



Irvine Unified School District

Twenty-Ninth Annual Science Fair

District Awards for Individual Projects

Wednesday, March 3rd, 2010

<i>Student Name</i>	<i>School</i>	<i>Project</i>
Sixth Grade Biological Science		
Division Award		
Idene Abhari	Turtle Rock	Crazy Compost - Affect of Compost on Plants
Iona Batchelder	Westpark	Tempus Fugit: Time Estimation While Performing Different Tasks: Internal Clock vs. Real Time
Juli Biagi	Meadow Park	Flower Power
Jessica Block	Plaza Vista	Which Type of Soda is the Most Corrosive?
Raymond Bukaty	Bonita Canyon	Plants with Gas
Evan Chang	Eastshore	Solar Panel Angle and Voltage
Christine Chiaromonte	Plaza Vista	In Which Liquids Do Anti-Acid Tablets Dissolve The Fastest?
Colette Cosyn	Eastshore	Light Duration and Plant Growth
Evan Cui	Plaza Vista	How Do Different Forms of Exercise Affect Heart Rate?
Keaton Currie	Springbrook	Heart of Music
Katherine Dayer	Stonegate	Is Reclaimed Water as Effective as Tap Water for Growing Grass?
Bryce Dec	Turtle Rock	Does Green Clean
Jacob Derusso	Vista Verde	The Cleanliness Of Soda Cans
Allison Doty	Woodbury	The Taste of Color
Spencer Fertig	Culverdale	Bacteria in Dog Saliva
Raveena Ghanshani	Brywood	Be Bold About Mold
Samantha Haraguchi	Canyon View	Sugar Rush: How Do Different Forms of Food (Orange, Orange Juice, and Orange Soda) Affect The Blood Sugar Levels
Camille Harlan	University Park	Favorable Soil for Sweet Peas
Emma Hertz	Turtle Rock	Germy Trays
Allison Hickok	Bonita Canyon	Waste Not - Want Not
Silke Hoffmann	Turtle Rock	On Your Mark, Get Set, Sprout
Samantha Hornyak	Northwood	Where the Wild Mold Grows
Grant Kohne	Meadow Park	Is There Really Iron in Cereal?
Samantha Kosai	Meadow Park	Run, Girls, Run
Christopher Lin	Brywood	The Five Second Rule
Michelle Maddox	Bonita Canyon	Polluted Plants
Kavi Mathur	Canyon View	Do Environmentally Friendly Cleaners Inhibit Bacterial Growth As Well As Chemically Based Cleaners?
Kathryn Mc Dermott	Meadow Park	School Days
Chase Moothart	College Park	Tetrachromats' Color Preference
Gabriela Morton	Vista Verde	Correlation Between The Ability To Sing on Pitch and Age, Gender, and Musical Background
Mehar Nangia	Santiago Hills	Plants - Do They Grow Better in Composted, Ground or Fertilized Soil?
Tiffany Nguyen	Deerfield	Memory Sticks

*Student Name**School**Project***Sixth Grade Biological Science****Division Award**

Sidney Ocampo	Brywood	Pigs on the Run!
Nicholas O'Neill	Woodbury	Exercise Impact on Heart Rate
Allison Piper	Bonita Canyon	Roses Are Red, Violets Are Blue
Ashwin Ramaswamy	Stonegate	Light Affects Ants
Kurun Reddy	Turtle Rock	The Big Freeze
Libby Sun	Bonita Canyon	The Battle of the Fertilizers
Amanda Sun	Santiago Hills	What Temperature and the Amount of Water is the Best and the Worst for Growing Mold on What Type of Bread?
Meera Swaminath	Brywood	Exercise And Heart Rate Of Different Age Groups
Alexandra Swardstrom	Alderwood Basics	Fizz!
Anna Tada	Greentree	Withering Flowers
Justin Tram	Plaza Vista	To Flood or Not to Flood?
Tatiana Vierma	Vista Verde	Creating Yogurt With Different Amounts of Bacteria
Avantika Vivek	Alderwood Basics	Expan-Doh!
Michael Wong	Plaza Vista	Which Household Cleaner Is Most Effective At Preventing Bacterial Growth?
Jason Wong	Brywood	Does The Genre Of Music Affect Concentration On A Memory Game?
Justin Wu	Vista Verde	Battle Of The Permanent Markers
Stacey Yu	Turtle Rock	Unappetizing Apples
Nika Zarazvand	Bonita Canyon	Changing Irrigation Time To Save Water

