

USEF 2019 - Junior Division			
Category and Rank	Name	School	Project Title
Behavioral & Social Sciences - First	Leah Han	Our Lady of Lourdes	Can Game Extract the Desire to Learn?
Behavioral & Social Sciences - Second	Reagan Manwaring	Albion Middle School	The Effect of Piano Practice on Fluency Speed
Behavioral & Social Sciences - Third	Caroline Mullin	St. Joseph Elementary School	Nature Connection
Behavioral & Social Sciences - Fourth	Jordan Olschewski	Entheos Academy	Are You Left or Right?
Biology & Biochemistry - First	Ronak Agarwal	West High	Copper . . . to the Res(Cu)?!?!
Biology & Biochemistry - Second	Katherine Hall	St. Joseph Elementary School	A Fountain of Germs
Biology & Biochemistry - Third	Kai Gerton	West High	Effect of Sugar Source on Growth and Lactic Acid Production of Lactobacilli
Biology & Biochemistry - Fourth	Jaziayah Evans, Hanan Osman & Viridiana Madrigal	Salt Lake Center for Science Education (SLCSE)	Something's Fishy
Chemistry - First	Mercedes Randhahn	St. Joseph Elementary School	Opioid-Like Deactivation
Chemistry - Second	Aidan Mulligan	St. John the Baptist Middle School	Acid Attack
Chemistry - Third	Katerina Rogacheva	Midvale Middle School	Three methods to test salt concentration in water
Chemistry - Fourth	Maisie Stevens	Clayton Middle School	Should You Flush That?
Earth & Environmental Sciences - First	Colleen MacWilliams	J.E. Cosgriff Memorial	How do the Melting Ice Caps, Water Salinity, and Iron Content Affect Plankton Growth?
Earth & Environmental Sciences - Second	Ava Sibthorp	J.E. Cosgriff Memorial	What type of toilet paper is the most biodegradable when backpacking?
Earth & Environmental Sciences - Third	Sharayu Senthilkumar	West High	Pesticides in Utah Water
Earth & Environmental Sciences - Fourth	Emma Sachse	Clayton Middle School	Killer in the Kitchen: Indoor Air Pollution By Cooking
Energy: Chemical & Physical - First	Swayam Sakpal	American Preparatory Academy APA Draper 3	Can the heat produced by electronics be repurposed
Energy: Chemical & Physical - Second	Gabriel Williams	Midvale Middle School	Thermoelectricity: The Seebeck Effect
Energy: Chemical & Physical - Third	Madilyne Beaudry	St. Joseph Elementary School	All Aflame
Energy: Chemical & Physical - Fourth	Priyanka Mathews	Challenger	What is the Effect of the Salinity of a Saltwater Battery's Electrolyte on the Voltage that it Produces?
Engineering: Civil & Environmental - First	Eric Lu	West High	A Cool new way to cool
Engineering: Civil & Environmental - Second	Teo Kjolseth	St. Vincent de Paul School	Prove Them Wrong: How the Sand Palace Beat the Odds
Engineering: Civil & Environmental - Third	Alec Enriquez	St. Joseph Elementary School	The Liquefaction Reaction
Engineering: Civil & Environmental - Fourth	Carter Jensen	Challenger	H2 Oh No
Engineering: Electrical & Computer Science - First	Julien Grijalva	St. Joseph Elementary School	Face and Obstruction Detecting Robot with Arduino and Adam
Engineering: Electrical & Computer Science - Second	Jameson Thackeray	Hillcrest Jr. High	LostLock RF Tracker
Engineering: Electrical & Computer Science - Third	Dana-Xuan Nguyen	Churchill Jr. High	DIY Cell Phone
Engineering: Electrical & Computer Science - Fourth	Kevin Pernich	J.E. Cosgriff Memorial	What Materials Can Block a WiFi Signal?
Engineering: Materials & Biomedical - First	Nathaniel Loveless	West High	An Affordable Alternative to Conventional Fused Deposition Modeling Waste Material Recycling
Engineering: Materials & Biomedical - Second	Kassie Holt & Sidor Clare	Beehive Academy	Bound and Bricked
Engineering: Materials & Biomedical - Third	Calixte Viollet	J.E. Cosgriff Memorial	How does the strength of bone glue differ to that of a polyvinyl glue?
Engineering: Materials & Biomedical - Fourth	Andy Martins	Bryant Middle School	Measuring Impact Resistance of Different 3d Printing Materials
Engineering: Mechanical - First	Nicholas Jacob	Beehive Academy	Self Solving Rubik's Cube
Engineering: Mechanical - Second	Nicole Payne	Clarke N. Johnsen Jr. High	The Bar Chalker
Engineering: Mechanical - Third	MaKell Allred	Jefferson Jr. High	Sucky Water Bottles

Engineering: Mechanical - Fourth	Daniel Christenson	American Preparatory Academy APA West Valley 2	Paper Airplane Flight Test
Medicine & Health Sciences - First	Izzy Fowler	J.E. Cosgriff Memorial	How well do various filtration methods eliminate chlorine?
Medicine & Health Sciences - Second	Isabella Preciado-Jaramillo	Clayton Middle School	Moisturizer barriers against water evaporation
Medicine & Health Sciences - Third	Ava DiNardo	J.E. Cosgriff Memorial	Are Certain Fingerprint Patterns Correlated with Disease and Other Biological Traits?
Medicine & Health Sciences - Fourth	Addison Conner	J.E. Cosgriff Memorial	Does sensitivity to sound frequencies differ by gender?
Physics, Astronomy & Math - First	Lukas Mesicek	Salt Lake Center for Science Education (SLCSE)	The N-body Problem: Simulating Space with Computers
Physics, Astronomy & Math - Second	Dallin Soukup	Olympus Jr. High	Shoot For the Moon: Measuring Distance Using Parallax, Electromagnetic Radiation and Lunar Eclipse
Physics, Astronomy & Math - Third	Michael Donnelly	J.E. Cosgriff Memorial	How does tension relate to a catapult's projectile height, speed, and distance?
Physics, Astronomy & Math - Fourth	Elena Ruegemer	Treasure Mountain Jr. High	Is it possible to use acoustic levitation to remove dust off of a photovoltaic cell?
Plant Sciences - First	Marianne Liu	West High	Is Our Sunscreen Safe?
Plant Sciences - Second	Alexia Roberts, Evan Birkinshaw & Alexandra Dent	Salt Lake Center for Science Education (SLCSE)	The Roots of Trouble
Plant Sciences - Third	Halle Baughman & Quinn Orgain	The McGillis School	Fertilizer Fiesta
Plant Sciences - Fourth	Cameron Liddle	J.E. Cosgriff Memorial	How do different additives in water affect the growth rate of plants?