

**47th ANNUAL  
GREATER SAN DIEGO SCIENCE AND ENGINEERING  
FAIR**

**On Behalf Of The Management Committee  
And The Student Advisory Board,  
We Welcome You**

**PROGRAM OF EVENTS**

**Awards Ceremony**

**Cox Arena, San Diego State University**

**Wednesday, March 28 .....6:30 p.m. to 9:00 p.m.**

**Balboa Park Activity Center - March 27 – April 1, 2001**

**Science Fair Hours:**

**Tuesday, March 27 -- Fair Setup .....After School to 8 p.m.**

**Wednesday, March 28 -- Judging (Exhibitors and Judges ONLY) ..... 8:15 a.m. to 1:45 p.m.**

**Thursday, March 29 ..... 9:00 a.m. to 5:00 p.m.**

**Friday, March 30 ..... 9:00 a.m. to 5:00 p.m.**

**Saturday, March 31 -- Family Day..... 10:00 a.m. to 5:00 p.m.**

**Sunday, April 1 ..... 10:00 a.m. to 5:00 p.m.**

**Students Remove Projects**

**Sunday, April 1 .....5:00 p.m. to 8:00 p.m.**

## **BOARD OF GOVERNORS**

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**GREATER SAN DIEGO SCIENCE AND ENGINEERING FAIR**

**PURPOSES**

1. To provide additional motivation for able students to actively apply their knowledge and critical thinking skills through creative problem solving projects in mathematics, science & engineering.
2. To give students and teachers an opportunity to become more widely acquainted with other students, teachers, scientists and engineers who share similar interests in the various fields of science.
3. To give public recognition to talented young people for their achievements and to encourage them to enter careers related to science or engineering.
4. To afford parents and the community an opportunity to examine the products of scientific investigation and the communications skills of students in grades 7-12.
5. To create public awareness of scientific potential of future leaders who will have responsibility for national security and progress.
6. To provide another opportunity by which the schools and community can work together for constructive youth development.

## **PARTICIPANTS**

1. Any student, grade 7 through 12, who attends a public, private or parochial school in San Diego or Imperial County may enter a project in local school or area science fairs.
2. Screening Committees select projects at local and area fairs to apply for entry in the Greater San Diego Science and Engineering Fair (GSDSEF). Students whose projects are selected receive official Applications for Entrance. **All projects selected by screening committee members are subject to reconsideration by the Scientific Review Committee (SRC) of the GSDSEF. The Management Committee of the GSDSEF has the responsibility and authority to disapprove any project deemed unsafe and/or unsuitable.**
3. There are four main divisions in the Greater San Diego Science and Engineering Fair:  
**Junior Division, Life Sciences** -- Grades 7 & 8.  
**Junior Division, Physical Sciences** -- Grades 7 & 8.  
**Senior Division, Life Sciences** -- Grades 9 through 12.  
**Senior Division, Physical Sciences** -- Grades 9 through 12.

## **STANDARDS FOR JUDGING SCIENCE PROJECTS ESTABLISHED BY THE INTERNATIONAL SCIENCE AND ENGINEERING FAIR**

### **1. CREATIVENESS**

Originality of the problem, uniqueness of approach and the handling and interpretation of data should be commensurate with the grade level of the students. Ingenious use of equipment and materials is considered without regard to the cost of the items involved.

### **2. SCIENTIFIC THOUGHT / ENGINEERING GOALS**

#### **Scientific Thought:**

The project shows evidence of depth of study and effort in employing scientific procedures in the solution of a clearly defined problem including study of background, organized procedures, appropriate sampling, orderly recording and analysis of data and the formulation of logical conclusions.

**or**

#### **Engineering Goals:**

The project has a clear objective relevant to the needs of the potential user. The product or process has been tested and is workable and feasible economically and ecologically.

### **3. THOROUGHNESS**

The study is complete within the scope of the problem. Scientific literature has been searched, experiments have been repeated and careful records have been kept.

### **4. SKILL**

Credit is given for special skills needed for the construction or use of equipment and for mathematical, computational, observational and design skills.

### **5. CLARITY**

The purpose, procedures and conclusions are clearly explained orally and through the display. The project notebook is well organized, neat and accurate. Sources of ideas, data and assistance are clearly identified.

## AWARDS

1. The chief award is the privilege to display a project, meet with other exhibitors and share views with scientists. A certificate of merit will be given to each exhibitor in recognition of her or his efforts.
2. Exhibitors will be given opportunities to participate in special scientific tours.
3. First, second, third and fourth place awards, consisting of medals and ribbons, will be given for exhibits in each category in both the Senior and Junior Divisions.
4. Four Senior Division sweepstakes winners will be chosen. Each will receive a \$2000 college scholarship award from the Reuben H. Fleet Science Center. Two, sponsored by QUALCOMM, Inc., will receive trips to the International Science and Engineering Fair where they will enter their projects; one \$2500 from the Biomedical Research Institute and one a trip to Taiwan (presented by Taiwanese American Foundation of San Diego). The four Junior Division Sweepstakes winners will receive cash awards.
5. An all-expense-paid trip to participate in the New Zealand Science Fair (given by the Kiwanis Club of San Diego) will be awarded to one of the Senior Sweepstakes alternates.
6. Engraved plaques will be given to the Sweepstakes winners, alternates (Senior Division) and runners-up (Junior Division).
7. Other awards, presented to exhibitors individually, include: Fred H. Rohr Memorial Award, Reuben H. Fleet Memorial Award, Harry Barnet Memorial Awards, San Diego Oceans Foundation and Student Advisory Board Awards.
8. Scientific Organization and Professional Societies Awards include: Acoustical Society of America (San Diego Chapter); American Cancer Society; American Chemical Society, San Diego Section; American Concrete Institute; American Heart Association; American Industrial Hygiene Assn., San Diego Chapter; American Institute of Aeronautics and Astronautics; American Nuclear Society; American Public Works Association; American Society for Nondestructive Testing, American Society of Civil Engineers; American Society of Heating, Refrigeration and Air Conditioning Engineers; American Society of Materials International; American Society of Mechanical Engineers; Area 8 Association of Resource Conservation Districts; Armed Forces Communications and Electronics Assoc.; Association for Women in Science; Association of Energy Engineers, San Diego Chapter; Association of Old Crows; Athena / UCSD CONNECT; Biotechnology Institute; Building Industry Association Cares for Kids; Biomedical Research Inst. of America; California Association for Health, Physical Education, Recreation and Dance; California Assoc. of Family and Consumer Sciences; California Association of Professional Scientists; California School Nurses Organization; California Environmental Health Assoc., Southwest Chapter; Fish and Richardson; Friends of Famosa Slough; General Atomics Sciences Education Foundation; FGM, Inc.; Genetronics Inc.; Golden Key National Honors Society, UCSD Chapter; Health Awareness Foundation; Health Physics Society, San Diego Chapter; Hewlett-Packard Company, Hillcrest-Mission Valley Lions Club; Hughes Network Systems; Human Factors and Ergonomics Society, San Diego Chapter, Institute of Electrical and Electronics Engineers, Institute of Industrial Engineers; Instrument Society of America; Joanne Helton Memorial Award; Kaiser Permanente Medical Care Program; Marine Technology Society; National Association of Corrosion Engineers, San Diego Section; National University; Nutrasweet Kelco; Optical Society of San Diego; Price-Pottenger Nutrition Foundation; Quail Botanical Gardens Foundation; QUALCOMM Incorporated; Rensselaer Polytechnic Institute; Salk Institute; SAMPE; San Diego Aerospace Museum; San Diego Association for Rational Inquiry; San Diego Astronomy Association; San Diego Audubon Society; San Diego City Department of Environmental Services; San Diego Computer Society, San Diego Computer Society User Group; San Diego Co. Dental Society; San Diego County Department of Environmental Health; San Diego County Medical Society; San Diego County Medical Society Alliance; San Diego County Optometric Society; San Diego County Veterinary Medical Association; San Diego County Water Authority; San Diego Horticulture Association; San Diego Mensa; San Diego Model Railroad Museum; San Diego Natural History Society; San Diego Nutrition Council; San Diego Psychological Association; San Diego Science Alliance; San Diego Science Educators Association; San Diego Shell Club; San Diego Society of Health Systems Pharmacists; Scripps Institution of Oceanography; Sea World; Sea World Landscaping; Sigma Xi; Society for Amateur Scientists; Society for the Advancement of Material and Process Engineering; Society of American Military Engineers; Society of Toxicology, Southern CA Chapter; Society of Women Engineers; Southern CA Branch of American Society of Microbiology; SPAWAR System Center; Structural Engineers Association of San Diego; Tau Beta Pi – UCSD Chapter; Torrey Pines State Reserve Docent Society; U.S. Forest Service; University of California, San Diego; University of San Diego, Engineering Department; Villanova University; Zonta Club of La Jolla; Zoological Society of San Diego.

# 2001 SCIENCE FAIR TOUR SCHEDULE

<u>ORGANIZATION</u>	<u>TOUR#</u>
<b>Thursday, March 29, 2001</b>	
Sea World – 8:30 a.m. to 12:15 p.m. ....	1
City Water Reclamation Center – 12:30 p.m. to 4:30 p.m. ....	2
General Atomics – 12:30 p.m. to 4:30 p.m. ....	3
 <b>Friday, March 30, 2001</b>	
Solar Turbines Incorporated - 1 p.m. to 4:30 p.m. ....	4
Marine Biology Laboratory – 1 p.m. to 4:30 p.m. ....	5
San Diego Zoo – 8:30 a.m. to 11:30 a.m. ....	6
San Diego Supercomputer Center. – 8:30 a.m. to 11:30 a.m. ....	7

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## SPECIAL RECOGNITION AND THANKS

The Management Committee wishes to thank the following persons and organizations contributing time, talent, financial support and materials to this year's fair:

The San Diego Union-Tribune:

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Reuben H. Fleet Science Center

San Diego Automotive Museum

San Diego Hall of Champions

San Diego Model Railroad Museum

San Diego Museum of Photographic Arts

San Diego Museum of Man

San Diego Natural History Museum

San Diego Zoo

Sea World of California

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3860 Convoy, San Diego

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Solar Turbines

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Biomedical Research Institute of America

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**Raffle Prizes**

Anthony's Seafood Restaurants  
Islands Restaurant  
Seau's Raw Mana  
Sheraton San Diego  
Disneyland  
Hornblower Cruises  
Birch Aquarium  
San Diego Padres  
Grape Escape Balloon Adventures  
Old Spaghetti Factory  
AMC Movie Theaters  
Family Fun Center

#	Last Name	First Name	Gr Title	School
Senior Division --- Behavioral / Social Sciences				
106	Abdullah	Qadriyyah	12 Correlating Stress in High School Students with Major Life Events	Mt. Miguel High
107	Barrett	Sabrina	12 Comparing the Quality of Life for Male and Female Adolescents	Mt. Miguel High
108	Blackwell	Jeniffer	12 Measuring Level of Ethnic Identity for Multiethnic Adolescents	Mt. Miguel High
109	Floyd	Daniel	12 Gender-Based Differences in Style and Acceptance of Humor	Mt. Miguel High
110	Greene	Jessica	10 Effects of Music on Mice Running through a Maze	Clairemont High
111	Kinder	Sarah	11 Light Preference of Mice	Julian High
112	Krishnan	Naveen	10 Temporal Constraints on Perceptual Grouping	Torrey Pines High
113	Nguyen	Khang	9 Reading Speed vs Comprehensbn	Preuss
114	Page	Lindsey	10 Effects of Age and Gender on Color Perception	Granite Hills High
115	Prado	Samantha	9 Validity of Multiple Intelligence Tests	Memorial Academy
116	Sierra	Cinthia	10 Memory Game	Central Union High
117	Watson	Jasmine	9 Age Effects on Self-Concept Levels	Memorial Academy
Senior Division --- Biochemistry				
123	Calamaco	Beatriz	10 Two Methods of Protein Determination: A Comparison	Gompers Secondary
124	Contreras	Angela	12 DTT or BSA as Enzyme Stabilizer	Gompers Secondary
125	Diaz	Julio	10 Effect of UAS-extramacrochaetae on the Proneural Cluster of Drosophila	High Tech High
126	Espinoza	Alejandro	10 Differences in Plant and Animal DNA	Central Union High
127	Gatpandan	Christopher	10 The Evolution of the Transcriptional Repressor Gene, Ultrabithorax (Ubx)	Torrey Pines High
128	James	William	9 Which is the Best Cleanser for Preventing Bacterial Growth?	Southwest Jr. High
129	LaPrath	Nicole	10 ITO Used as a Substrate to Visualize and Grow Cells on	Monte Vista High
130	Lukolo	Faustino	9 UV Light Effects on DNA	Memorial Academy
131	Masliah	Alberto	10 Can Your Own Protein Protect You From Alzheimer's Disease?	Torrey Pines High
132	Moguillansky	Debbie	10 The Effects of Colchicine on Poinsettia Chromosomes and Chloroplast	Torrey Pines High
133	Morgan	Joelle	9 Relationship of Body Temperature to	Pt. Loma High

			Optimal Temperature for Enzyme Activity	
134	Nagiel	Isaac	10 Human Mutation Screening for a Gene Causing Congenital Heart Disease	Torrey Pines High
135	Sanford	David	10 A New Method to Indicate if a Cell is Activated	Torrey Pines High
136	Saroki	Christopher	12 Using Chemiluminescence to Test Effectiveness of Various Antioxidants	Chula Vista High
137	Springfield	Ashley	11 Inhibition of Rabbit Muscle Isozymes by Vitamin C	Gompers Secondary
138	Suen	Ray	10 Detection of Genetically Modified Soybeans by PCR method	Torrey Pines High
139	Villanueva	Jose	9 Effect of UV Light on Developing Amoxicilla Resistance in E. coli	Preuss
140	Williams	Cord	9 Effect of Glutathione on an Enzyme	La Costa Canyon High
141	Yang	Albert	10 Determining the Role of Rho Family GTPases in Cell Alignment	Torrey Pines High