Outstanding Project Award

Stephanie Banh	Stonegate	Growing Mung Beans
Charlotte Bocian	Westpark	Does Dog Saliva Kill Bacteria Effectively?
Jordyn Boothroyd	Springbrook	The Advantage of Followthrough
Daniel Briseno	Meadow Park	Mom Why Are My Beans Purple
Tatyana Chalik	Culverdale	Beans On Fire!
Anam Chaudhary	Meadow Park	How Does Exercise Affect Mental Ability?
Vistamehr Darabian	University Park	The Effects of Exercise On Short-Term Memory
Riya Dewan	Northwood	Color Me Light
Jesse Fain	Greentree	Arcade Accuracy
Julia Goldstein	Woodbury	Pop! Pop! Pop!
Kenan Hedstrom	Springbrook	Preserving Fruit
Makayla Hobbs	College Park	Secret To A Fast Tortoise
Geena Kim	Culverdale	Music and Heart Rate
Justin Koga	Alderwood Basics	Diary of a Rotten Banana
Shruti Kumar	Woodbury	Do Carnations Have a Sweet Tooth?
Kelly Lin	Meadow Park	Soapy Drinks for Tomatoes
Matthew Lo	Alderwood Basics	What's the Best Meal for a Mealworm
Sofya Ogunseitan	Turtle Rock	Do Various Levels of Sugar on Bread Affect the Rate of Growth of Fungi
Lisa Olsen	Canyon View	Does The Amount Of Carbohydrates In Your Food Affect Your Blood Sugar?
Suzanna Osborne	Brywood	What Type of Toy (Fluffy, Noisy Or Shiny) Affects A Cats Play?
Allie Pai	Stonegate	Which Sweetener Does Yeast Like Best?

*Student Name**School**Project***Sixth Grade Biological Science****Outstanding Project Award**

Joseph Paik	Bonita Canyon	Listerine Mystery
Sarah Park	Canyon View	Memorization
Drew Phillips	Plaza Vista	Does the Size of the Soccer Ball Affect How High It Will Bounce?
Corey Pilson	College Park	Take a Blow
Sabrina Reed	Westpark	Do Plants Like Coffee Too?
Madeleine Rix	Canyon View	Does The Number Of Hours A Lima Bean Is Exposed To Light Affect Its Growth?
Deena Saadi	Santiago Hills	Once a Germ, Always a Germ
Kian Sahrai	Eastshore	Eye Color and Photography
Leena Shankar	Santiago Hills	A Moldy Story
Peter Tretiakov	Canyon View	How Does The Amount Of Fertilizer Affect The Growth Of A Bush Bean Plant?
Juliana Wang	Deerfield	Sugar Overload
Andrea White	Greentree	Bacteria Growth
Aydin Yolar	Westpark	The Effect of Yeast on Bread Rising
Alexander Young	Oak Creek	Study on the Similarity of Fingerprint Pattern Types in Related Family Members
Aaron Zheng	Northwood	Dark or Light?

Sixth Grade Physical Science**Division Award**

Antoinette Bailey	Deerfield	The Burning Rate of Wood
Caleb Brown	Bonita Canyon	Where In The World
Gaurav Budkule	Oak Creek	Thermoelectric Effect
Benjamin Bui	College Park	Water-Soil-Salt
Andrew Cassidy	Eastshore	Concrete Strength and Aggregate
Joanie Cheung Cheung	Brywood	How Does the Mass of an Object Affect How Long It Takes To Land From a Distance?
Reeyah Chopra	Alderwood Basics	I See Vitamin C
Ashlee Eakin	Westpark	Look Inside Your Water
Youssef Galal	Turtle Rock	Vitamin C'rprise
Anna Goodrich	Turtle Rock	The Rise of Cupcakes
Jarod Green	Westpark	Bouncing Balls
Lauren Gusikoski	Canyon View	Which Cooling Process Cools A Coca-Cola Fastest?
Sharika Hegde	Turtle Rock	Destination Insulation
Brendan Hoang	Greentree	Falling Parachutes
Erika Hoffman	University Park	Chalk In Soda
Cameron Hsieh	Canyon View	Board Resistance: Does The Angle Of Your Kickboard Affect How Fast You Can Go Across A Swimming Pool?
Timothy Hulse	Oak Creek	Does Temperature Affect the Bounce of a Tennis Ball?
Timothy Isarowong	Plaza Vista	Hey! What's Up and When Is It Coming Down?-The Effect of Weight Placement of Plane Flight
Kyoya Ishii	College Park	Let's Figure the Size of a Bounce by Numbers
Andrew Jacobsen	Stone Creek	Battle of the Batteries
Samuel James	Northwood	Frictional Paths
Minnah Kazi	Vista Verde	How Cool Is It

