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2007 Science Fair Announces Award Winners

*Top Performers Go to Intel International Science and Engineering Fair in Albuquerque
Symantec Software Awards \$10,000 Engineering Scholarship*

SALT LAKE CITY, April 5, 2007—The Utah Science Center and the University of Utah announced the winners of the 2007 Salt Lake Valley Science and Engineering Fair. The fair was held at The Tower at Rice-Eccles Stadium, on the University of Utah campus March 28-29. Students in grades five through 12 from Salt Lake, Granite, Murray and Tooele school districts competed.

Over 300 students submitted 237 projects at this year's fair, up from 183 entries last year.

Fifth and sixth grade students competed in the Elementary Division, seventh and eighth graders compete in the Junior Division, with ninth through 12th-graders competing in the Senior Division. First, Second and Third place individual and team winners were announced in 14 topic areas. The fair also gave Special Awards, which were sponsored by local business and education organizations (see attached document for complete list).

Grand Champion winners in the Senior Division will compete in the Intel International Science and Engineering Fair (ISEF) May 13-19, 2007 in Albuquerque. The Intel ISEF is the world's largest pre-college celebration of science, bringing together students from approximately 40 countries. Contestants at the Intel fair will compete for more than \$2 million in scholarships, tuition grants, scientific equipment and scientific trips. The following Grand Champions will represent the Salt Lake region at the Intel ISEF:

Intel ISEF Grand Champion: Team

- Abbie Gardner and Katy Schramm, AMES Academy. Brain Lateralization: Getting A Hand On Learning And How The Brain Works

Intel ISEF Grand Champion: Individual

- Matthew Searle, Olympus High. Rotating Cylinders Create Lift? An Implementation of the Magnus Effect in Airfoil Design
- Oliver Jeong, West High. Increasing Magnetic Field of Electromagnet by Lowering Temperature

Special Awards

Symantec Software awarded a \$10,000 Software Engineering Scholarship to Nicholas Terry for his project titled, Goal Oriented Programming. Details regarding other special awards are attached below.

The Salt Lake Valley Science and Engineering Fair is made possible by the Utah Science Center, the University of Utah, The Leonardo, Intel Foundation, and other corporate sponsors. For more information, visit www.utahsciencecenter.org/sciencefair.

About the Utah Science Center

The Utah Science Center (www.utahsciencecenter.org) emphasizes creative and active exploration of the worlds of science and technology. The science center endeavors to create a culture and environment for exploring the factors and phenomena that affect our lives and shape our future. The Utah Science Center, along with YouthCity Artways (www.youthcityartways.org) and the Center for Documentary Arts (www.cdautah.org), is a founding partner in The Leonardo (www.theleonardo.org), an art, culture and science center scheduled to open in downtown Salt Lake City in 2009.

Elementary: Behavioral & Social Science

Place	Student Name	School	Project Name
1st	Ian Anderson & Anni Nelson	Highland Park	Mouse Behavior
2nd	Mellody Lofquist	Parkview Elementary	Moonlight Madness
3rd	Abraham Conner	Uintah Elementary	Crazy For Catnip Or Not

Elementary: Behavioral & Social Science

Place	Student Name	School	Project Name
1st	Marissa Anderson	Beacon Heights Elementary	Playing With Your Mind
2nd	Sammi McConkie	Beacon Heights Elementary	Ruler Reaction
3rd	Lauren Blackburn	Eastwood Elementary	Distraction Reaction

Elementary: Cellular Biology

Place	Name	School	Project Name
1st	Erika Wilson	Whittier Elementary	The affects of hand soaps on bacteria

Elementary: Botany

Place	Name	School	Project Name
1st	Abby Maxwell	Liberty Elementary	What Kind Of Shampoo And Conditioner Do You Like Best

Elementary: Chemistry

Place	Name	School	Project Name
1st	Brandon Zhou	Fox Hills Magnet	Washing Fire
2nd	Alyssa Wilson	Uintah Elementary	Rapunzel, Rapunzel, Let Down Your "What" Hair?
3rd	Quincy Bowen	Whittier Elementary	Which Liquid Evaporates Fastest

Elementary: Earth Science

Place	Name	School	Project Name
1st	Brandon Zhou	Fox Hills Magnet	Washing Fire
2nd	Alyssa Wilson	Uintah Elementary	Rapunzel, Rapunzel, Let Down Your "What" Hair?