Senior Division --- Botany

147	Bitton	Joy	10 Effect of Sodium Chloride on Radishes	Morse High
148	Buchardt	Lindsay	10 Grow Lights vs Fluorescent Lights	Clairemont High
149	Cuapio	Selene	10 Which Auxin Hormone is Best for Plant Growth?	Montgomery High
150	Jordan	Taylor	9 Effects of Liquid pH and Gibberellic Acid on Root Development	Pt. Loma High
151	McAllister	Melisa	9 Optimum Rhizobium Levels for Plant Growth	Memorial Academy
152	McCord	Matthew	9 Effect of Caffeine, Aspartame and MSG on Green Onion Root Tips	San Dieguito Academy
153	Newcomb	Jeremiah	10 Is Humic Acid an Algaecide?	Horizon High
154	Poliner	Rachel	10 Effect of Bonzi on Bean Plants	La Jolla Country Day
155	Thompson	Kellyn	11 Effect of Smog on Plants	Clairemont High
156	de Jesus	Christina	11 Extent of Salt Tolerance in Distichlis spicata and Limonium vulgare	Chula Vista High
157	Garcia	Ricardo	9 Cell Coloring with Plant Dyes	Vincent Memorial High

Senior Division --- Chemistry

162	Benedick	Krysta	10 Which Duck Food Has the Most Energy?	Oceanside High
163	Bunney	Amanda	10 Which Type Salt Melts Ice Fastest?	Clairemont High
164	Elhabashy	Mohammed	11 Can Flame Spectrography be used to Check Human Artifacts?	Granite Hills High
165	Perez	Ana	9 Effect of Fire Retardant on Fabric	Vincent Memorial High
166	Tsai	Stephanie	10 Photoelectrochemical Imaging on Single Crystal Silicon	Torrey Pines High

Senior Division --- Computer Science

172	Hemmati	Farshad	12 Sentence Analysis for Querying Know	La Jolla High
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173 Lorentz	William	ledgebases, Including Mathematical Input 12 Electronic Medical Records: Paperless Solution for Tomorrow's E-Medicine	Futures High
174 Song	Francis	11 Application of Differential Evolution to Solution of Differential Equations	La Jolla High

Senior Division --- Earth and Space Sciences

180 Huang	Viviana	10 Effect of Oil Film on Evaporation Rate of Water	Brawley High
181 Vidal	Raissa	9 Hurricane Suppressor	Southwest Jr. High

Senior Division --- Engineering

187 Alvarado	Cindy	10 Price and Labeling of Motor Oil	Montgomery High
188 Brown	Halley	9 Fin Shape vs Rocket Altitude	Central Union High
189 Cabanas	Rodolfo	9 Graphite vs Steel Shafts	Vincent Memorial High
190 Chase	Ashley	10 Effect of Level, Length, Resistance & Angle on Catapult Shooting Distance	Granite Hills High
191 Cleaver	Nicholas	10 Which Surf Wax Is the Stickiest?	Clairemont High
192 Cox	Jonathan	11 A New Frontier: The Pulse FM Laser Repeater	Grossmont High
193 Dakis	Lisa	10 Is that Light Hot?	Pt. Loma High
194 Iniguez	Karla	9 Does the Balloon Stay Inflated?	Central Union High
195 Leslie	Grace	12 Continuous Wavelet Transform for the Analysis of Musical Sound	San Dieguito Academy
196 Manuel	Angelo	10 Parachute Design	Montgomery High
197 Martinez	Christian	10 Footballs vs Catch Rate	Montgomery High
198 Rechaim	Joshua	10 Employing Various Compounds in a Fuel Cell	Torrey Pines High
199 Reineman	Benjamin	12 An Economically Viable Deep Ocean Benthic Lander for Marine Observation	La Jolla High
200 Russell	Derek	12 Effect of Wave Attenuating Spheres on Wave Amplitude	Mt. Miguel High
201 Wu	Timothy	10 The Prototype of an Advanced Robot Utilizing Complex Control Algorithms	Torrey Pines High

Senior Division --- Environmental Sciences

207 Brockman	Ben	10 Natural Fire Suppression	Clairemont High
208 Cabal	Vionna	12 Toxicity of Manganese and EDTA Remediation for Pond Snails	Mt. Miguel High
209 Cameron	Katie	10 Which is the Best Fertilizer -- Composted or Non-Composted?	Brawley High
210 Corrado	Liliana	9 Precipitation Effects on San Diego Lakes	Memorial Academy
211 Crum	Allison	10 Does Gray Water Affect Plant Growth?	Clairemont High
212 Emerick	Joshua	12 Assaying the Antifouling Properties of Extracts from Intertidal Organisms	Mt. Miguel High
213 Francisco	Kathleen	12 Photodegradation of Crystal Violet using	Mt. Miguel High

216	McAllister	Angelica	Titanium Dioxide as a Catalyst 9 Insecticide Effects on Mussel byssus Thread Formation	Memorial Academy
217	Metra	Michael	10 Salt Concentration in Tijuana Estuary	Montgomery High
218	Minaca	Lorenzo	12 Nitrate/Sulfate Concentrations in Well Water Within the Sweetwater Watershed	Mt. Miguel High
219	Nelson	Lance	12 Urban Runoff Holding Ponds: Innovative Tool in Water Management	Mt. Miguel High
220	Pham	John	12 Genetic Variability of Aquatic Microorganisms in San Diego County Lakes	Mt. Miguel High
221	Rathakoune	Vina	10 Daphnia Bioassay	Gompers Secondary
222	Tran	Julie	11 Effects of Heat on Levels of Nitrogen in Soil	Morse High
223	Wilson	Adrienne	10 Environmental Effects on Latex Balloons	Clairemont High
Senior Division --- Mathematics				
229	Luna	John	9 Correlation of Baseball Pitchers' Height and Weight to ERA	Memorial Academy
230	Pack	Ruston	10 Tessellations of Equilateral Pentagons	San Diego High
231	Urquidez	Isai	9 Which Variables Affect Top NFL Field Goal Kickers?	Memorial Academy
Senior Division --- Medicine and Health				
237	Barajas	Jessica	9 Role for Coelomic Fluid Cell Clotting in Marine Invertebrates	Memorial Academy
238	Chen	Q. Cece	11 New Approach for Cancer Prevention and Treatment	Torrey Pines High
239	Eggett	Mandy	10 Lip Prints...Are They Unique?	Clairemont High
240	Floyd	Deanthia	12 Does K-ras Activate rac?	Mt. Miguel High
241	Gonzales	Karisma	11 Effectiveness of Thyme on Streptococcus salivarius	Morse High
242	Harvey	Sara	9 Are Steroids Effective in Reducing Lung Inflammation?	University City High
243	Johnson	La Shinika	10 Does AlphaSun Work as a Nutritional Supplement?	Lincoln Prep.
244	Khandrika	Harish	9 Cytotoxic Effects of Grape Seed Extracts Against Human Cancer Cells	La Jolla High
245	Le	Linda	11 Effects of Penicillin and Echinacea on Streptococcus salivarius	Morse High
246	Luo	Jonathan	10 Searching for the Genes Responsible for Neuropathic Pain	Torrey Pines High
247	Matthews	Marguerite	12 Comparing the Effects of Exercise and Enrichment on Learning	Mt. Miguel High
248	Riestra	Angelica	10 Effect of Immuno Stimulatory Sequence on Dendritic Cells?	Gompers Secondary
249	Santiago	Roxane	12 Schizophrenia: Search for Cause/Cure using a Mouse Model	Mt. Miguel High
250	Smith II	Dwaine	9 Effect of Blue-Green Algae on B-Cells	Memorial Academy

251	Sumera	Rosanna	Exposed to UV Light 12 Embryonic Bone Development -- Chicken Embryos and Osteoporosis	Morse High
252	Villanueva	Danya	12 Effect of Orientation Angles on Perception of the McCollough Effect	Mt. Miguel High
253	Whitehead	Elizabeth	10 The Co-expression of two Neurotrophins in Single Taste Bud Cells	Torrey Pines High

Senior Division --- Microbiology

259	Alvarez	Briana	10 Pesticide's Active Ingredients Effect on B-Lymphocyte Cells and Human Immunity	San Diego High
260	Flores	Cynthia	12 Does Lemon Kill Bacteria in Raw Fish?	Central Union High
261	Fu	Ross	10 Diffusion Limit Across the Nuclear Pore Complex in Mammalian Cells	Torrey Pines High
262	Gabbai	Emilio	11 The Effect of Darkness and Light on Activity Levels of Paramecia Caudatum	San Dieguito Academy
263	Gallardo	Marisol	9 Anhydrobiotic Effects of Trebalose, Xylose and Glucose on Yeast	Memoral Academy
264	Gamboa	Michael	10 How Safe is Our Drinking Water?	Vincent Memorial High
265	Gomez	Jessica	12 Genetic Effect of UV Radiation on Sordaria fimicola	Chula Vista High
266	Her	Judy	10 Effect of Pain Relievers on Sea Urchins	Morse High
267	McKelley	Joseph	10 Effect of Mouthwash on Salivarius Bacterium	Morse High
268	Mendez	Andres	10 Best Nutriment for Mushrooms	Vincent Memorial High
269	Nepomuceno	John	12 Is Inexpensive Toothpaste as Effective as Premium Brands?	Morse High
270	Rodriguez	Perla	9 Ampicillin / Penicillin Effects on Bacteria Mutation	Memorial Academy
271	Sanchez	Jesenia	12 Effect of Chromium Picolinate and Chromium Polynicotinate on B-Cells	San Diego High
272	Ward	Michael	9 Extracellular Polysaccharide Fermentation	San Diego High
273	Wilson	Patricia	10 Effect of Facial Cleaners on E. coli	Morse High
274	Zissen	Maurice	12 Testing an Oil-Based Nanoemulsion on Sporocidal Activity on Bacillus Species	Chula Vista High
275	Hoekstra	Jake	9 The Effect of Caffeine on DNA Mutations in the Yeast Saccharomyces cerevisea	San Dieguito Academy

Senior Division --- Physics

280	Bergeron	Cassandra	11 Effect of UV Light on a Cu/Zn Battery	Lincoln Prep
281	Hoang	Gloria	9 Mirror Reflections vs Observed Light Intensity	Preuss
282	Kelly	Michael	9 Estimating Tube Frequencies	Pt. Loma High
283	Litton	Eric	12 Exploring Equations for Ki Using Optical Method of Caustics	Mt. Miguel High
284	Montes	Jose	9 Transmission of Sound by Laser Beam Measurement	Memorial Academy

285	Montgomery	Frederick	9	Raindrop Impact vs Crater Size	Preuss
Senior Division --- Zoology					
291	Bantados	Brenda	12	Role of Social Facilitation when Feeding in Mesocricetus auratus	Mt. Miguel High
292	Boster	Samantha	12	Foraging Patterns of Iridomyrmex humilis on Artificial Inflorescences	Mt. Miguel High
293	Campos	Judith	10	How Far Can a Slug or Snail Travel In a Minute	Montgomery High
294	Franco	Karla	12	Rates of Nematocyst and Spirocyst Discharge between Clone Anemone Colonies	Mt. Miguel High
295	Garls	Davina	12	Short-term Food Deprivation and Altered Foraging in Avicularia avicularia	Mt. Miguel High
296	Grand	Frederick	12	Epizoic Limpets: Transfer Frequency Between Shells of Marine Mollusks	Mt. Miguel High
297	Hare	Kylise	9	Panda Play	La Jolla High
298	Joseph	Tom	9	The Effects of Artificial Lighting on Quail	San Dieguito Academy
299	Khimpanh	Dary	10	Catching Dangerous Waves	Lincoln Prep.
300	King	Brenee	12	Influence of Familiarity on Mate Selection Preferences in Poecilia	Mt. Miguel High
301	Krohn	Joshua	9	Emperor Scorpion Memory Capability	Southwest Jr. High
302	Maceno	Nicole	12	Does Flock Size Affect Catoptroporus semipalmatus Predator Scan Behavior?	Mt. Miguel High
303	Moroney	Elizabeth	10	The Effects of Caffeine on the Regeneration Process of Planaria	San Dieguito Academy
304	Pohaku	Nicole	12	Do Kelletia kelletii Prefer Unfouled or Fouled Mytilus edulis?	Mt. Miguel High
305	Robinson	Irene	12	Ability of Murgantia histrionica to Detect Different Isomeris Concentrations	Mt. Miguel High
306	Villanueva	Albert	12	Will Electromagnetic Waves Affect Heart Rates of Daphnia?	Chula Vista High
307	Gonzalez	Jonathan	9	Planaria Regeneration	Southwest Jr. High
Junior Division --- Behavioral / Social Sciences					
504	Cover	Ari	8	Does Smell Affect Taste	Rincon Middle
505	Ablola	Cassandra	8	Let Your Conscience Be Your Guide	Holy Family
506	Akers	Andrew	8	Reaction Time to Auditory vs. Visual Stimuli	Marshall Middle
507	Alters	Brett	8	Will Different Tactile Approaches Affect Efficiency in a Timed Test?	Rhoades
508	Baez	Roxanne	8	Which Shape do Cockatiels Prefer?	Keiller Middle
509	Bailey	Kevin	8	Memory Retention	St. John of the Cross
510	Bastani	Kaveh	7	Effect of Color on Taste	Holy Family
511	Beaudet-DeBus	Mikhaela	8	Children's Flying Dreams	Marshall Middle
512	Beier	Nicole	8	Do As I Do, Not As I Say	St. Mary Star of the Sea
513	Benimoff	Charles	8	Computer vs. Manipulative Learning	Soille S.D. Hebrew Day
514	Bernstein	Lauren	8	Which Type Students are Obsessive	Marshall Middle

