122-A20-12	T	Eng	F/M	Aleeza Grace Roque & Caroline Pritchett & Tianjian Huang	Antenna Deployment System