*Student Name**School**Project***Sixth Grade Physical Science****Division Award**

Matthew Lee	Vista Verde	Does the Temperature and Size of a Baseball Affect the Distance It Can Travel?
James Lu	Stonegate	Heat and Light Absorption
Benjamin Martin	Oak Creek	Soccer Ball Kick
Nilay Mehta	Deerfield	PH Level of Soda
Fatima Mobin	University Park	Is That Tye-Dyed?
Junayed Naushad	Deerfield	Go Green Solar Machine
Nam-Giao Nguyen	Plaza Vista	What Causes Different Metal to Conduct at Different Rates?
Katy O'Brien	Woodbury	Font Frenzy
Armon Rahimzadeh	Woodbury	Rubber Band Shooting
Elise Rio	Westpark	Knox It Out
Curtis Robinson	Oak Creek	Density and Evaporation
Jenna Rosebrough	Oak Creek	Melting With Metals
Benjamin Roznos	Deerfield	Evaporation
Eric Schwegman	Stonegate	Top Launch
Kenneth Shinozuka	Turtle Rock	Heroic Recycled Rubber
Jen-Yeu Wang	Westpark	Water Control
Phillip Yoon	Oak Creek	How Does the Time of Day Change the Effect of Different Wavelengths of Sunlight on Solar Cell Voltage Output?
Trevor Zahl	Springbrook	Lacrosse Strings

Outstanding Project Award

Gouri Ajith	Deerfield	Rubber Elasticity
Tiffany Balcarcel	University Park	Soccer Bonanza
Samah Basit	Stone Creek	You're Never Out of Electricity
Adeline Belsby	Brywood	Parachutes In Motion
Austin Bradford	Eastshore	Weight Location and Speed of a Pinewood Derby Car
Connor Brown	Northwood	Baseballs in Motion
Sean Carroll	Culverdale	Heavy Hitters
Benjamin Chai	Deerfield	Popcorn Production
Yashasvi Chandrabhatta	College Park	Electricity and Pencils?
Connie Chau	Brywood	Fruit And Vegetable Electricity
Aishee Das	Bonita Canyon	How To Interrupt A Magnetic Field
Anthony Demetrescu	Vista Verde	Trebuchet Throwing Distance Optimization
Ashwin Dharne	Turtle Rock	Spinning in the Wind
Armine Dingilian	Stone Creek	How Does the Concentration of Salt Affect the Melting Rate of Ice?
Jacob Estrada	Greentree	Radio Waves
Emeline Finer	Oak Creek	Fermentation in Different Conditions
Ethan Frey	Oak Creek	Wing Design and Flight Time
Nicholas Glorioso	Alderwood Basics	Free Falling
Sophia Gonsalves	College Park	Pendulum Motion
Ishan Gujral	Alderwood Basics	Coin Drop Off
Amanda Hittelman	Stonegate	Efficient Energy
Kevin Ho	University Park	Angle & Range

*Student Name**School**Project***Sixth Grade Physical Science****Outstanding Project Award**