3rd	Quincy Bowen	Whittier Elementary	Which Liquid Evaporates Fastest
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Elementary: Energy/Transportation

Place	Name	School	Project Name
1st	Natalie Nelson	Indian Hills Elementary	Nuts About Fuel
2nd	Jack Whitby	Whittier Elementary	Measuring The Energy Of Propane Fuel Combustion
3rd	Brooke Buhler	Pioneer Elementary	Candle Power

Elementary: Electrical/Mechanical Engineering

Place	Name	School	Project Name
1st	Jenna Gardner	Oakridge Elementary	Which Beam Is Best
2nd	Will Orton	Hawthorne Elementary	Measuring Gravity's Effect On The Space-Time Continuum
3rd	Ben Grodner	Indian Hills Elementary	Making Electricity From Magnets

Elementary: Environmental Science

Place	Name	School	Project Name
1st	Tasha Heilweil	Oakridge Elementary	The 1999-2004 Drought: Can We See It In The Trees
2nd	Semisi Rigby	Beacon Heights Elementary	It's All About The Metals
3rd	David Templeman	Cottonwood Elementary	The Driving Dilemma

Elementary: Environmental Management

Place	Name	School	Project Name
1st	Tristan Mulder, Jeff Souza & Peter Taillac	Morningside Elementary	Solar Distillation
2nd	Christopher DeCamp, Vincent Fu & Phillip Vernon	Morningside Elementary	Bag Busters
3rd	Esabella Khaosanga	Fox Hills Elementary	Can you clean oil spills easier in fresh water or salt water

Elementary: Medicine & Health

Place	Name	School	Project Name
1st	Lindsey Vickers	Uintah Elementary	Are Absences In The Air?
2nd	Kaitlin Reed	Oakwood Elementary	Blood Sugar And Exercise
3rd	Coltin Dennis	Pleasant Green Elementary	Energy Waker Or Energy Taker

Elementary: Microbiology

Place	Name	School	Project Name
1st	Kate Antommara	Whittier Elementary	Ties vs. Bow Ties: Which Is Safer?
2nd	Sarah Pagels	Hawthorne Elementary	Beauty And Those Beasts
3rd	August Boyle	Beacon Heights Elementary	Butterfat Content Affects Spoilage Rate

Elementary: Physics/Astronomy

Place	Name	School	Project Name
1st	Jack Schunk	Oakridge Elementary	Impact Craters
2nd	Matthew Templeman	Cottonwood Elementary	Get Into The Swing Of Things
3rd	Omar Zamrini	Whittier Elementary	Electrical Conductors

Elementary: Plant Sciences

Place	Name	School	Project Name
1st	Molly Langr	Beacon Heights Elementary	Battle Of The Beans
2nd	Tristan Bowler	Backman	Osmosis Is A 2-Way Street
3rd	David Reyes	Liberty Elementary	Shake, Rattle And Germinate

2007 Salt Lake Valley Science and Engineering Fair: Junior Division Winners by Category

Junior: Animal Sciences

Place	Name	School	Project Name
1st	Carlee Schmidt	Hillside Middle School	Primary Paw Preference And How It Relates To Human Handedness
2nd	Carol Lai	Olympus Jr. High	Taste Like Fish
3rd	Amber Lopez	West Lake Jr. High	What Salt Works Better To Mummify A Chicken

Junior: Behavioral & Social Science

Place	Name	School	Project Name
1st	Taryn Lee	Wasatch Jr. High	What Interval Moves You?
2nd	Kayla Nielsen	Kearns St. Ann	Does A Cell Phone Conversation Affect Reaction Time?
3rd	Collin Childs	Hillside Middle School	Is Your Memory Letting You Down?

Junior: Cellular/Molecular Biology

Place	Name	School	Project Name
1st	Emily Beck	Wasatch Jr. High	Red Blood Cells Under Osmosis: Fish vs. Human

Junior: Chemistry

Place	Name	School	Project Name
1st	Katie McMahon	Kearns St. Ann	Stain Removers: A Gimmick Or Real?
2nd	Alex Pynes & Megan Skuster	Hillside Middle School	Creative Cookies
3rd	Amanda Shepherd	Hunter Jr. High	Does Salt Affect Dyes?