515	Blower	Bradyn	Compulsive? 8 Does Coloring Inside the Lines Show Intelligence?	Marshall Middle
516	Brackenbury	Katherine	7 Visual or Verbal?	SCPA
517	Brooks	Courtney	7 Driving While Talking on a Cell Phone	All Saints' Episcopal
518	Bruich	Gregory	8 Effect of Time Changes on Fatal Motor Vehicle Accidents	Muirlands Middle
519	Cantelon	Charlotte	8 Do You Know Your Teacher's Voice?	Pershing Middle
520	Carrier	Nathalie	8 Does Pressure During Practice Increase a Diver's Performance?	Muirlands Middle
521	Casterline	Rebecca	7 Negative Body Language: Does It Guarantee You'll be Ignored?	Rhoades
522	Christofferson	Leslie	8 When do Children Draw Realistic Features on their Human Figures?	Marshall Middle
523	Coffin	Callie	8 Which Characteristics are Remembered Most During First Impressions?	Marshall Middle
524	Conery	Ryan	7 What's A Gear Got to Do with It?	Our Lady of Grace
525	Connor	Darrold	8 How Does Touch Affect Our Lives?	Granger Jr. High
526	Cox	Justin	7 Illusive Center Point	Julian Jr. High
527	Crotty	Daniel	7 Personal Space: Prisoner vs Civilian	Kroc Middle
528	Cunningham	Christopher	7 Short-Term Memory	All Hallows Academy
529	DePonte	Elizabeth	7 Effective Instructions: Oral Demonstrations vs Written Directions	Rhoades
530	Dinh	Joseph	8 Does Our Perception of Time Change When We are Occupied?	Marston Middle
531	Donnelly	Megan	8 Do Men and Women Differ in Giving Directions?	St. Peter's
532	Duncan	Ashley	8 Are You a Super-Taster?	Del Dios Middle
533	Durant	Joseph	8 Effect of Gender on Memory	Sierra Madre Academy
534	Edwards	Bliss	7 Does Age Affect Perception of Time?	Potter Jr. High
535	Edwards	Luke	8 Which is Remembered Better: Sight or Sound?	Julian Jr. High
536	Evans	Allyson	7 Hummingbird Preference in Nectar Color	Del Dios Middle
537	Fabrikant	Ethan	8 Effects of Age on Taste	Hilbdale Middle
538	Felt	Grant	8 Do Birds Prefer Certain Colors Over Others?	Muirlands Middle
539	Fenton	Nicole	8 Compliance Science	Rhoades
540	Fink	Rebecca	8 Accuracy of Eyewitness Identification	Lewis Middle
541	Fleck	Adam	7 How Much Can You Remember?	Blessed Sacrament
542	Forrester	Melissa	7 Human Reaction to a Stop Sign	Pershing Middle
543	Fortes	Eva	8 Does Knowledge of Languages Correlate with Mathematical Ability?	Muirlands Middle
544	Garofalo	Philip	7 To Stop or Not	Our Lady of Grace
545	Gauntlett	Stacy	7 Effects of Color on Short-Term Memory	Pershing Middle
546	Gonzalez	Gabriela	8 Do Movie Theaters Enforce Rating Rules?	Keiller Middle
547	Gonzalez	Maria	7 Students' Reaction to Anger	St. Mary's
548	Green	Jillian	8 America's Dirty Little Secret	Holy Family
549	Grosman	Sarah	7 How Do People Perceive and Emotionally Respond to Color?	Pershing Middle
550	Hammond	Lori	7 Which Sound Environment is Best for Reading Comprehension?	Pershing Middle
551	Hayes	Natalie	7 Full Moon vs Homicide Rates: Is There a	Lewis Middle

		Relationship?	
552 Heard	Kristen	8 Effect of Breakfast on GPA	Del Dios Middle
553 Hedegard	Carl	7 Effect of Various Font Styles on Reading Speed	Rhoades
554 Henry	Kristy	8 Synthesized Music or Not?	Marshall Middle
555 Hicks	Janine	8 Warning --- You Are Entering the Danger Zone	St. Mary's Escondido
556 Ho	Diep	8 8th Grade Girls & Boys Color and Picture Memory	Muirlands Middle
557 Hodges	Aubrey	8 Tell-Tale Eyes	St. Pius X
558 Hoffman	Lauren	7 A-Mazing Rodents	Rhoades
559 Jaffe	Emily	8 Effectiveness of Positive Reinforcement in the Classroom	Lewis Middle
560 Jercinovich	Anthony	8 Effects of Video Games on Reaction Time	St. Peter's
561 Joseph	Rebecca	8 Barbie, To Be or Not To Be	Soille S.D. Hebrew Day
562 Kane	Ashley	7 Short-Term Memory, At Which Age Does It Increase?	Our Lady of Grace
563 Katz	Diana	7 Remembering with Noise	Coleman Prep.
564 Kerr	Jimmy	8 Optical Illusions	Pershing Middle
565 Klein	Tamar	8 Equality or Not? That is the Question	Soille S.D. Hebrew Day
566 Kleist	Ted	7 Does Music Improve Learning?	Our Lady of Grace
567 Kosier	Brent	8 How Video Games Affect Distance Judgment and Accuracy	Muirlands Middle
568 Kramer	Mark	7 Statistical Frequency of RedLight Running	St. Francis
569 Kresky	Benjamin	7 The Effects of a Colored Environment on Mouse Appetite	Nazareth
570 Larcome	Jason	7 Effect of Color on Emotions	St. Pius X
571 Leonard	Chelsea	8 Do Kids Pay More Attention to Television or Real Life?	SCPA
572 Levine	Dana	8 What is Your Brain Seeing?	S. D. Jewish Academy
574 Lowry	Annie-Leigh	8 How Do I Call for Help Without Spooking My Horse?	Julian Jr. High
575 Mahaffey	Brian	8 How Many People Really Stop at Stop Signs?	Marshall Middle
576 Malcolm	Stephanie	8 Colored Paper: Speed of Your Reading	St. Mary Star of the Se
577 Marcus	Susannah	8 Does Age Affect the Magic Eye?	Soille S.D. Hebrew Day
578 Martinez	Desiree	8 Got Mood?	Holy Family
579 McClellan	Jamie	8 Does Sight Affect Taste?	Sullivan
580 McCrary	Diahann	8 Nasal Recall: Study on Smell and Short Term Memory	Holy Family
581 McDermott	Gerard	7 Effects of Subliminal Persuasion upon Choice	St. Pius X
582 McMeeken	Brennan	7 The Mozart Effect	Our Lady of Grace
583 Medina	Janet	7 How People Detect Different Colors?	Castle Park Middle
584 Metzler	Jeremy	8 How Viewing Violence Affects Children	Lewis Middle
585 Meziere	Kevin	8 Determined Weight of Music	Sierra Madre Academy
586 Michel	Jonathan	8 What Am I Reading?	Soille S.D. Hebrew Day
587 Moreno	Allie	8 How Music Affects Your Ability to Perform a Task	Rincon Middle
588 Nager	Stephen	8 Effect of Age and Gender on Sensorimotor Skills	Our Lady of Grace

589 Namdar	Jasmine	7 The Stroop Effect	Good Shepherd
590 Nees	Andrew	7 Are You Quick?	WarrenWalker
591 Nelson	Blake	8 Traffic Violations	de Portola Middle
592 Newton	Amy	8 Does Gender Affect Short Term Memory	Julian Jr. High
593 Ng	Alan	7 Videogaming and Hand&Eye Coordination	St. Ephrem Academy
594 Olsen	Lauren	8 Do Extracurricular Activities Correlate with a Student's GPA?	Muirlands Middle
595 Perry	Morgan	8 Fear: Sound vs Sight	School of the Madeleine
596 Petcavich	Sonya	7 Music vs Academic Performance	All Saints' Episcopal
597 Podlipsky	Shelly	8 Is Short-Term Memory Affected by Age or Gender?	S. D. Jewish Academy
598 Ponec	Ryan	7 Distractiön Reaction	Rhoades
599 Roberts	Kyle	8 Honesty Test of the General Public	Pershing Middle
600 Robinson	Shane	8 Memory: Does Gender Matter?	Our Lady of Grace
601 Romero	Rosalia	7 Does Color Affect Food Preference?	St. Mary's
602 Rossi	Ashton	7 Color of Food vs. Perception of Taste	School of the Madeleine
603 Ryan	Joseph	8 How Accurate Are People at Matching Cars to Their Owners?	Pershing Middle
604 Sacher	Kimberly	8 Minimal Amount of Visual Information Needed to Recognize an Image	Pershing Middle
605 Schoenlein	Erin	8 The Stroop Effect	Del Dios Middle
606 Shedd	Michael	7 Which Color Is Seen Best Peripherally?	St. Peter's
607 Siskowic	Kyle	8 Is there a Correlation Between Eye Dominance and Brain Dominance	Marston Middle
608 Sisson	Patrick	7 Accuracy of Eye-Witness Testimony	Del Dios Middle
610 Stevenson	Sasha	8 Hey! Are You Distracted by This?	Coleman Prep.
611 VanProyen	Anna	7 Optical Illusions: Is Seeing Believing?	Christ Lutheran
612 Vo	Ivy	8 What is the Best Way to Memorize and To Study?	Rincon Middle
613 Waggoner	Katie	7 Does Birth Order Affect Your GPA?	School of the Madeleine
614 Wong	Diana	7 Effect of Insomnia on Mental and Physical Health	National City Middle
615 Wright	Mindy	7 Which Color Stands Out to the Human Eye Most?	Pershing Middle
616 Yue	John	8 Do Children Remember Pictures or Letters Better?	Wangenheim Middle
617 Zeidler	Kevin	8 Effects of Psychological Stereotypes upon Generalized Testing	Muirlands Middle
618 Massa	Matthew	8 Quantifying the Effects of Mobile Phones on Driver Performance	Diegueno Jr. High

Junior Division --- Biochemistry

624 Guel	Danny	8 Effect of Pollution on DNA	San Ysidro Middle
625 Palida	Sakina	8 How Does Light Affect Proteins Involved in Photosynthesis?	Carmel Valley Middle
626 Tan	Jeanine	8 Vitamin C Retention of Citrus Fruit	Wangenheim Middle

Junior Division --- Botany

633	Aguas	Alexander	8	Deciduous or Evergreen: Which is More Flammable?	Wangenheim Middle
634	Antonio	Rheesa	8	Mung Bean Growth: Soil vs Water	Montgomery Acdy.
635	Arena	Monica	8	Effect of Different Liquids on Plant Growth	Keiller Middle
636	Ariza	Jon	8	Effect of Artificial Sweetners on Plant Growth	Keiller Middle
637	Blasic	Gregory	8	Effect of Artificial Light on Plant Growth	de Port&a Middle
638	Bouchard	Reid	7	Is Potting Soil the Best Soil for Your Plants?	Nazareth
639	Brunner	Rex	7	Do Plants Grow Better Inside or Outside?	Kroc Middle
640	Carr	Valerie	8	Organic vs Inorganic Fertilizer: Which Makes Plants Grow Fastest?	St. Columba
641	Cassolato	Michael	7	Fertilizer: Does it Work?	St. John's
642	Centrullo	Gina	7	Acropetal Transport of Nutrients	St. Pius X
643	Chammas	George	7	Which Soil is Best When Planting Herbs?	Pershing Middle
644	Clements	Nicholas	7	Do Iron Supplements Help Plants to Grow?	Kroc Middle
645	Cooper	Alan	8	What Effect will Ocean Water Have on Lima Beans?	Wangenheim Middle
646	Duty	Jessica	8	Endangered Native Plants Reintroduced into the Wild: Second&Year Study	Carlton Oaks
647	Eglin	Charles	8	Fertilizers: Organic vs Inorganic	Pershing Middle
648	Escobar	Araceli	8	Which Vitamins Work Best on Plants?	Keiller Middle
649	Estacio	Sarah	8	Hooked on Hydroponics	Good Shepherd
650	Farala	Jennifer	8	Effects of Light and Liquids on Seed Germination	St. Rita's
651	Ferrer	Michelle	8	Which is the Best pH for Radish Growth?	Del Dios Middle
652	Friedrich	Tyler	7	Mowin' Growin'	St. Peter's
653	Ghachremani	Cyrus	8	Effects of Vitamins and Medicines on Plant Growth	Muirlands Middle
654	Graves	Rania	8	Effect of Different Liquids on Plat Growth	Keiller Middle
655	Gustave	Robert	8	Which Soil is Best for Bean Plants?	Gompers Secondary
656	Hartman	Christopher	8	Does Soil Type Affect the Growth of Perennial Rye Grass?	Marston Middle
657	Hernstad	Jason	8	Soil Amendments vs Radishes	S. D. Jewish Academy
659	Imler	Kathryn	7	Does Algae Rock?	SCPA
660	Kakiuchi	Katherine	8	Light's Effect on Kidney Beans	St. Mary's
661	Kaplan	Zack	8	Does Hydroponics Have Advantage Over Regular Potting Soil?	Muirlands Middle
662	Katz	Jeremy	8	Effects of Graduated Concentrations of Diesel Fuel on Elodea	Pershing Middle
663	Khandeshi	Snehee	7	Effects of Light Exposure on Solanine Production in Potatoes	Rhoades
664	Latham	Adam	8	Varying the Distribution of Light on Plants	Pershing Middle
665	Lederman	Dovid	8	Ready, Set, Grow -- Which Potting Soil Is Best?	Soille S.D. Hebrew Day
666	Manrique	Daniel	8	Lentil Growth and Pot Size	Marshall Middle
667	McCue	Megan	8	Do Vitamins Affect Geranium Growth?	Rincon Middle
668	McDade	Kosta	7	Soils of San Diego	All Hallows Academy