Elise Hughes	Brywood	Popping Balloons
Arrian Iraniha	Turtle Rock	Dangers of Phosphoric Acid on Teeth
Marina Iranmanesh	Vista Verde	Rate of Ice Cube Solubility in Different Colored Glasses
Shiori Ito	Woodbury	Harden Boxes
Serena Junejo	Northwood	Heat! The Battle of the Colors
Lauren Kim	Eastshore	Candy Chromatography
Eujung Koh	Meadow Park	Soap Effect
Rintaro Komori	Alderwood Basics	Pendulum's Law
Irene Koo	Eastshore	Snow Globe Viscosity
Tristan Malhotra	Westpark	The Rockin' Newton's Cradle
Alexander Novakovic	Culverdale	Environmentally Solar
Alex Ohanian	Brywood	Does The Type Of Towel or Sponge Affect How Much Liquid Is Absorbed?
Yu-Bin Park	Canyon View	T-Shirts: Does The Color Of The T-Shirt Affect Its Temperature In The Sun?
Simren Patel	Westpark	Which is the Most Effective Pre-Wash Stain Remover on Cotton?
Kristian Petrov	College Park	Lifter Technology
Namita Prakash	Canyon View	Racing Readers - Does The Amount Of Light That Falls On A Book Affect A Person's Reading Rate?
Amrit Rau	Santiago Hills	Tension Question
Alex Ree	College Park	Lingering Notes
Tomer Reuveni	University Park	The Need for Speed
Tianna Sanders	Deerfield	Paper Towel Testing Using Water
Scott Searl	Plaza Vista	Which Type of Parachute Slows Descent the Best?
Justin Sheparovich	Meadow Park	The Puck Stops Here
Cameron Van Horn	Eastshore	Does the Amount of Fuzz on a Tennis Ball Have an Effect on Bounce Height?
Tanmayi Vashist	Alderwood Basics	This Little Miss Muffet likes her Curd and Whey
Stephen Yang	Bonita Canyon	Electrifying Liquids
Karen Yang	Brywood	Salt In The Humidifier
Hunter Yoak	Deerfield	The Science of Catapults
Andrew Zhou	Eastshore	Temperature and Magnet Strength

Seventh and Eighth Grade Biological Science**Division Award**

Srinidhi Bharadwaj	Venado M.S.	Got Viscosity?
Flora Chang	Vista Verde	The Effect of Eye Color on Peripheral Vision
Brianna Kaufman	Vista Verde	Which Mouthwash Best Prevents Bacterial Growth?
Christopher Kawata	Vista Verde	Effects of Exercise on Peak Flow and Oxygen Saturation Levels at High Elevations
Dana Lynn Lansigan	Venado M.S.	'Water and Yeast' The Effect of Different Water Sources on the Rate of Cell Respiration
Kendrick Nguyen	Vista Verde	Effect on Bacteria: Ultraviolet vs. Hand Sanitizer
Ji Ho Park	Rancho San Joaquin M.S.	The Effects of Three-Membered Heterocyclic Compound-Derived dTTP Analogs on the Inhibition of Nucleic Acid Polymerases Relative to that of dTTP Using Molecular Docking

*Student Name**School**Project***Seventh and Eighth Grade Biological Science****Division Award**

Jacob Torrey	Plaza Vista	Fertilizer: A Naughty Nutrient
Albert Tung	Rancho San Joaquin M.S.	The Effect of Different Material-Made Bio-Bags on the Rate of Decompsition
Natalie Wu-Woods	Lakeside M.S.	Effects of Essential Oils from Plants Used by Native Americans on the Growth of Bacteria

Outstanding Project Award

Jonathan Chang	Plaza Vista	The Diffusion of Gummy Bears
Sunho Chung	Rancho San Joaquin M.S.	The Effect of Distance from Microwave Radiation on Drosophila melanogaster's Lifespan
Jessica Dallas	South Lake M.S.	A Snoop on the Stroop
Hye Rin Jeong	Lakeside M.S.	The Confusion of the Stroop Test
Katharine Mukai	South Lake M.S.	Remember This
Gabrielle Ravelli	Lakeside M.S.	Who Has the Cleanest Mouth? Girls, Boys, or Dogs?
Purnika Selvan	Rancho San Joaquin M.S.	The Sweetener That Causes the Highest Increase in Blood Glucose Levels
Rebecca Shane	Rancho San Joaquin M.S.	Solving the Man-Made Water Crisis: The Effect of Varying pH and Greywater Levels on Phaseolus limensis
Jessie So	Vista Verde	The Effect of Popular Drinks on Tooth Decay
Yasmine Yadollahi	South Lake M.S.	Time to Memorize