Junior: Computer Science

Place	Name	School	Project Name
1st	Matt Vitelli	Bryant Middle School	3D Simulation
2nd	Alex Connelley	Homeschool Mentor Group	What Can't Google Find?

Junior: Earth Science

Place	Name	School	Project Name
1st	Abram Sorensen	Wasatch Jr. High	Earthquake Liquefaction
2nd	Peter Searle	Olympus Jr. High	The Chilling Facts
3rd	Patrick Boner	Kearns St. Ann	Earthquakes - Utah

Junior: Engineering

Place	Name	School	Project Name
1st	Thomas Barlow	Reid School	Boom Box Buster
2nd	Christopher Smith	Kearns St. Ann	Insulation of the Future
3rd	Stephen Mckean & Tobin Yehle	Hillside Middle School	Optimum Chute Shapes

Junior: Energy/Transportation

Place	Name	School	Project Name
1st	John Kearns	J.E. Cosgriff Memorial Catholic School	Which Airfoil Creates The Greatest Lift
2nd	Charles Foote	Hillside Middle School	Burn Baby Burn
3rd	Anthony Anderson	Beehive Science & Technology Academy	Alternative Heating Fuels

Junior: Electrical/Mechanical

Place	Name	School	Project Name
1st	Parker Schmidt & Michael Talmadge	Entheos Academy Charter School	Wind- Renewable Energy Source
2nd	Sarah Villareal	J.E. Cosgriff Memorial Catholic School	The Ace
3rd	Tobin Yehle	Hillside Middle School	Optimum Trebuchet Ammo

Junior: Environmental Analysis

Place	Name	School	Project Name
1st	Kathryn Nelson	Hillside Middle School	Kill Your Microwave! Before It Kills You?
2nd	Noga Ardon	Hillside Middle School	Selenium Toxicity In Brine Shrimp
3rd	Austin Stevens	Hillside Middle School	Wood Pollution-Burn Baby Burn

Junior: Environmental Management

Place	Name	School	Project Name
1st	Linden Hughes	J.E. Cosgriff Memorial Catholic School	The Big Dig
2nd	Taylor Thorpe	Beehive Science & Technology Academy	Taylor's Bout And Pipe Theory

Junior: Medicine & Health

Place	Name	School	Project Name
1st	Jade Jaques	Clayton Middle School	The Effect Of Cycling On Heart Rate
2nd	Nick Flint	Wasatch Jr. High	Vampire Vitamins
3rd	Cecily Winters	Hillside Middle School	Hand Washing: Does It Affect Us

Junior: Microbiology

Place	Name	School	Project Name
1st	Kaylee Nelson	Hillside Middle School	The Spice Of Life
2nd	Rachel Thackeray	Hillside Middle School	Sensitive Bacteria + Resistant Bacteria
3rd	Kelsey Strong & Leah Calder	Hillside Middle School	Straining For Survival

Junior: Physics/Astronomy

Place	Name	School	Project Name
1st	Kamala Ganesh	West High	Sunspots And Solar Flares - Do They Correlate
2nd	Shaun Osgood	Our Lady Of Lourdes Catholic School	Electrolyte Analysis Of Liquids
3rd	Bianca Ramirez	Hillside Middle School	Three Of A Kind

Junior: Plant Sciences

Place	Name	School	Project Name
1st	Kyra McComas	J.E. Cosgriff Memorial Catholic School	X-Ray Irradiation Of Radish Seeds
2nd	Caitlin Croft	Hillside Middle School	The Biggest Bean
3rd	Connor Liston	J.E. Cosgriff Memorial Catholic School	How Acid Rain Affects Plants

2007 Salt Lake Valley Science and Engineering Fair: Senior Division Winners by Category

Senior: Animal Sciences

Place	Name	School	Project Name
1st	Alina Fong	East High	Canine Intelligence

Senior: Behavioral & Social Science

Place	Name	School	Project Name
1st	Ngoc Tran	Academy of Math, Engineering & Science	Stereotypes In Teenagers' Music Choices
2nd	Clara Purk	West High	The Effects Of Learning Methods On The Stimulation Of Memory
3rd	Steve Carroll	Academy of Math, Engineering & Science	You're Out: Little League Stress

Senior: Biochemistry

Place	Name	School	Project Name
1st	Hao Doan	Hunter High School	Antioxidants And Free Radicals

Senior: Chemistry

Place	Name	School	Project Name
1st	Jake Nelson	Wasatch Jr. High	The Hotter They Are, The Faster They Freeze
2nd	Katie Flynn	Olympus Jr. High	Water "Weight Watcher"
3rd	Analicia Zamora	Beehive Science & Technology Academy	Does Exercise Affect CO ₂ ?