669	Myrick	Devin	7 Which Nutrient is Most Essential for Plant and Flower Growth?	Pershing Middle
670	Myrick	Sean	7 Which Ingredients in the Schinus terebinthifolius Restrict Grass Growth?	Pershing Middle
671	Newcomb	Kimberly	7 Does Humic Acid Affect the Growth of Spanish Moss?	Mt. Everest Academy
672	O'Donnell	Caitlin	8 Does Microwave Radiation Accelerate Seed Germination?	St. Columba
673	O'Leary	Michael	8 Fertilizer: Organic vs Inorganic	Lewis Middle
674	Odierno	Jacob	7 Radishes and Water	Lewis Middle
675	Phillips	Christopher	7 Effects of Minerals on Bean Plant Growth	Blessed Sacrament
676	Raney	Jonathan	8 Temperature's Effect on Seeds	Hillsdale Middle
677	Recksieck	David	8 Better than Ice Plant	Marson Middle
678	Reyes	Mylene	8 Effects of Various Fertilizers on Bean Growth	Wangenheim Middle
679	Romero	Robbi	8 Effect of Copper Sulfate on Plant Growth	Keiller Middle
680	Ruiz	Miguel	8 Effect of Hydrogen Peroxide on Banana Ripening	Preuss
681	Salehian	Carla	7 Which Plant Grows Best with Hydroponics?	St. John's
682	Schwarz	Meir	8 Tap, Soft or Bottled Water: Do Beans Really Care?	Soille S.D. Hebrew Day
683	Sergeeva	Oksana	8 Effect of pH on Shade of Color of Red Leaves	Carmel Valley Middle
684	Sethi	Jesse	8 Growth Rate of Different Grasses	Bonita Vista Middle
685	Stamets	Christopher	8 Germination of Acorns	Julian Jr. High
686	Stetler	Amanda	7 New World of Planting	Wilson Acdy.
687	Studebaker	Andrew	8 Effects of Fertilizers on Radish Growth	Lewis Middle
688	Tran	Vyvy	8 Vitamin C in Strawberries	Lewis Middle
689	Triplett	Kasia	8 Effect of Vitamin B1 on Radishes	Wangenheim Middle
690	Umphres	David	7 The Effect of Fertilizers on Seed Germination	Nazareth
691	Van	Hoang	8 Air Temperature's Effect on Bean Plants	Wangenheim Middle
692	Vasquez	Michelle	8 Effect of Fertilizers on Water Gel Spikes' Release Time	Wangenheim Middle
693	Wallace	Katherine	7 Which Drought-Tolerant Plants Last the Longest in a Drought?	Stella Maris Academy
694	Washburn	Elizabeth	8 In Which Water Will Roses Survive Longest?	St. Columba
695	Wilkinson	Aimee	7 Effects of Electromagnetic Radiation on Germination of Lima Beans	Holy Family
696	Wisniewski	Danielle	8 Effects of Fruit-Derived Ethylene Gas on Ripening Rates	Rhoades
697	Nguyen	Dan	8 Customizing Cacti	Rancho Del Rey Middle
Junior Division --- Chemistry				
702	Abdinur	Mohamed	7 Acidity of Tea	San Diego Islamic
703	Adam	Zachary	8 Chemical Reactions with Baking Soda and Vinegar	Pershing Middle
704	Barrera	Jaclyn	8 Water Quality in Various Estuaries	St. John of the Cross
705	Blessing	John	7 Electron Flow vs Valences of Metals	Peirce Middle

706 Brees	Laura	7 Food Colors, Are They Really One Color?	Good Shepherd
707 Brinkerhoff	Elizabeth	7 Which Fruit is the Sweetest?	St. Mary's
708 Buono	Kristen	8 Don't Throw that Expired Aspirin Away!	Lewis Middle
709 Calta	Nicholas	7 Sugar Crystals: Effect of Surface on Growth	St. John's
710 Cary	Hannah	8 Digestion in a Bottle	Lewis Middle
711 Castrejon	Hugo	8 Effect of Garlic Supplement on Sugar Uptake of Yeast	Preuss
712 Cheung	Frederick	7 How Much Vitamin C is There in Fruits?	Lewis Middle
713 Cleary	Michael	8 Quantities of Vitamin C Measured over Time in Different Storage Conditions	St. Francis
714 Edman	Seth	8 Surface Tension of Water	Julian Jr. High
715 Fern	Adam	7 Do Sugar Solutions Change Light's Polarization?	Hill Creek
716 Guymon	Matthew	7 Tummy Trouble	Kroc Middle
717 Helfman	Jacob	7 Relative Solubility and pH of Household Chemicals	Castle Park Middle
719 Holland	Timothy	7 There is Something Different About the Water	School of the Madeleine
720 Horn	John	7 Fuel Cells and Power Generation	St. John of the Cross
722 Labra	Lisett	8 How Do Different Substances Affect the Boiling Point of Vinegar?	Preuss
723 Lowenhaupt	Andy	8 Got Corrosion?	School of the Madeleine
724 Martinson	Michael	8 Which Salt Makes Most Hydrogen Quickest?	Marshall Middle
725 Mayeski	Nicholas	7 Ways to Enhance Colors in Fire	Carlton Hills
726 Meier	Tyler	8 Acid or Base?	Sullivan
727 Rueda	Richelle	8 Do Different Kinds of Red Flowers Have The Same Pigments?	Peirce Middle
728 Thao	Kaopamee	8 Which Antacid Neutralizes the Best?	Montgomery Acdy.
729 Trovato III	Patrick	7 Rate of Sugar Crystal Growth	Blessed Sacrament
730 Ung	Sirena	8 Salt Concentration vs Electrical Conductivity	Preuss
731 Villanueva	Angela	7 Effect of Sugar Type on Carbon Dioxide Produced by Yeast	Preuss
732 Villanueva-Delan	Flora	8 Egg-Citing Osmosis	Sierra Madre Academy
733 Villegas	Stephanie	8 How Much Vitamin C?	de Potola Middle
734 Harvey	Robert	8 Electrifying Fruit	de Portola Middle
735 Hipp	Kyle	7 Vitamin C Content in Citrus Fruits	School of the Madeleine

Junior Division --- Computer Science

739 Becker	Ian	8 Is the Globalstar Satellite System Efficient?	Marshall Middle
740 McCambridge	Matthew	7 Random Access Memory of a Computer	Blessed Sacrament
741 Morgan	John	8 Computer Program to Monitor Nutritional Values	Julian Jr. High
742 Pham	Dat	8 Compression Utilities	Lewis Middle
743 Tarel	Michael	7 Calculating the Electrical Output of Wind and Tidal Power Sites	Hillsdale Middle
744 Verbael	Kevin	7 Internet for Free -- Could It Be?	St. Mary Star of the Sea

Junior Division --- Earth and Space Sciences

747 Thom	Hannah	8 The Elsinore Fault - A Threat to Julian?	Julian Jr. High
748 Wilkins	Gautam	7 Got Lost? Get Your Bearings	Lewis Middle
749 Wolters	Alexandra	8 Which Part of the Tornado's Vortex Is the Most Powerful?	St. Francis
750 Beck-Pancer	Lolly	8 Which Soil Surface Most Effectively Reduces Evaporation?	Muirlands Middle
751 Castro	Mabi	7 Effect of Particle Size on Brick Strength	Preuss
752 Crews	Geoffrey	8 Harmonic Resonance of Buildings	Kroc Middle
753 David	Mary	8 Salinity vs Heat Absorption in Water	Potter Jr. High
754 Dawson	Anna	7 Greenhouse Material vs Temperature	Julian Jr. High
755 Degurski	John	7 Can Static Electricity Power a Rocket?	Lewis Middle
756 Dettinger	Philip	7 Does Depth Affect Wave Speed?	Lewis Middle
757 DuBois	Daniel	8 Which Bag Will Receive the Most Wattage	Muirlands Middle
758 Economides	Elyse	7 A Firm Foundation-Mixing Sand and Water To Support Weight	Santa Fe Christian
759 Esquivel	Amanda	8 Rock Size vs Leakage	Preuss
760 Fisher	Travis	7 Melting Rate of Icebergs in Different Water Solutions	Julian Jr. High
761 Flinn	Andrea	8 Losing Ground? --- Take Control with Groundcover	St. Mary's Escondido
762 Fry	Alex	8 Coastal Beaches Are Not All Alike	Hillsdale Middle
763 Grimes	Timothy	8 How Tides Affect Wave Height	Marston Middle
764 Herber	Tauryn	8 Taking the Earth's Magnetic Pulse	Potter Jr. High
765 Jones	Kelsey	8 GPS Accuracy	Marshall Middle
766 Klima	Jessica	8 Is Erosion Eating Away Our Earth?	Muirlands Middle
767 McGrory	Lauren	8 Evaporation vs Heat	Muirlands Middle
768 Mull	Jessica	7 Do Different Ground Materials Change the Surface During Earth Movement?	Cajon Park
769 Negrón	Travis	8 Does the Shape of the Meteor Affect the Crater it Produces?	Marston Middle
770 Norde	Charmaine	7 Rates of Erosion	Castle Park Middle
771 Shearer	Hannah	8 Sunspots and Solar Rotation	Muirlands Middle
772 Stiso	Suzi	7 Effect of Temperature on Crystallization	Emerald Middle
773 Tejedo	Ivan	8 Tornadoes: Nature's Dark Side	Kroc Middle

Junior Division --- Engineering

775 Cazares	Steven	8 Does Size Matter?	Lewis Middle
776 Denlick	Eric	8 Which Tennis Racket is Most Powerful?	Pershing Middle
777 Clark	Daniel	7 Which Type Electronic Thermometer Gives a More Accurate Temperature?	Pershing Middle
778 Taylor	Krista	7 Which Wing Shape Produces Most Lift?	Holville Middle
779 Uy	Edric	8 Do Weights Affect the Flight of An Airfoil?	St. Mary Star of the Se
780 Levine	A. Eli	8 Flight of Different Colored Golf Balls	S. D. Jewish Academy
781 deAnda	Antone	8 Fly Like an Eagle	St. Peter's
782 Abadi	Jose	8 Evaporation Temperatures of Alcohol:	S. D. Jewish Academy

		Are They Linear?	
783	Abagyan Lily	8 The Quality of Heat Insulation of Different Materials	Muirlands Middle
784	Abuzaid Majed	8 Transporting Storm Drain Water and Wastewater	San Diego Islamic
785	Archuletta Justin	7 Will a Magnetic Car Go Farther Than a Wheeled One?	Cajon Park
786	Azouz Mohsen	7 Strength of Wood	San Diego Islamic
787	Badt Dustin	8 Spoilers' Effect on Car Performance	de Portola Middle
788	Batterson-Rossi Paul	8 The Weapon of The Ancients: Which Wood Works Best?	Independent Study Center
789	Batterson-Rossi Richard	8 Siege! Deciphering the Puzzle of Wheeled and Unwheeled Trebuchets	Independent Study Center
790	Bautista Gabriel	8 Which Boat Hull Floats the Best?	Muirlands Middle
791	Beal Carmen	7 Renewable Power Sources	HolyFamily
792	Bednarski Adelaide	7 Oozing Goo and Gravity	St. Peter's
793	Bettwy David	7 Comparing the Strength of Truss Bridge Designs	Lewis Middle
794	Bieler Joshua	8 Windpower	Soille S.D. Hebrew Day
795	Bigknife Elan	7 Does Wing Length Affect Flight Time?	Our Lady of Grace
796	Bittle Austin	8 Why Does a Crooked Suspension Cause a Car to Veer?	Standley Middle
797	Buckingham Kelly	7 Effect of Temperature on Air Pressure	Lewis Middle
798	Calabough Annie	8 Electromagnetic Fields of Metal Detectors	Pershing Middle
799	Carlson Lindsey	8 Sound Science	St. Pius X
800	Casilang Mark	8 Which Interior Color is Most Light Efficient?	St. Rita's
801	Ceravolo Monica	7 Building Materials from Recycled Paper	Blessed Sacrament
802	Clark Caroline	8 Flex and Weight Differences on Bridges	All Halows Academy
803	Closser Michael	8 Weight Placement --- Does It Really Matter?	Pepper Drive
804	Cole Petra	8 Comparison of Golf Club Faces vs Distance	Our Lady of Grace
805	Corley Jeremy	8 What's At The Core, Wound vs. Solid Core Golf Balls	Good Shepherd
806	Crail Erika	8 Airplanes: When Does a Wing Stall?	Rancho Del Rey Middle
807	Creveling Kristine	7 Can Foam be Used to Make Structural Lightweight Concrete?	Hillsdale Middle
808	Cruikshank Kimberly	8 Where Will the Softball Hit?	Lewis Middle
809	Cruz Josiah	7 Effect of Weight Placement on Bridge Design	Del Dios Middle
810	Cuevas Veronica	8 The Longer the Better?	Granger Jr. High
811	Dames Tad	8 Airfoil Damage and Its Effect on Lift Performance	St. Francis
812	Darwent Melissa	7 How Air Pressure Affects a Soccer Ball	Pepper Drive
813	Dawson Joshua	8 How Gravity Affects the Impact of a Basketball	Lewis Middle
814	DeWitt Craig	7 Electromagnetic Fields --- Bad to the Bone?	Our Lady of Grace
815	Dean Christopher	8 How Wing Shape Affects Glider Flight	Rincon Middle
816	Durkin David	7 Effect of Temperature on Solar Cells	Holy Family