Seventh and Eighth Grade Physical Science**Division Award**

Valentina Alayon-Garcia	Lakeside M.S.	Different Sized Alka-Seltzer Tablets Reaction Rate
Christian Alonte	South Lake M.S.	Homemade Hydroenergy
Alex Chang	Rancho San Joaquin M.S.	A Study of Utilizing "Maglev" Base Isolation for Reduction of Structural Damage During an Earthquake
Aidan Galassetti	Vista Verde	The Effect of Sunlight and Soil on the Biodegradability of Plastic
Giovanni Gaz	Plaza Vista	Eggsperiment
Rae Holcomb	South Lake M.S.	Hero Engines
Jaeho Kim	Lakeside M.S.	Cooler House or Cooler Earth
Peter Min	Vista Verde	Effects of Different Blades on Wind Turbines
Kruthi Renduchintala	Rancho San Joaquin M.S.	The Effect of the Wavelength of a Color on the Output of a Solar Panel
Ryan Taylor	South Lake M.S.	Wind Energy
Jennifer Tram	Plaza Vista	Density: The Hidden Culprit
Kotaro Tsutsumi	Vista Verde	Model Rocket Aerodynamics
Philip Wright	Vista Verde	Flip Turn vs. Open Turn
Clarissa-Cecile Wu	Rancho San Joaquin M.S.	Solar Still!: The Effect of Applying Glitter on the Solar Panel to Increase the Output of Water Distillation in a Solar Still

Outstanding Project Award

Madeline Bradford	Lakeside M.S.	How Does Heat Affect How Fast an Egg Descends into a Bottle?
Ty Christensen	South Lake M.S.	Acidic Effects on Metal
Yuki Hoshino	Lakeside M.S.	Water Splash
Selin Karaoguz	Plaza Vista	Does the Weight of the Bob Affect the Time a Pendulum Swings?

*Student Name**School**Project***Seventh and Eighth Grade Physical Science****Outstanding Project Award**

Jillian Kido	Plaza Vista	Do Different Liquids Affect the Amount of Electrical Current That Passes Through Them?
Konrad Kozlowski	Vista Verde	The Effects of Mass on Paper Airplane Flight
Timothy Lantin	Plaza Vista	Clear as Mud?
Kristin Lee	Vista Verde	Bounce a Golf Ball to Improve Your Game
Scott Numamoto	South Lake M.S.	Falling Slowly
Kenneth Pham	Lakeside M.S.	How Does the Ratio of Soap to Water Affect How Long it Takes for a Bubble to Pop?
Andrew Schmidt	Plaza Vista	Oil and Water Don't Go Hand in Hand
Aria Yadollahi	South Lake M.S.	Electromagnetic Force
Anne Yu	Rancho San Joaquin M.S.	The Effect of the Diameter of the Wire Tube on the Intensity of Electricity Converted from Radio Waves

Ninth and Tenth Grade Biological Science**Division Award**

Nicole Midani	Woodbridge H.S.	An Analysis Of Oxygen Production In Combination With Ability To Block Ultraviolet Radiation In Four Plant Species
Monsoon Pabrai	Northwood H.S.	Anaerobic Fermentation of Biomass: Effect of Mixing Cornstalk with Cow Manure on Biogas Yield
Tarika Soni	Northwood H.S.	Effects of Nitrates and Phosphates on Wetland Ecosystems
Jessica Wu-Woods	Woodbridge H.S.	To Determine if "Organic Certified" Corn is Contaminated with Genetically Modified Corn

Outstanding Project Award

Anthony Chen	University H.S.	The Effect of Chemical Levels in the Water of an Estuary on the Fish that Live Inside It
Catherine Dong	Northwood H.S.	The Optimal DNA Concentration for the Transformation of Escherichia coli
Sanjna Ghanshani	University H.S.	Development of a Real-Time PCR Assay for Detecting the Prevalence of 2009 Influenza A (H1N1) Virus
Benjamin Glasser	Woodbridge H.S.	A Comparison Of Bacterial Growth On Wood Versus Plastic Cutting Boards
Megan Scott-Busenbark	Northwood H.S.	The Effect Of Acid Rain On Bush Bean Plants, Clover Plants & Radish Plants Growth & Plant Life
Ellen Zhuang	Woodbridge H.S.	The Effect Of Temperature Changes On The Amount Of Carbon Dioxide Released By Soil Microbes