Senior: Chemistry

Place	Name	School	Project Name
1st	Jake Nelson	Wasatch Jr. High	The Hotter They Are, The Faster They Freeze
2nd	Katie Flynn	Olympus Jr. High	Water "Weight Watcher"
3rd	Analicia Zamora	Beehive Science & Technology Academy	Does Exercise Affect CO ₂ ?

Senior: Computer Science

Place	Name	School	Project Name
1st	Surabhi Kasera	Wasatch Jr. High	Knock, Knock... Who's There?
2nd	Hanne Paine	West High	The Effect Of Symbolic Recognition vs. Visual Methods On Learning
3rd	Nicholas Terry	Academy of Math, Engineering & Science	Goal Oriented Programming

Senior: Earth Science

Place	Name	School	Project Name
1st	Alexandria Forman	Academy of Math, Engineering & Science	Terrestrial Or Extraterrestrial: Defining The Origin Of Meteorite Debris
2nd	Andrew Cobb	Academy of Math, Engineering & Science	Sediment Transport

Senior: Energy/Transportation

Place	Name	School	Project Name
1st	Matthew Searle	Olympus High School	Rotating Cylinders Create Lift? An Implementation Of The Magnus Effect In Airfoil Design
2nd	Ahrash Poursaid	Academy of Math, Engineering & Science	Hydrofuel A New Alternative?

Senior: Electrical/Mechanical Engineering

Place	Name	School	Project Name
1st	Charles McGuire	West High	Phototropic Nanotechnology Via Magnetohydrodynamic Propulsion: Year 2
2nd	Daniel Blakemore	Academy of Math, Engineering & Science	Rowwgbot
3rd	Xin Wan	West High	Rocket Bottle

Senior: Environmental Analysis

Place	Name	School	Project Name
1st	Martin Suarez	Olympus Jr. High	The Spreading Of Airborne Contaminants Indoors
2nd	Alixandria Young-Jui	City Academy	Ph And Nitrifying Bacteria
3rd	Morgan Starr	City Academy	What Effect Do Root Sizes Have On Pollutants In Water

Senior: Environmental Management

Place	Name	School	Project Name
1st	Nirvana Huntington	City Academy	Impacts Of Time And Temp On Fecal Coliform
2nd	Amy Rallison	West High	The Effect Of Different Cleaning Agents On Oiled Feathers

Senior: Mathematical Sciences

Place	Name	School	Project Name
1st	Connie Zhong	Wasatch Jr. High	Catch Me If You Can: A Comparison Of Different Search Patterns

Senior: Medicine & Health

Place	Name	School	Project Name
1st	Sarah Niitsuma	Academy of Math, Engineering & Science	Is Music Stressing You Out?
2nd	Liz Harbuck	West High	The Effect Of Exercise On Body Fat Levels

Senior: Microbiology

Place	Name	School	Project Name
1st	Madison Hunt	West High	The Ten-Second Rule

2nd	Dianna Singh	West Lake Jr. High	How Clean Is Your House?
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Senior: Physics/Astronomy

Place	Name	School	Project Name
1 st	Oliver Jeong	West High	Increasing Magnetic Field Of Electromagnet By Lowering Temperature
2 nd	Kiffer Creveling	Skyline High	Accelerated Projectile Phenomena Of A Trebuchet
3 rd	Maia Bromley-Dulfano	Academy of Math, Engineering & Science	Did You Hear That?

Senior: Plant Sciences

Place	Name	School	Project Name
1 st	Caitlin Caccitorie	City Academy	Nitrate Absorption By Wetland Plants
2 nd	Luming Chen	West High	The Effect Of Carbon On Plant Growth
3 rd	Benjamin Cundick	Beehive Science & Technology Academy	Are Sundews Or Venus Flytraps Better At Catching Insects?