817 Dwan	Kevin	8 Parachutes: Effect of Size and Shape	Rancho Del Rey Middle
818 Elizondo	Lisa	7 Radio Frequency Radiation Leaks in Microwave Ovens	Del Dios Middle
819 Erudaitius	Dimitry	8 Launching Paper Airplanes at Different Angles	Marshall Middle
820 Estes	Doug	7 Aerodynamics of Body Design	Julian Jr. High
821 Jones	Doug	8 Snow Making: Mountain Resorts Extending the Winter Sports Season	Julian Jr. High
822 Farmer	Ryan	8 Does Temperature Affect the Resilience of a Hockey Puck?	Pershing Middle
823 Felbeck	Florian	8 The Strength of the Bond Between Glue and Material	Muirlands Middle
824 Froedge	Stacy	7 Why Douglas Fir is Ideal for Construction	Emerald Middle
825 Garrie	Adam	8 Digital Divide: Comparison of Analog and Digital Sound Formats	Muirlands Middle
826 Gaytan	Daniel	7 Effect of Density on Glass Strength	National City Middle
827 Glosz	Ashley	8 Which Materials Conduct Ultrasonic Sound Best Underwater?	Marshall Middle
828 Gomez	Christian	7 Home/Car Alarm	Granger Jr. High
829 Haase	Kenneth	7 Effects of Earthquakes on Buildings	Pershing Middle
830 Hadji	Khalid	8 Water Absorption of Roofing Wood	San Diego Islamic
831 Hall	James	8 Which Bridge Type Holds the Most?	Pershing Middle
832 Haney	Sean	8 The Effect of Hull Design on Sailboat Speed	Muirlands Middle
833 Hardesty	James	7 Effect of Camera Setting on Photographs of Moving Fans	Potter Jr. High
834 Hardy	Kristin	8 SunRay: Experimental Electric Vehicle	School of the Madeleine
835 Harper	Richard	8 Catching a Wave: Parabolic Sound Dish Collection	Rhoades
836 Hassan	Abdulmalik	8 Domed vs Triangular Roofs: Which Saves the More Energy?	San Diego Islamic
837 Hassidim	Erin	8 Does Keeping Tennis Balls in Their Container Maintain Their Bounce?	Muirlands Middle
838 Haynsworth	Derek	8 Urethane Road Rash	WarrenWalker
839 Hidalgo	Jesahel	7 Space Mission 1.0: Descent Rate Back to Earth	Stella Maris Academy
840 Hilfiker	Joel	8 Does the Angle of the Airfoil Control the Weight Lifted?	Holtville Middle
841 Hirschbein	Jonathan	8 Which Golf Ball is Best?	S. D. Jewish Academy
842 Holcomb	Keri	8 Rockets Rising: Five Fluids in Flight	Oak Grove Middle
843 Hong	Vu	7 Which Laser Pattern Secures an Area Best?	Preuss
844 Horowitz	Steven	8 Concrete Strength vs Water Content	Marshall Middle
845 Hoyt	Timothy	7 Arrow Fletchings Make a Difference	Hillsdale Middle
846 Fanelli	Michael	7 Mono-Hull vs. Multi-Hull	Oak Grove Middle
847 Jonesrebandt	Brendan	7 DC Motor vs Extraction of Excess Energy	Potter Jr. High
848 Karnes	Ryan	8 Which Hull Planes Fastest?	Muirlands Middle
849 Keophachanh	Karen	8 Is There More Electricity on Rainy Days?	de Portola Middle
850 Kintzele	William	7 Resist the Force	Lewis Middle
851 La Fontaine	Steven	8 Are Solar Panels or Batteries More Efficient in Miniature Cars?	St. Columba

852 Lamont	Sean	7 Performance of Metal Baseball Bats	St. Peter's
853 Lauria	Blake	8 Golf Balls: Impact Velocity vs Distance	Rio Seco
854 Lawrence	Jesse	7 Critical Wing Area for Launching an Airplane	CCPA
855 Lee	Marcus	7 Golf Balls: Bounce and Distance	Pershing Middle
856 Long	Zachary	7 Which is Fastest? Long, Medium or Short Skateboards	Pershing Middle
857 Lozano	Richie	8 Airplane Flight	Pershing Middle
858 Maidhof	Dean	8 Luckies, Black Panthers or Hawks: Which is the Fastest Bearing?	Marston Middle
859 Malek	Marianne	8 Wood vs. Metal	St. Mary's Escondido
860 Marinelli	Bethany	8 Accurate Distance Determination: A Comparison of Optical and Laser Methods	St. Francis
861 Marquez	Jordan	8 What Paper Airplane Can Fly the Farthest With the Same Design?	Marston Middle
862 Matthews	Kathryn	7 Blocking Radio Waves	Our Lady of Grace
863 Mattrey	Dorian	8 Study of Coronary Calcium Detection using a Mechanical Heart Simulator	Mt. Everest Academy
864 May	Brad	8 Will Different Substances Conduct Electricity Differently?	Pershing Middle
865 McClure	Brian	8 Measuring Energy: Solar vs Sunlight	Lewis Middle
866 McCormick	Christopher	8 Can Electromagnets Propel A Model Vehicle?	Carlton Oaks
867 McFeely	Thomas	8 Which Baseball Bat Hits a Baseball Farthest?	Marshall Middle
868 McGarry	Pat	8 Which Insulation Works Best?	St. Columba
869 McIntosh	Lane	7 What Material Best Absorbs Sound?	Santa Fe Christian
870 Medigovich	Jill	7 Capture the Sun	Our Lady of Grace
871 Meinhardt	William	7 Does a Golf Ball's Bounciness Influence the Distance it Travels?	Lewis Middle
872 Mercado	Traci	8 Solar Cell	Holy Family
873 Miller	Mitchell	8 Temperature vs Distance in Golf Balls	Cajon Park
874 Milo	Jay	8 Which Hull Design Moves Through Water The Easiest?	Rincon Middle
875 Moore	Brandon	7 Taking Turns: How Rotor Turns Increase Performance	Santa Fe Christian
876 Muller	Christopher	8 Heat Capacity of Various Liquids During Dry Ice Sublimation	Rincon Middle
877 Murray	Daniel	7 Footballs: Air Pressure vs Distance	Pershing Middle
878 Neal	Aaron	8 Does the Weight of a Plane Affect Its Glide ratio	Muirlands Middle
879 North	Zachary	8 Hovercraft Performance on Variable Surfaces	Rincon Middle
880 Nunez	Yerica	7 Effect of Object Shape on Fall Rate in Liquid	Preuss
881 Padilla	Vincent	7 Water Works!	SCPA
882 Palmes	Anthony	8 Which Clarinet Reed has the Best Sound?	Wangenheim Middle
883 Parrott	Michael	7 Which Sports Balls Freefall and Roll the Fastest?	Pershing Middle
884 Passino-Gorman	Erin	7 Strengths of Different Type of Wood	Coleman Prep.
885 Perdew	Sara	7 Which Truss Bridge Holds the Most Weight	Nazareth
886 Perez	Maricela	8 Hydroelectricity as a Form of Consumable	St. Michael's Academy

		Energy	
887 Perkins	Nicholas	8 Sound Frequencies Vs. Sound Insulation	Rincon Middle
888 Pino	Guillermo	8 Solar Cell vs Battery	Montgomery Acdy.
889 Rehm	Katie	8 The Effect of Color on Energy Absorption in Photovoltaic Cells	Muirlands Middle
890 Reserva	Alfred	8 Sources vs Voltage Output	Preuss
891 Rhoads	Christian	7 Spur Gears in Motion	Lewis Middle
892 Richardson	Aaron	7 Electromagnetic Induction	Cajon Park
893 Rizk	Joseph	7 Catapult Vs. Trebuchet	St. Luke's Lutheran
894 Rogers	Christopher	7 Wing Span Effect on Model Plane Glide Distance	Meadowbrook Middle
895 Rudolph	Zachary	8 Best Shock Absorber	S. D. Jewish Academy
896 Ryan	Vanessa	8 Which Type Artificial Light Will Produce the Most Power?	Peirce Middle
897 Sabat	Andrew	7 Which Ball Goes the Fastest?	Pershing Middle
898 Sabb	Lauren	7 Magnetic Levitation	Blessed Sacrament
899 Safi	Ehab	7 How Long Batteries Last in Different Environments	San Diego Islamic
900 Saraceni	William	8 Power of Windmills	Pepper Drive
901 Schaffroth	Annika	7 Effect of Film Storage Temperature on Photograph Quality	Hillsdale Middle
902 Schultz	Danielle	8 Gas Station Air Pump Gauges	St. Mary's Escondido
903 Shoemaker	William	7 Insulation	Santa Fe Christian
904 Silvas	Vanessa	8 Viscosity	Kroc Middle
905 Sison III	Al	7 Effect of Blade Design on Windmill Output	Mar Vista Middle
906 Smith	Grant	8 Weather's Effect on Football Flight	Marshall Middle
907 Spinks	Matthew	8 Bat Composition --- Does It Make a Difference?	St. Mary's Escondido
908 St. Hilaire	Lauren	8 Effect of Rebar Placement on Concrete Strength	Del Dios Middle
909 Sullivan	Michael	8 Average EMF Level of School Computer Screens	Marshall Middle
910 Thomas	Asia	7 Temperature vs Velocity in Lava	Kroc Middle
911 Thomas	Taylor	7 Nitinol Wire Advantages	Peirce Middle
912 Toby	Justin	7 What Type Golf Ball Flies the Farthest?	Pershing Middle
913 Treadwell	Oliver	7 Soaring Eagles, Buzzing Hornets	Coleman Prep.
914 Treat	Daniel	7 Which Bridge Type Supports the Most Weight?	St. Francis
915 Vang	Kelly	8 Wing Length vs Distance	Marshall Middle
916 Vaughan	Elizabeth	8 Which Firewood Burns Longest?	Prospect Ave.
917 Vavra	Cindy	8 Which Type Brick is Strongest?	Rincon Middle
918 Vazquez	Nancy	8 Distance vs Rebound in Rubber Bands	Kroc Middle
919 Wanetick	Colette	8 Camera Obscura	Muirlands Middle
920 Wiegand	Paul	8 Which Bridge Design is Most Efficient?	Marshall Middle
921 Wilson	Heather	8 Insulator vs Heat Retention	Marshall Middle
922 Witowich	Nolan	7 Can a Boat Move without Wind, Oars, or a Propeller?	St. Francis
923 Wright	Riley	7 Weather Conditions' Effects on Model Rocket Flights	Oak Grove Middle
924 Zech	Nick	7 Optimizing Thrust: RPMs vs Propeller Size	St. Mary's Escondido

925 Zimmerlink	Mikie	8 Which Type of Metal is the Strongest?	Harritt
926 deAnda	Carly	7 Up, Up and Away	St. Peter's
927 Washizuka	Sanabu	8 Wind's Effect on the Temperature of an Object	Pershing Middle
928 Preciado	Elizabeth	8 Tin or Aluminum?	Montgomery Acdy.
929 Challman	David	8 Various Structural Differences of Model Rocket Nose Cones	St. Kieran's
930 Teschler	Kathleen	7 Which Type Swim Cap Creates Less Drag?	Hillsdale Middle

Junior Division --- Environmental Sciences

932 Alexander	Kathryn	8 Greywater vs Tapwater	Correia Jr. High
933 Babcock	Britton	7 Bye-Bye Whitefly	Stella Maris Academy
934 Bennett	Julius	8 Detergent's Effect on Embryonic Development of Sea Urchins	Keiller Middle
935 Bennington	Keri	8 Do Natural Plastics Decompose Faster Than Petroleum Plastics?	Rio Seco
936 Blair	Dillon	8 Effect of Pollution on Brine Shrimp	Del Dios Middle
937 Bliss	Gregory	7 Plant Stress, The Effects of Automobile Exhaust on Plant Growth	Nazareth
939 Brent	Ryan	7 Beach Pollution and Water Outlets	St. John's
940 Caldwell, Jr.	Ray	7 Aqua Fuel Generator	Holy Family
941 Campbell	Christopher	7 Will Desalinization Help the Salton Sea?	Blessed Sacrament
942 Cornette	Michael	8 Wildfire Landscaping: Which Plants are Safest?	Julian Jr. High
943 Couey	Caitlin	7 Worms Ate My Homework	SCPA
945 Cross	Jessica	8 Pollution Resistant Plants	Holy Family
946 Cvetkovik	Doug	8 Does UV Radiation Affect the Strength of Fishing Line?	Rincon Middle
947 Dahl	Aundrea	7 Salt Concentration in Estuary Water	Rhoades
948 Daniels	David	8 Playing with Fire	Lewis Middle
949 DeWindt	Nathan	8 Weathering on Woods	Rincon Middle
950 Depner	Julie	8 Lakes Dixon and Miramar: Algae Bloom in 2001?	Del Dios Middle
951 Edgar	Jeffrey	8 Acid Rain: What are the Effects?	Rincon Middle
952 Fleming	Timothy	8 Comparison of Macro-Invertebrate Diversity	Rincon Middle
953 Go	Erika	7 Stove vs Solar Oven: Which Gives Better Performance?	Montgomery Middle
954 Gresham	Peter	8 Are Sea Walls Effective in Preventing Erosion?	Rhoades
955 Harper	Ashley	8 Oil Spill Cleanup	Wangenheim Middle
956 Hixon	Robbie	8 Houses on Faults: Is There an Effect?	Muirlands Middle
957 Hollenbeck	Annalisa	7 Can Limestone Help Protect Pine Trees from Acid Rain?	Julian Jr. High
958 Jacobs	Brittony	8 Start Your Engines	Lewis Middle
959 Katkov	Reid	8 Can Homemade Pesticides Control California's Eucalyptus Pest?	Rhoades
960 Kennedy	Dennis	8 Effectiveness of Pool Covers	Marshall Middle
961 Krenn	Mark	8 Which Water Qualities are Better: City or Well Water?	Marston Middle