Ninth and Tenth Grade Physical Science**Division Award**

Joshua Belford	Woodbridge H.S.	The Effect Of The Depth Of Focus On The Magnitude Of An Earthquake
Brandon Ferguson	Woodbridge H.S.	The Fighter Design With The Least Reflectivity
James Xue	University H.S.	Green Concrete for Safer Infrastructure
William Xue	University H.S.	Microwave Doctors for Civil Infrastructure Health
Dillon Zhi	Woodbridge H.S.	A Computer Simulation Of The Effect of Altruistic Punishment On The Fitness Of Cooperative Behavior
Alex Zivkovic	University H.S.	The Effects of Rainfall on the Composition of Creek Water and the Correlation Between These Effects and Lining Soil Composition

Outstanding Project Award

Kayane Dingilian	Woodbridge H.S.	The Ability Of Sand And Soil To Absorb Pollution From Water As Represented By Chlorine And Acidity
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*Student Name**School**Project***Ninth and Tenth Grade Physical Science****Outstanding Project Award**

Wei-Ting Hsu	Woodbridge H.S.	The Effect Of Cooking Cotton In Solutions Of Different pH On The Amount of Cellulose Fiber Preserved In The Cotton
Priyanka Mehta	Woodbridge H.S.	The Effect Of Blade Angle On The Voltage Produced From A Hydroelectric Turbine
Chakradhar Murali	Northwood H.S.	The Correlation Between A Propeller's Cord Length and Radius Regarding The Energy It Produces

Eleventh and Twelfth Grade Biological Science**Division Award**

Dave Ho	University H.S.	The Effect of Various Modern Chemical Hazards on the Taxis Behavior and the Regenerative Ability of <i>Dugesia tigrina</i>
Joshua Kim	Northwood H.S.	Beach Pollution in Southern California
Ayan Kusari	University H.S.	Characterizing the Role of Arachidonic Acid-Derived Eicosanoids in Breast Cancer
Sumit Mitra	University H.S.	The Effect of Photosensitization of Fullerene-based Nanoparticles on Reactive Oxygen Species Generation and Toxicity to Viruses in Various Aqueous Environments
Jeongmin Shin	Northwood H.S.	Ontogeny of Honey Bee Flights
Nathaniel Taft	Woodbridge H.S.	The Effects Of Sleep Deprivation On Reaction Time And Memory Retention
Megan Yu	University H.S.	Understanding Mechanisms of Immune System Regulation: A Molecular Study of Transcriptional Regulation by the Complement System

Outstanding Project Award

Sharon Chen	Woodbridge H.S.	The Effect of Cell Phone Radiation On The Reproduction Of The Yeast <i>Saccharomyces cerevisiae</i>
Jonathan Henley	Woodbridge H.S.	The Effect of <i>Synsepalum dulcificum</i> (Miracle Berry) On Taste Modification
Christine Lew	Woodbridge H.S.	The Effect Of Winglet Angle On Lift
Alexander Lu	University H.S.	The Antibacterial Efficacy of Extract of <i>Zingiber officinale</i> on <i>Escherichia coli</i> In Vitro
Kathryn Ruben	Woodbridge H.S.	A Study Of Inattentional Blindness

Eleventh and Twelfth Grade Physical Science**Division Award**

Evelyn Chang	University H.S.	The Development and Validation of an Eco-Friendly MICP (Microbially-Induced Calcium Precipitation) Process for the Mitigation of Liquefaction-Prone Soils
Andrew Steffen	Woodbridge H.S.	The Run-Time Of Integer Factorization Algorithms
Hatsune Sumi	Woodbridge H.S.	The Effects Of D-Limonene Extracted From Different Citrus Fruits On The Disintegration Of Polystyrene Foam
Hope Xu	University H.S.	The Effect of CO ₂ Upon Permeation Rate of Water and Its Interaction With Soil

Outstanding Project Award

Zachary Johnson	Woodbridge H.S.	The Effect Of Differing End Mill Length And Diameter On Dimensional Control While Cutting Steel With An End Mill
Wayne Lin	University H.S.	The Amount of Shock Various Materials Can Absorb in Finding a Suitable Replacement for EVA
Eddie Yan	University H.S.	An Anlysis of Clock Rate and Thermal Scaling in Modern Multi-Core Microprocessors