2007 Salt Lake Valley Science and Engineering Fair: Senior Team Awards

Place	Name	School	Project Name
1 st	Benjamin Shapiro & Khoa Pham	West High	Optimizing The Power Output Efficiency Of An Asymmetric Ehd Thruster
2 nd	Kate Richards & Luke Schunk	Wasatch Jr. High	The Affect Of Altitude And Exercise On Peak Flow
3 rd	April Buckway & Katharine Christilaw	Academy of Math, Engineering & Science	Reading With Your Senses

2007 S.L. Valley Science and Engineering Fair: Discovery Channel Young Scientist Challenge

Name	School	Project Name
Lindsey Vickers	Uintah Elementary	Are Absences In The Air?
Brandon Zhou	Fox Hills Magnet	Washing Fire
Natalie Nelson	Indian Hills Elementary	Nuts About Fuel
Tasha Heilweil	Oakridge Elementary	The 1999-2004 Drought: Can We See It In The Trees
Abram Sorensen	Wasatch Jr. High	Earthquake Liquefaction
Peter Searle	Olympus Jr. High	The Chilling Facts
James Searle	Cottonwood Elementary	Brrr! Can You Feel The Wind Chill
Kaylee Nelson	Hillside Middle School	The Spice Of Life
Jenna Gardner	Oakridge Elementary	Which Beam Is Best
Katie McMahon	Kearns St. Ann	Stain Removers: A Gimmick Or Real?
Kyra McComas	J.E. Cosgriff Memorial Catholic School	X-Ray Irradiation Of Radish Seeds
Will Orton	Hawthorne Elementary	Measuring Gravity's Effect On The Space-Time Continuum
Rachel Thackeray	Hillside Middle School	Sensitive Bacteria + Resistant Bacteria
Taryn Lee	Wasatch Jr. High	What Interval Moves You?
Jack Whitby	Whittier Elementary	Measuring The Energy Of Propane Fuel Combustion
Alyssa Wilson	Uintah Elementary	Rapunzel, Rapunzel, Let Down Your "What" Hair?

2007 Salt Lake Valley Science and Engineering Fair: Special Awards

Award Name	Name	School	Project Name
American Meteorological Society	Peter Searle	Olympus Jr. High	The Chilling Facts
	Abram Sorensen	Wasatch Jr. High	Earthquake Liquefaction
American Psychological Association	Ngoc Tran	Academy of Math, Engineering & Science	Stereotypes In Teenagers' Music Choices
American Society of Civil Engineers (ASCE)	James Parkin & Matthew Roderick	Dilworth Elementary	The World's Strongest Bridges
	Tristan Mulder, Jeff Souza & Peter Taillac	Morningside Elementary	Solar Distillation
	Samantha Previte & Elhom Gosink	Bonneville Elementary	Ground Materials And Earthquakes
	Abram Sorensen	Wasatch Jr. High	Earthquake Liquefaction
	Jenna Gardner	Oakridge Elementary	Which Beam Is Best
	Linden Hughes	J.E. Cosgriff Memorial Catholic School	The Big Dig
	Lynee Ritchie, Nicole Denkers & Sarah Butler	Academy of Math, Engineering & Science	Public Water: How Much Chlorine Are You Drinking?
	Andrew Cobb	Academy of Math, Engineering & Science	Sediment Transport
	Madeline Hartley	City Academy	Cleaning Up Water With SUV Light
ASM Materials Education Foundation	Omar Zamrini	Whittier Elementary	Electrical Conductors
Association for Women Geoscientists	Tasha Heilweil	Oakridge Elementary	The 1999-2004 Drought: Can We See It In The Trees
Air and Waste Management Association (AWMA)	Jordan Garahana	Hunter Jr. High	Gone With The Wind
Herbert Hoover Presidential Library Association	Scott Fleming, Rajath Thekkedath & Evan Clark	West High	Space Elevators: Designing, Modeling, And Theoretically Developing The Next Level In The Space Frontier