962 Landaal	Tiffany	8 Alternative Path Surfaces for Trails	Hillsdale Middle
963 Lang	Linda	7 Effect of Salinity on Mosquito Larvae	Del Dios Middle
964 Lemasters	Whitney	8 How Much Sediment Will Remain?	de Portola Middle
965 Lowder	Kimberlee	7 What's the Water Quality of the San Diego River?	Pershing Middle
966 Mayer	Kristine	8 Erosion Control -- Comparative Methods	Marshall Middle
967 McFall	Kyle	8 Varying Compost Nutrient Levels	Julian Jr. High
968 Mikha Jr,	Sabah	8 Oil Spills -- What a Mess	St. Mary Star of the Sea
969 Mikulka	Kristine	8 The Heat is On	St. Mary Star of the Sea
970 Monsalvo	Alva	7 Oil Polluted Water vs Grass Growth	Preuss
971 Newton	Toj	7 Does Use of Chemicals During Crop Production Kill Freshwater Crustaceans?	Sullivan
972 Nicastro	Graham	8 Is Purified Wastewater Safe to Drink?	Marshall Middle
973 Parker	Lyndsey	8 Weather vs San Diego Beach Bacterial Levels	Marshall Middle
974 Phalan	Elizabeth	7 Cleaning Methods Used On Oil Spills	Prospect Ave.
975 Putz	Erik	7 Are San Diego Beaches Polluted?	Nazareth
976 Ritter	Lily	7 What Do Santee Residents Recycle?	Cajon Park
977 Ross	Corinne	8 Total Coliform Counts Along a Sierra Watershed	Hillsdale Middle
978 Rothstein	Sindie	8 Water Quality After a Storm	Wangenheim Middle
979 Savo	Julia	7 The Living Earth	Julian Jr. High
980 Savvas	Michael	7 Effect of UV Radiation on Sea Urchin Embryonic Development	Mann Middle
981 Selman	Ryan	8 240 Degrees Solar	Lewis Middle
982 Serhan	Nicole	8 Temperature vs Energy Use and Conservation	Marshall Middle
983 Serino	Rachel	7 Is the Salton Sea Contaminated?	Sacred Heart
984 Serino	Peri	7 Qualities and Applications of Water in the Imperial Valley	Sacred Heart
985 Sosnowski	Robert	7 Does Limestone Reduce Acid Rain's Effect on Spruce Trees?	St. Mary Star of the Sea
986 Spasojeovich	Haleigh	7 Vegetation to the Rescue	Nazareth
987 Tejada	Francisco	7 What Is the Best Way to Purify Water?	Del Dios Middle
988 Trujillo	Carlye	8 Energy from the Ocean: Solar Water Electrolysis	St. Mary's Escondido
989 Valen	Michelle	7 Tijuana Estuary: Salt vs Fresh	St. Pius X
990 Walker	Danielle	8 Differences between Solar and Gas Water Heaters	All Hallows Academy
992 Whitaker	Nathan	7 Effects of Fertilizers on Our Oceans	Blessed Sacrament
993 Wohlgernter	Chaviva	8 Is There Bacterial Danger in Lake Miramar?	Soille S.D Hebrew Day
994 Zondler	Billy	8 What's Killing Fish at the Salton Sea?	St. John's
995 Marcus	Rebecca	7 Which Soap Works Best Cleaning Oil from Animal Fur?	Lewis Middle

Junior Division --- Mathematics

1000 Aceves	Jessica	7 Home Team Advantage	St. Pius X
1001 Balmert	Emily	8 Impact of Thermal Expansion on Sea Level	Hillsdale Middle
1002 Cardamenis	Alexander	8 Does Time of Day Affect Baseball	Wangenheim Middle

1003	Drummy	Megan	Players' Statistics? 7 Mathematical Probability and Games of Chance	School of the Madeleine
1004	Neeley	Matthew	8 When Does a Quarterback Peak?	St. John's
1005	Pack	Javid	7 Mathematical Analysis of the Game of 24	Lewis Middle
1006	Roetzheim	Regina	7 Buddy Can You Spare a Quarter?	Oak Grove Middle
1007	Waxenberg	Jake	8 Predicting the Stock Market	S. D. Jewish Academy

Junior Division --- Medicine and Health

1013	Adamson	Gregory	8 Do Wind Instruments Improve Inspiratory Capacity?	Marshall Middle
1014	Bhaga	Arisha	8 Bond Strength between Dental Porcelain and Non-Precious Metal	Wangenheim Middle
1015	Bolduc	Genevieve	8 Effect of Sight and Smell Deprivation on Taste	de Portola Middle
1016	Burns	Stefanie	8 Does Morphine Affect the Heart Rate of a Trauma Patient?	Marston Middle
1017	Burton	Brittany	8 Flexibility Correlation between Active Mothers and Daughters	de Portola Middle
1018	Chinn	Jennifer	8 Won Ton of Sunscreens	Rhoades
1021	Dagher	Lane	7 Bone Repairs with Orthopedic Appliances	Nazareth
1022	Deiter	Kevin	8 Correlation Between Foot Size and Swimming Speed	Stella Maris Academy
1023	Duarte	Dulcemaria	8 The Revealing Eye	St. Mary Star of the Sea
1024	Durant	Julianna	7 Effects of Synthetic Growth Hormone	Sierra Madre Academy
1025	Fisher	Weston	8 Eating Habits of Girls and Boys	Julian Jr. High
1026	Gage	Austin	7 Hair Growth: Human vs Dog	School of the Madeleine
1027	Goncalves	Emily	8 Battle of the Lungs	Del Dios Middle
1028	Gonzalez	Tara	8 Lung Capacity vs Wind Instruments	Marshall Middle
1029	Goodman	Adam	8 Are You Being Dominated?	Soille S.D. Hebrew Day
1030	Hines	Marche'	8 Balance: Who Has It?	Del Dios Middle
1031	Hodges	Derek	8 Lactic Acid Tolerance in Swimmers	Del Dios Middle
1032	Jones	Rodney	8 Is There a Bridge Between Epidural Anesthetic and A.D.D.?	St. Peter's
1033	Kroll	Andrew	7 Which Beverage Stains Your Tooth Enamel The Most?	Santee
1034	Lampkin	Erica	7 Noggin Joggin'	St. Peter's
1035	Lefever	Jasmine	8 Is it Safe to Breathe Secondhand Smoke?	Del Dios Middle
1036	Leidiger	Kate	7 How Do Stimulants Used for ADD/ADHD Affect Athletic Performance?	Blessed Sacrament
1037	Levin	Rebecca	7 Will Antioxidants Inhibit Epithelial Cell Death after UVB Exposure?	Rhoades
1039	Maloy	Kevin	8 Which Hand is More Sensitive to Touch?	Stella Maris Academy
1040	Mann	Katie	7 Caffeine: Most Popular Stimulant	All Hallows Academy
1041	Miller	William	7 Do Allergies Affect the Sense of Smell?	Pershing Middle
1042	Munro	Fay	7 A Scent for Danger	Oak Grove Middle
1043	Murphy	Dayna	7 Birth Weight vs Long-Term Growth	Pearce Middle
1044	Peltin-Brown	Chelsea	7 Is Your Sunscreen Really Working?	Nazareth
1045	Pendarvis	James	8 Depth Perception vs Age, Gender and Visual Acuity	La Mesa Middle

1046 Powell	Frankie	8 Effects of Exercise on Short Answer Test Scores	Stella Maris Academy
1047 Reitman	Becky	8 Blood Pressure Monitors: Is the Truth Being Told?	Soille S.D. Hebrew Day
1048 Reyes	Christine	8 Effect of Food and Drinks on Tooth Mass	Wangenheim Middle
1049 Safrin	Emily	7 Hairy Situation	SCPA
1050 Santiago	Claudia	8 Effect of Soda on Bone Density	National City Middle
1051 Saylor	Katherine	7 Music's Effect on Heart Rate and Blood Pressure	Lewis Middle
1052 Seeger	Kaitlin	7 Altitude vs Oxygen Level in the Blood	Potter Jr. High
1053 Stakelum	Derek	8 Effect of Video Games on Heart Rate	School of the Madeleine
1054 Stanitsas	Elaena	8 Physical Fitness: Dancers vs Athletes	Marshall Middle
1055 Tinker	Shelby	8 Does Foot Size Determine Height?	St. Peter's
1056 Victoria	Erick	7 Loud Noises vs Improvement in Vision	Holy Family
1057 Ward	William	8 Blood Sugars: Pump vs Injection	Rancho Del Rey Middle
1058 Yanni	Patrick	7 Got Heartburn?	St. Mary's
1059 Yorck	Peter	7 Detecting Red-Green Deficiency	Good Shepherd
1060 Zawadzki	Marianne	8 Immunophenotyping Pre and Post-Menstrual Women	Lewis Middle
1061 Smith	Lamar	8 Do Video Games Affect Heart Rate?	Keiller Middle
1062 Lewis	Katie	8 Temperature's Effect on Arch Height and Energy Level	Marshall Middle

Junior Division --- Microbiology

1065 Mariam	Syeda	7 Which Disinfectant Kills Bacteria Best?	Wilson Acdy.
1066 Alvarez	Ariana	7 Toxic Effects of Mushrooms on Fertilized Sea Urchin Eggs	Memorial Academy
1067 Anaya	Evelyn	8 Effect of Detergent on Sea Urchin Embryos	Keiller Middle
1068 Andersen	Anna	8 Bacterial Contamination of the Ocean	Muirlands Middle
1069 Bellatti	Lauren	7 Do You Know What's Lurking in Your Tea?	Hillsdale Middle
1070 Bigsby	Jelani	8 To Clot or Not to Clot	Keiller Middle
1071 Bivins	Jene'e	8 Which Cleaning/Hygiene Product is Most Effective?	Keiller Middle
1073 Carry	Kevin	7 Growth of Mouth Bacteria in Bottled Water	Blessed Sacrament
1074 Chavez	Myra	8 Will Harbor Water Affect Sea Urchin Development?	Keiller Middle
1075 Chu	Simon	8 Natural vs Synthetic Medication: Which Performs Best?	St. John's
1076 Colbourne	Nadia	8 Luminescence Bacteria	Keiller Middle
1077 Cota	Steven	7 Household Pests	School of the Madeleine
1078 Coulson	Hilary	7 E. coli in Your Cola	St. Pius X
1079 Daghlawi	Samy	7 Bacteria in Keyboards	San Diego Islamic
1080 Delgado	Magaly	8 Who Knows Best: Doctors or Moms?	Gompers Secondary
1081 Dick	Virginia	8 Can Clay Flocculate Mitigate a Harmful Algae Bloom?	Correia Jr. High
1082 Dougherty	Nancy	8 Which Beach Has the Most Bacteria?	Peirce Middle
1083 Dutt	Shelley	8 Effects of Different Type Waters on Algae Growth	St. Mary's

1084 Ebro	Krissel	8 Bread Molds	Wangenheim Middle
1085 Elmore	Sarah	7 Fungus Among Us	Sacred Heart
1086 Emr	Kevin	7 Can You Really Trust Your Disinfectant?	Santa Fe Christian
1087 Estrada	Irene	8 Does An Apple a Day Keep the Doctor Away?	SCPA
1088 Fleischaker	Evangeline	7 Bacterial Resistance to Disinfectants Prevented by Use of Rotation	Diegueno Jr. High
1089 Gigliotti	Bobbie	8 Antibiotic Resistant Bacteria	Carlton Hills
1090 Ginsburg	Jodi	8 How Effective is Bleach?	S. D. Jewish Academy
1091 Harney	Jason	7 Bacteria Busters: Which One Is Better?	St. Francis
1092 Harrod	Samantha	7 Open Wide and Look Inside	Hill Creek
1093 Hernandez	Fernando	7 Chili As a Meat Preservative	National City Middle
1094 Herrmann	Kelsey	7 Parsley, Bacteria? What You, the Consumer, Should Know	Carlton Oaks
1095 Heung	Eric	8 Do Natural Remedies Inhibit Normal Mouth Flora and Mold?	Muirlands Middle
1096 Hira	Syeda	8 Perception vs. Actual Cleanliness of Common Areas	Wilson Acdy.
1097 Hoger	Gwendolyn	7 Effectiveness of Gels vs Liquid Soaps in Removing Bacteria	Rhoades
1098 Holmberg	Sanna	8 Antibacterial Soaps - Do They Really Work?	Muirlands Middle
1099 Hull	Brad	8 Bac-Terminator	Pershing Middle
1100 Jordan	Michelle	8 Microwaves vs Bacteria in Sponges	St. Rita's
1101 Judd	Megan	7 Are Dog Kisses Healthy?	Del Dios Middle
1102 Kelly	Ruth	8 Evidence of Coliform Bacteria in Santee's Lakes and Rivers	Carlton Oaks
1103 Khavarian	Christopher	7 Effect of UV Light on Number of Bacterial Colonies	Preuss
1104 Kuhn	Colleen	7 Is Alcoholic or Non-Alcoholic Mouthwash More Effective?	Blessed Sacrament
1105 Lenz	Dakota	8 Is Water from School Drinking Fountains Safe to Drink?	Rhoades
1107 Lora	Stephanie	8 Does Mouthwash Really Work?	Keiller Middle
1108 Lucia	Chelsea	7 Effects of Essential Oils on Bacteria	Julian Jr. High
1109 Moore	Amy	8 Does Chewing Gum Reduce Bacteria?	Pershing Middle
1110 Newman	Alexa	8 As Safe as Milk	Standley Middle
1111 Obraztsova	Olga	8 Is there Life in a Barren Environment? A study of Bacteria inside Rocks	Carmel Valley Middle
1112 Othman	Lina	7 How Safe is the Water You Drink?	Rancho Del Rey Middle
1113 Paris	Adrian	7 Sick of School? or...Sick from School. Air Quality in Classrooms	Hill Creek
1114 Ridgway	Tessa	8 Antimicrobial Properties of Herbs and Spices	Julian Jr. High
1115 Riney	Cairie	7 Are There Antibiotic Resistant Bacteria in Your Household?	Julian Jr. High
1116 Robledo	Rosalinda	7 Effect of Drinking Tea in Daphnia Heart-Rate	National City Middle
1117 Sampson	William	7 Growth Trends in Household Bacteria	Nazareth
1119 Skahill	Greg	7 Are We Safe Eating Out?	Pershing Middle
1120 Tarabishi	Farah	8 Effect of Dirt on Growth of Bacteria from Dog Saliva	San Diego Islamic