2007 Salt Lake Valley Science and Engineering Fair: Special Awards, cont.

Intel Excellence in Computer Science	Surabhi Kasera	Wasatch Jr. High	Knock Knock... Who's There?
The Leonardo	Will Orton	Hawthorne Elementary	Measuring Gravity's Effect On The Space-Time Continuum
National Oceanic and Atmospheric Association (NOAA)	Laurel Hales & Candice Murray	Academy of Math, Engineering & Science	Carbon Emissions: The Importance Of Modern Technology
Ricoh	Lindsey Vickers	Uintah Elementary	Are Absences In The Air?
Sentrx Animal Care	Alina Fong	East High	Canine Intelligence
	Amy Rallison	West High	The Effect Of Different Cleaning Agents On Oiled Feathers
	Carlee Schmidt	Hillside Middle School	Primary Paw Preference And How It Relates To Human Handedness
Society for In Vitro Biology	Caitlin Caccitorie	City Academy	Nitrate Absorption By Wetland Plants
SPIE - International Society for Optical Engineering	Tianna Wrathall, Jerica Tandiman & Alexandra Smith	Entheos Academy Charter School	How Does Color Affect The Output Of Solar Panels?
	Veronica Montes	Matheson Jr. High	Color
	Jeffrey Hepler	Gerald Wright Elementary	Which Color Light Will Penetrate Fog The Best
	Stewart Griffin & Andy Cheng	Wasatch Jr. High	Pyro Techniques
United States Army	Matthew Searle	Olympus High School	Rotating Cylinders Create Lift? An Implementation Of The Magnus Effect In Airfoil Design
	Amanda Glick	West High	Is Our Water Safe?
	Ari Roque	Kearns St. Ann	Are Hamsters Colorblind?
	Steffan Tucker	Academy of Math, Engineering & Science	Assignment Reminder
	Kajsa Vlastic	West High	The Effect Of Kick Wax On The Sliding Friction Of Skis

2007 Salt Lake Valley Science and Engineering Fair: Special Awards, cont.

United States Air Force	Connie Zhong	Wasatch Jr. High	Catch Me If You Can: A Comparison Of Different Search Patterns
	Kiffer Creveling	Skyline High	Accelerated Projectile Phenomena Of A Trebuchet
	Natalie Nelson	Indian Hills Elementary	Nuts About Fuel
	Kaylee Nelson	Hillside Middle School	The Spice Of Life
U.S. Department of Health and Human Services	Ines Barrios & Ludmila Nicolia	Academy of Math, Engineering & Science	Yerba Mate As A Substitute For Caffeinated Drinks
United States Metric Association	Scott Fleming, Rajath Thekkedath & Evan Clark	West High	Space Elevators: Designing, Modeling, And Theoretically Developing The Next Level In The Space Frontier
United States Navy and Marine Corps	Natalie Nelson	Indian Hills Elementary	Nuts About Fuel
	Jack Larson & Patrick Waldron	Clayton Middle School	Maglev Trains
	James Parkin & Matthew Roderick	Dilworth Elementary	The World's Strongest Bridges
	Tristan Mulder, Jeff Souza & Peter Taillac	Morningside Elementary	Solar Distillation
	Charles McGuire	West High	Phototropic Nanotechnology Via Magnetohydrodynamic Propulsion: Year 2
	Surabhi Kasera	Wasatch Jr. High	Knock Knock... Who's There?
	Benjamin Shapiro & Khoa Pham	West High	Optimizing The Power Output Efficiency Of An Asymmetric Ehd Thruster
Utah Council of Teachers of Mathematics	Tobin Yehle	Hillside Middle School	Optimum Trebuchet Ammo
	Connie Zhong	Wasatch Jr. High	Catch Me If You Can: A Comparison Of Different Search Patterns
Utah Department of Natural Resources	William Richards	Morningside Elementary	Through With Drive-Thrus

2007 Salt Lake Valley Science and Engineering Fair: Special Awards, cont.

Utah Science Center	Jessica Smith	Olympus Jr. High	Ready, Steady, Right Or Left
Water Environment Federation	Lynne Ritchie, Nicole Denkers & Sarah Butler	Academy of Math, Engineering & Science	Public Water: How Much Chlorine Are You Drinking?
XMission	Lindsey Vickers	Uintah Elementary	Are Absences In The Air?
Yale Science and Engineering Association	Braeden Beckstead & Andy Andersen	Beehive Science & Technology Academy	Plastic Bottle Rockets

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