1122	Tran	Paula	8	How Humidity Affects the Growth of Mold	Wangenheim Middle
1123	Trieu	Tiffany	8	Colors of Mold: Inside and Outside the House	Wangenheim Middle
1124	Trinh	Thien-Quang	8	Bacteria: Invisible Classmates	Muirlands Middle
1125	Williamson	Brian	7	Effects of Chlorine on Bacteria Growth	Blessed Sacrament
1126	Cox	John	8	Mission Bay Contamination	Stella Maris Academy
1127	Borree	Megan	8	Is It Safe to Swim and Play in Mission Bay?	Lewis Middle
1128	Aranda	Monserrat	8	Natron Before and After Ancient Egypt	Gompers Secondary
1129	Taylor	Reginald	8	Effect of Ethanol on Sea Urchin Fertilization	Mann Middle

Junior Division --- Physics

1131	Adam	Steven	8	Heat Wave	St. John's
1132	Arriola	Jennifer	8	Impact of Temperature on Solar Power	Rancho Del Rey Middle
1133	Bailey	Jeffrey	8	Ball Weight and Speed vs. Pins Down	Marshall Middle
1134	Barlow	Kyle	7	Temperature's Effect on Resistance	Peirce Middle
1135	Bauman	Meghan	7	Effects of Temperature on a Ball's Bounce	Peirce Middle
1136	Beatty	Amanda	8	Which Size Soccer Ball Is Easier to Chip?	Marshall Middle
1137	Blahnik	Andrew	7	Rise and Fall of Submarines	Our Lady of Grace
1138	Bretney	Kevin	8	Friction and the Roller Coaster	School of the Madeleine
1139	Briggs	Jack	8	The Effects of Lubricants on Friction	Muirlands Middle
1140	Cadman	Colin	8	How Does Temperature Affect Liquid Flow?	Muirlands Middle
1141	Cater	Jennifer	8	Media and Wavelength Effect on Refraction	St. John's
1144	Codina	Ryan	8	Small vs. Large Diameter, Which is Faster?	Montgomery Acdy.
1145	Cox	Thomas	8	Bat Speed: How Much is Enough?	Marshall Middle
1147	Douglas	Briten	8	Effect of Wind Speed on Lift	Rincon Middle
1148	East	Alexandra	8	A Study of Musical Notes	SCPA
1149	Edwall	Chuck	8	Does the Degree Influence the V?	Lewis Middle
1150	Feldman	Eric	8	Effect of Angle of Ascent on Bike Jumping Distance	Marshall Middle
1151	FitzPatrick	Allison	7	Saving Money by Putting Water in Your Pool	All Hallows Academy
1152	Fleury	Keith	7	Drum Tuning	Pershing Middle
1153	Gannon	Jamie	7	How Does Air Pressure Affect A Ball's Bounce?	School of the Madeleine
1154	Gilbert	Megan	8	Coils	Holy Family
1155	Gombar	Sarah	8	Does the Surface Area Striking an Object Affect Distance Traveled?	St. Mary Star of the Se
1156	Grasso	Dana	8	Black Light, Cool Heating	St. Peter's
1157	Gray	Michael	8	Effect of Temperature on Model Rocket Performance	Santa Sophia Academy
1158	Grinstein	Jonathan	8	Dynamics of Soap Films	S. D. Jewish Academy
1159	Griswold	Danielle	7	Which Is Easier to Hit: A Baseball or a Softball?	Pershing Middle
1160	Haines	Matthew	7	Effects of Heat Sources on Cooling Rate	St. Pius X

1161	Hannah	Colby	8	The Effect of Air Pressure on an Aluminum Can	Marston Middle
1163	Henkel	Hilary	8	Boats and Water Displacement	Montgomery Acdy.
1164	Hess	Danny	7	Magnetism and Temperature	SCPA
1165	Hoang	James	8	Effect of Size and Shape on Speaker Volume?	Wangenheim Middle
1166	Ibarra	Marisela	8	Effect of Number of Teeth on Front Gear on Distance	Preuss
1167	Ingalls	Jessica	8	Solar Cells: Can Amorphosis Outperform Polycrystalline in LowLight Conditions?	Carlton Oaks
1168	Ingrum	Elizabeth	8	Air Pressure vs Soccer Balls	Marshall Middle
1169	Jetton	Matthew	8	Are Everyday Liquids Paramagnetic?	Julian Jr. High
1170	Kandinov	Leonid	8	Effect of Humidity on Static Electricity	Pershing Middle
1171	Kaye	Aaron	8	Temperature's Effect on Bouncing Ball	Marshall Middle
1172	Kinder	Hans	7	Hearing: Better on the Mountain or at Sea Level?	Julian Jr. High
1173	Kopitzke	Mark	7	Does Velocity Affect Gravitational Force on an Object?	Sullivan
1174	LaRue	Blake	7	Rollercoasters: The Scoop on the Loop	Meadowbrook Middle
1175	Lambert	Roxy	8	Tracing the Magnetic Fields of Different Magnets	Muirlands Middle
1176	Lara	Alex	8	Effect of Cork's Motion on Thickness of Liquid	Preuss
1177	Leonard	Ryan	7	Fluid Density and Distance Traveled	Lewis Middle
1179	Lewis	Roger	8	Effect of Color on Water Evaporation	All Hallows Academy
1180	Lieberman	Or	8	Interferometry Vibrations of Moving Objects	S. D. Jewish Academy
1181	Lindenberger	Sean	7	Why Do Golf Balls Have Dimples?	La Jolla Country Day
1182	Lomez	Alejandro	7	Effect of Temperature on Guitar Strings	St. Mary's Escondido
1183	Lowenhaupt	Michael	8	Turbulent Flows	School of the Madeleine
1184	Lucas	Taylor	7	You Need Grip or You Slip	Pershing Middle
1185	Mafong	Tyler	8	Catapult Leverage	St. Pius X
1186	Maloney	Chryssa	7	Heat vs Viscosity	Potter Jr. High
1187	Manion	Katie	7	Bubbles	St. Mary Star of the Se
1188	Manjarrez	Brett	7	Heat-Absorbent Colors	Pershing Middle
1189	Martinez	Elza	7	Effects of Various Embouchures on Clarinets	Emerald Middle
1190	Matusov	Yuri	8	Faraday Ripples - Formation and Patterns	Muirlands Middle
1191	McCosh	Richard	8	Why Does the Arc Rise?	Marston Middle
1192	McKenna	Kate	7	Get the Point?	Sierra Madre Academy
1193	McLin	Donnie	7	Which Design of Electromagnet Works Best?	Oak Grove Middle
1194	Morse	Heidi	8	Stress and Strain	Holtville Middle
1195	Morton	Chris	7	I Can See Clearly Now!	WarrenWalker
1196	Nguyen	Philong	8	Effect of Surface Impact on Number of Ball Bounces	Preuss
1197	Nguyen	Natalie	7	Analysis of the Bed of Nails	Prospect Ave.
1198	Noonan	James	8	Which Liquid Has the Most Surface Tension?	St. Mary Star of the Se
1199	Noquez	Tori	8	Light Refraction vs Solution Density	Marshall Middle
1200	Poling	Matthew	7	Trebuchet	Oak Grove Middle
1201	Pollack	Bridgette	7	The Best Conductor of Electricity	St. Pius X

1203	Pritzker	George	7 Mechanical Advantage of Levers in Mousetrap Cars	La Jolla Country By
1204	Profeta	Glendale	8 Does Straw Length Have an Effect When Making a Spray?	Montgomery Acdy.
1205	Pruter	Chris	8 Having a Ball At Any Temperature	Rhoades
1206	Ream	Eric	8 Physics of Baseball: Optimum Bat Weight vs Age	St. John's
1207	Reeves	Randolph	7 Projectile Size vs Distance in a Trebuchet	PeirceMiddle
1208	Ritter	Jonathan	8 Effect of Rocket Size on Drag	Marshall Middle
1209	Rose	Amber	7 UV and Fluorescent Black Light	Kroc Middle
1210	Russell	Rebecca	7 Effects of Dispersion and Scattering on the Green Flash	Correia Jr. High
1211	Ryden	Rebecca	8 Measuring Speed of Heat Through Selected Metals	Del Dios Middle
1212	Sauer	Allison	7 That's the Way the Ball Bounces	Lewis Middle
1213	Schaufus	Tatsuo	8 Launch Ramp Angle vs Distanæ Traveled	Preuss
1214	Schweizer	Andrew	8 The Wrap about Electromagnets	de Portola Middle
1215	Shirazi	Alister	7 Friction vs Speed	Kroc Middle
1216	Smith	Stephanie	7 Does a Baseball Really Need Those Stitches?	Del Dios Middle
1217	Soto	Alan	8 Doppler Effect and Sound Intensity	Wangenheim Middle
1218	Tarver	Ryan	8 Friction: Most Dangerous Surface to Drive a Car	Peirce Midle
1219	Tatz	Shaun	7 Laser Distortion	Pershing Middle
1221	Valdez	Larry	8 Speed of a Marble in Vegetable Oil	Preuss
1222	Welch	Robert	7 Bottle Rocket Acceleration	Kroc Middle
1223	Whyte	Rob	8 Does the Material and Shape of an Object Affect How It Floats?	Muirlands Middle
1224	Williams	Shayla	7 Heat Conduction	Blessed Sacrament
1225	Zweig	Rachel	8 How Distance Relates to the Appearance of Height	Muirlands Middle

Junior Division --- Zoology

1232	Abendschein	Julie	8 Does Mice Behavior Change with the Phases of the Moon?	Marshall Middle
1233	Belsky	Joey	8 Monarch Butterflies Infected with Neogregarian Protozoan Spores	Carmel Valley Middle
1234	Birditt	Stephanie	8 Which Neon Color are North American Hummingbirds Attracted To?	Rincon Middle
1235	Campbell	Kristen	8 Which Food Do Ants Like Best?	Muirlands Middle
1236	Castellano	Amanda	8 Pesticide vs Daphnia's Heart Rate	Wangenheim Middle
1237	Catlin	De'Schzunell	8 Effect of Temperature on How Long Mealworms Remain as Pupae	Preuss
1238	Chou	Cynthia	7 Brine Shrimp (Artemia Salina)	Pershing Middle
1239	Colburn	Ashley	8 Gender vs Weight Gain in Puppies	Potter Jr. High
1240	Comba	Natalie	8 Over-The-Counter Drugs Effect on Ants' Tunneling	Peirce Middle
1241	Crosswhite	Adam	7 The Effect of Barometric Pressure on Egg Production	Julian Jr. High

1242	Csaszi	Andrea	7 What's the Buzz? Honeybee Attraction to Different Sugar Concentrations	St. Francis
1243	Curtis	Kelli	8 Do Dolphins Have Mood Swings?	Marshall Middle
1244	Dalton	Kurt	7 Food Selection in Colobus Monkeys	Julian Jr. High
1245	Day	Graham	7 Effects of Salinity on Brine Shrimp Survival	La Jolla Country Day
1246	De La Cruz	Kayleigh	7 How To Treat Your Dog	Coleman Prep.
1247	Eastman	Kate	7 Edurance of Different Breeds of Horses	Potter Jr. High
1248	Ebeling	John	7 What Causes a Trout to Rise to a Fly?	Blessed Sacrament
1249	Eldred-Cohen	Colin	7 Color Change in Chameleons	SCPA
1250	Gholizadeh	Sohrob	8 The Effects of Socialization on Mice	Muirlands Middle
1251	Goc	Stephanie	7 Worms At Work	Hillsdale Middle
1252	Gudgell	Ninna	8 Horses' Color Preferences	Pershing Middle
1253	Hartikka	Mikhail	8 Effect of Water Temperature on Tadpole Growth	Marshall Middle
1254	Hoekstra	Kyle	7 Earthworms Help Us, But Do We Help Them?	Santa Fe Christian
1255	Jones	Emelie	8 Infant Possession in a Western Lowland Gorilla Troop	Julian Jr. High
1256	Katawazi	Tamim	8 Caffeine Concentration's Effect on Crickets	Preuss
1257	Kristoff	Iris	7 Gorillas through the Glass	Nazareth
1258	Lu	Cathy	8 Breathing Rates of Aquatic and Air Breathers	Marshall Middle
1260	Meredith	Robin	8 The Limit of Salt as an Additive in Horse Feed	Rincon Middle
1261	Morgan	Ashley	7 Treating Thrush in Horses	Peirce Middle
1262	Nguyen	Jimmy	8 Which Goldfish is Fastest?	Montgomery Acdy.
1263	O'Meara	Andrew	7 Eating Preferences of San Diego County Birds	Emerald Middle
1264	Palinkos	Ashleigh	8 Does Age and Fitness Affect Horses' Hear Rates?	Marshall Middle
1265	Pena	Priscilla	8 The Hummingbirds Favorite Color	Chula Vista Middle
1266	Phan	Nancy	8 Black or White: Which do Mice Prefer?	Montgomery Acdy.
1267	Phillips	Nicole	7 Bunny Busyness	St. Francis
1268	Reed	Hannah	8 Man of the Forest	Holy Family
1269	Robertson	Tarolyn	8 Do Canines Have Unique Pawprints?	Carlton Hills
1270	Shadwick	Rebecca	8 Size of Sand Grains vs Digging Speed of Surf Clams	Marston Middle
1271	Sparks	Janine	7 What is the Effect of Shades of Gray on Dogs?	Bonita Vista Middle
1272	Tanag	Julius	8 Effectiveness of Environmentally Safe Ant Repellants	Wangenheim Middle
1273	Thao	Tousue	8 Do Chicks Prefer Large or Small Worms?	Montgomery Acdy.
1274	Tung	Kimberly	8 Eating Behavior of Koi	Marshall Middle
1275	Tyler	Allen	8 Music's Effect on Hamster Performance	McCabe Union
1276	Villanueva	Ursula	8 How Many Minutes Are Hamsters Active During the Day?	Montgomery Acdy.
1277	Walker	Lauren	7 Speaking Dolphin?	St. Peter's
1278	Warner	Nicholas	7 Fish Trap Line: Color Pattern Preferences	School of the Madeleine
1279	Winchell	Eric	8 Which is the Best Tunneling Soil for Harvest Ants?	Lewis Middle

1280 Wiseman	Christine	8 Relaxing Breathing Patterns of Goldfish for Adaptation to new Aquariums	Julian Jr. High
1281 Wolfinger	Mark	8 Which Color Attracts Hummingbirds Most?	Muirlands Middle
1282 Zavala	Joel	7 Which Color Flowers Do Bees Like Best?	Mar Vista Middle
1283 Zupancic	Zoe	7 Color on the Possibilities	St. Peter's

Junior Division --- Consumer Sci/Product Testing

1289 Attia	Anita	8 So Many Cleaners, So Much Bacteria	Soille S.D. Hebrew Day
1290 Banez	Matthew	8 Which Roof Shingle is Best for Insulation?	Wangenheim Middle
1291 Banning	Sarah	7 Which Water Repellant Works Best on Redwood?	Del Dios Middle
1292 Battaglia	Anthony	8 Tennis Balls, Temperature and Strings	Marshall Middle
1293 Belloli	Nathan	8 Tennis Racket Strings: Tension vs Breaking Point	Cajon Park
1294 Blackwell	Aubrey	8 Which Stall Bedding is Most Absorbent?	Peirce Middle
1295 Boyce	Whitney	8 The Truth About Aroma Therapy	School of the Madeleine
1296 Brockhoff	Sharlee	7 Now You See It, Now You Don't	St. John's
1297 Brooks	Ries	8 Does Heat Affect the Vitamin C in Fruits and Vegetables?	Pershing Middle
1298 Bruser	Kyle	8 Which Hockey Puck Travels Farthest?	Pershing Middle
1299 Canonigo	Jason	7 Marshmallows and Expansion	Castle Park Middle
1300 Cavanaugh	Laura	8 Bottled Water vs. Tap Water: Can People Tell the Difference?	Muirlands Middle
1301 Cluer	Timothy	8 Which Brand of Briquette Charcoal Burns the Most Efficiently?	St. Mary's Escondido
1302 Cook	Lindsay	8 Softdrinks vs Tooth Color	Peirce Middle
1303 Coox	Brian	7 Will Water Prices Soak Local Farmers?	Del Dios Middle
1304 Cozen-Harel	Julie	8 Is What You See What You Get?	Muirlands Middle
1305 Craft	Brian	8 Which Fishing Line is the Strongest?	Marston Middle
1306 Crawford	Stephen	8 The Effect of Altitude and Air Pressure on Balloons	Marston Middle
1307 Devan	Amanda	8 Does a Softball Travel Faster Indoors or Outdoors?	St. Mary Star of the Se
1308 Diab	Mohammad	8 Skateboards, Skateshoes and Rollershoes: A Comparison	Pershing Middle
1309 Do	Denise	7 Cleaning Vegetables: Mechanical or Chemical?	Del Dios Middle
1310 Dominguez	Ilene	8 Effects of Hard and Soft Water on Cotton Fabrics	Wangenheim Middle
1311 Fabares	Jade	8 Fading Due to UV Exposure on Photographic Paper	Marston Middle
1312 Finkel	Allison	8 Lead in Candy, a Poor Mix	Hill Creek
1313 Fleming	Andrew	7 Voice Recognition Technology	Santa Fe Christian
1314 Forzisi	Brittany	8 Biggest Best Bubbles	Rancho Del Rey Middle
1315 Francis	Mary	7 Oh, the Pressure!	Del Dios Middle
1316 Gambrell	Ashley	8 Is Stainless Steel Really Stainless?	Santa Sophia Academy
1317 Gerding	Gregory	8 Canned, Frozen or Fresh?	Lewis Middle
1318 Gilbeau	Jillian	8 Energy Vampires	Pershing Middle
1319 Gomez	Alberto	8 Which Lotion Leaves the Most Moisture	Montgomery Acdy.

		On the Skin?	
1320 Green	Ashley	8 The Breaking Point of Fishing Line	de Portola Middle
1321 Gregorich	Tom	8 Comparison of Advanced and Regular Batteries	Kroc Middle
1322 Grider	Sarah	7 Which Swimsuit Allows Greatest Speed?	Peirce Middle
1323 Grubbs	Lindsey	7 And the Winning Moisturizer Is?	Santa Fe Christian
1324 Hajosy	Callie	7 A Carpet Cleaner Comparison	Coleman Prep.
1325 Hamwey	Louis	7 Which Baseball Goes the Farthest?	Pershing Middle
1326 Hancock	Ashley	7 How are Light Bulbs Rated in Watts?	Potter Jr. High
1327 Harlow	Eric	8 Cookie Taste Test	Lewis Middle
1328 Harper	Ashley	8 Hand Lotion: Price vs Effectiveness	de Portola Middle
1329 Hobson	Evan	7 Which Bearing Lubricant is Most Effective?	Pershing Middle
1330 Hulburt	Michael	7 Nitrox Safety	School of the Madeleine
1332 Jimenez	Ellyse	8 Which Type of Surfboard Wax Holds the Best?	Rincon Middle
1333 Johnson	Felicia	8 Which Home-Made Paper is Best?	Del Dios Middle
1334 Jones	Roderick	8 Best Method of Cooking Potatoes and Carrots	de Portola Middle
1335 Jones	Brian	7 Which Ball Do I Use to Putt?	Potter Jr. High
1336 Juarez	Patrick	8 Illumination and Cost Differences of Household Light Bulbs	All Hallows Academy
1337 Kellett	Rebecca	7 Pain Relief: Is It Really Only Minutes Away?	Coleman Prep.
1338 Kelly	Erin	8 Which Skin Cream Works Best?	Marshall Middle
1339 Kettel	Jimmy	7 Bats and Baseballs	Santa Fe Christian
1340 Keup	Matthew	7 Picture Quality of One-Time-Use Cameras	Our Lady of Grace
1341 Kimmich	Ben	7 Does the Price of Popcorn Reflect Its Volume?	All Saints' Episcopal
1342 Knepper	Rebecca	7 Fire Resistance of Aircraft and Automobile Materials	Oak Grove Middle
1343 Lackey	Lauren	7 Which Counter Surface is Strongest?	Potter Jr. High
1344 Langton	Matthew	7 Transparent Tape: Will It Stick?	Coleman Prep.
1345 Lavelle	Elizabeth	8 Got Yeast?	St. Mary's Escondido
1346 Le	Brian	8 Treat Dogs Prefer Most	Marshall Middle
1347 Librea	Arthur	8 Which Food Has the Most Protein?	St Michael's Academy
1348 Ludden	Andrea	8 Which Water is Healthiest?	Coleman Prep.
1349 Magnuson	Derek	8 Finding the Best Skateboard Bearing Lubricant	Marston Middle
1350 Magulac	Anna	8 Which Solution Removes Stickers Best?	Marshall Middle
1351 Malinowski	Jennifer	8 Does Olestra Make a Chip Taste Different?	Carlton Hills
1353 Martin	Laura	7 Which Candle Wax Burns the Longest?	Pershing Middle
1354 Mazelli	Ryan	8 Skateboard Bearings	Marshall Middle
1355 Meraz	Edna	8 Brr! Hair or Blubber?	St. Peter's
1356 Mercer	Garrett	8 Which Brand of Fishing Line is Strongest?	Marshall Middle
1357 Miles	Talea	8 Which Eraser Erases Which Colored Pencil Most Effectively?	Rincon Middle
1358 Miramontes	Natasha	8 The Diaper Challenge	St. Pius X
1359 Mizrahi	Julia	7 Wax on Wax off: Comparing Static Friction of Surfboard Waxes and Paraffin	Hillsdale Middle

1360	Mogin	Bryant	8 Which Battery Lasts Longest?	Muirlands Middle
1361	Moitoza	Amy	8 Magnets: A Solution to Air Pollution	All Hallows Academy
1362	Moras	Julia	7 Preventing Water Evaporation	St. Peter's
1363	Mossberg	Annika	8 Does Comfort in a Pointe Shoe Compromise Dance Skills?	Marshall Middle
1364	Nguyen	Teresa	8 Apple Browning	SCPA
1366	Nguyen	Henry	8 Which Computer Should You Buy?	Lewis Middle
1367	Niebergall	Catherine	7 Strongest Sail Material	All Hallows Academy
1368	Persichetti	Cara	7 On Your Guard	Our Lady of Grace
1369	Quijano	Nathaniel	7 Which Charcoal Burns Longest?	Good Shepherd
1370	Rabinovich	Eliza	8 Water Filters: The Shocking Truth	Soille S.D. Hebrew Day
1371	Rein	Laura	8 Purity of Tap vs Bottled Water	S. D. Jewish Academy
1372	Ressmeyer	Katie	8 How are Black and White Films Affected by Color Contrasts?	Marshall Middle
1373	Richieri	Elise	8 Sunlight vs Oil Paints, Acrylic Paints and Oil Pastels	Marshall Middle
1374	Rigoglioso	Natalie	7 Effectiveness of Natural Fruit and Vegetable Dyes on Cotton Fabric	Stella Maris Academy
1375	Rodriguez	Lauren	8 Experimenting with the Making of Cottage Cheese	Rancho Del Rey Middle
1376	Rogers	Kenith	8 Skateboard Bearings: Do You Get What You Pay For?	Lewis Middle
1377	Rosario	Stefanie	7 Crazy Popcorn	Keiller Middle
1378	Rucker	Jessica	7 Are You Eating Metal?	Rhoades
1379	Saleem	Fatma	7 Oil Stain Minimizers: Baby Powder, Flour or Corn Starch	San Diego Islamic
1380	Sanchez	Ramon	7 Band Aids	Julian Jr. High
1381	Sandoval	Christopher	8 Do All 60 Watt Light Bulbs Have the Same Intensity?	Lewis Middle
1382	Santos	Julyne	8 Canned vs Bottled Juices	Holy Family
1383	Sapper	Brian	7 Solar vs Regular Ovens: Which Bakes the Best Cookies?	Our Lady of Grace
1384	Schaller	Craig	8 Effects of Temperature on the Adhesive Qualities of Clear Tape	Rhoades
1385	Schrodt	Kendall	8 Is the Apple With Highest Sugar Content Preferred Most?	Rincon Middle
1386	Smith	Chris	8 Firestop: How Effective is it?	Lewis Middle
1387	Solar	Max	8 Lubricant vs Rotor Spin	Marshall Middle
1388	Sposato	Nathan	8 Pump It Up	Our Lady of Grace
1389	Stanhope	Katherine	8 Is Online Shopping Really Cheaper?	Marshall Middle
1390	Tempkin	Jenna	8 Bottled vs Tap Water	Pershing Middle
1392	Thomas	Sydney	7 Which Cleaner Cleans Best?	Coleman Prep.
1393	Thornber	Justin	7 Which Soccer Ball Bounces the Highest?	Lewis Middle
1394	Tompkins	Kassi	8 Cookie Concoctions	de Portola Middle
1395	Tran	Linda	8 Fighting for Absorption	Montgomery Acdy.
1396	Truong	Olivia	7 Do Keyboard Affect Speed of Typing?	Emerald Middle
1397	Turner	Wendy	7 Soda Can Tapping: Does it Reduce Overflow?	Pershing Middle
1398	Tyndall	Heather	8 Bacterial Testing Grounds	Julian Jr. High
1399	Van Stralen	Nicole	7 A Pimple is Never Simple	Oak Grove Middle
1400	Vergili	Garrett	7 Which Fishing Knot Is Strongest?	Pershing Middle
1401	Wager	Katelyn	8 Fabric Absorbency	de Portola Middle

1402 Wahlquist	Tyler	8 Burn Rate of Different Waxes from Different Environments	Rincon Middle
1403 Wakita	Yo	7 Which Household Substances Can Be Used as Ant Repellants?	Bonita Vista Middle
1404 Warren	Spencer	8 Fuel and Heat Value of Woods	Rincon Middle
1405 Weinstein	Kayla	8 Durability of Fabrics: Natural vs. Synthetic	Diegueno Jr. High
1406 Wieder	Anisa	7 Absorbency in Tiles	SCPA
1407 Wiesner	Jeremy	8 Identifying the Best Skateboard Wax	Marshall Middle
1408 Wills	Michael	7 Drive for Show, Putt for Dough	Del Dios Middle
1409 Witton	Andrea	8 Which Potato Chips have Highest Fat Content?	St. John's
1410 Wofford	Monique	8 Which Body Boarding / Body Surfing Swim Fins are the Best?	Muirlands Middle
1411 Zipp	Danielle	8 Clean-Up Act	Stella Maris Academy
1412 Lewis	Heather	7 Are Published Electrical Consumption Rates Accurate?	Julian Jr. High
1413 Kosmo	Eric	7 The Hottest and Longest Burning Firwood	School of the Madeleine