

## Science Fair & JSHS 2011 Award Recipients

### 3M Foundation

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
3M Innovation Award	Most innovative High School	Ganti	Hari	<i>Flying in the Future: Phase Two of Optimizing an Airfoil for Inviscid Airflow Abstract</i>	1	12	Wayzata Senior High School	Male	Plymouth	2nd
3M Innovation Award	2nd place High School	Jackson	Preston	<i>Stopping Power! The use of non-Newtonian fluid and recycled paper and plastic to stop a projectile and possibly be used in a bullet proof vest —Phase IV Abstract</i>	4	10	Cloquet High School	Male	Cloquet	3rd
		Lamirande	Alec			10	Cloquet High School	Male	Cloquet	3rd
3M Innovation Award	Most innovative Middle School	Radtke	Tyler	<i>Which Orange Juice Has the Most Vitamin C? Abstract</i>	1	7	Oak Land Junior High	Male	Lakeland	1st
3M Innovation Award	2nd place Middle School	Madlom	Lexi	<i>Is Earth's Best Friend Slimy &amp; Green? Algae Based Nutrient Extraction From Eutrophic River Water Abstract</i>	8	8	Park Christian School	Female	Fargo	2nd

### American Association for Clinical Chemistry, Midwest Section

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
AACC Midwest Section MN Science Fair Award	Best Project	Pallin	Kendra	<i>The Effect The Liquid Form of Malus Domestica (Apple Juice) on the Binary Fission (Reproduction) of the Probiotic Bacteria Lactobacillus and Bifidobacterium Abstract</i>	Northeast	10	Cloquet High School	Female	Cloquet	4th

### MAS (MN Academy of Science)

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
AJAS 2011	Winner	Mukherjee	Rahul	<i>Macroalgae As An Alternative Source Of Biodiesel: From Balancing the Aquatic Ecosystem of the Great Lakes To The Industrial Utilization of Native Algae Abstract</i>	Rochester	11	John Marshall High School	Male	Rochester	1st
AJAS 2011	Alternate	Jackson	Preston	<i>Stopping Power! The use of non-Newtonian fluid and</i>	Northeast	10	Cloquet High School	Male	Cloquet	3rd

		Lamirande	Alec	recycled paper and plastic to stop a projectile and possibly be used in a bullet proof vest —Phase IV Abstract		10	Cloquet High School	Male	Cloquet	3rd
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### American Chemical Society, Minnesota Section / ACS

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
American Chemical Society Award	1st Place High School	Erdmann	Tom	Synthesis and Purification of Indene Derivatives for Organic Photovoltaic Devices Abstract	1	12	Breck School, Minneapolis	Male	Shorewood	1st
American Chemical Society Award	Honorable Mention High School	Moynan	Angela	Phantom Pharmaceuticals: What effect does ibuprofen treated with ultraviolet light in clear lake water (Lake Superior) and tannic stained river water (St. Louis River) have on <i>Selenastrum capricornutum</i> and <i>Lemna minor</i> reproduction and survival: Phase III? Abstract	4	10	Cloquet High School	Female	Cloquet	3rd
		Duke	Marlena		10	Cloquet High School	Female	Cloquet	3rd	
American Chemical Society Award	Honorable Mention High School	Abusaif	Yasmine	Surface Tension Abstract	3	9	Blaine High School	Female	Blaine	1st
American Chemical Society Award	Honorable Mention High School	Larson	Leah	UV-Vis Monitoring of Fading in Color-treated Gray/Non-gray Hair Abstract	2	11	Bemidji Senior High School	Female	Bemidji	3rd
American Chemical Society Award	1st Place Middle School	Radtke	Tyler	Which Orange Juice Has the Most Vitamin C? Abstract	1	7	Oak Land Junior High	Male	Lakeland	1st
American Chemical Society Award	Honorable Mention Middle School	Chen	Yuqi	Edible Organic Antifreeze: How antifreeze proteins in extract solution of <i>Lilium lancifolium</i> bulbs affect the quality of frozen foods Abstract	4	8	Woodland Middle School	Male	Duluth	2nd
American Chemical Society Award	Honorable Mention Middle School	Suman	William Tyler	Dissolving Pills Abstract	6	7	Cotter Junior High	Male	St. Charles	1st
American Chemical Society Award	Honorable Mention Middle School	Carroll	Nathan	The Energy Outputs of Biofuels and Fossil Fuel Abstract	1	8	Annunciation School	Male	Minneapolis	2nd

### American Fisheries Society, MN Chapter

Award	Place	Won By	Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑

American Fisheries Society Aquatic Sciences Excellence Award	Best Project	Michalski	Matthew	<i>The Effect of Biomanipulation in Stormwater Ponds</i> Abstract	Twin Cities	8	Nativity School, St. Paul	Male	St. Paul	1st
		Cao	Xiuqi	<i>The Effects of Micro-algae Characteristics on the Bioremediation Rate of Deepwater Horizon Crude Oil</i> Abstract	Rochester	10	Century High School	Male	Rochester	3rd
American Fisheries Society Aquatic Sciences Excellence Award	Best Project	Xiong	Ying			10	Century High School	Male	Rochester	2nd

### American Meteorological Society

Award	Place	Won By	Title	Region	Grade	School	Gender	City	# Fairs
American Meteorological Society Award	Best Project	Geschwind	Kate	Rochester	10	Mayo High School	Female	Rochester	2nd

### American Psychological Association

Award	Place	Won By	Title	Region	Grade	School	Gender	City	# Fairs
American Psychological Association Award	Best Project	Zhang	Rowena	Rochester	10	Century High School	Female	Rochester	1st

### ASM Materials Education Foundation

Award	Place	Won By	Title	Region	Grade	School	Gender	City	# Fairs
ASM Materials Education Foundation Award	Best Project	Kerby	Kyle	Northern	9	Laporte Public School	Male	Laporte	2nd

### Association for Women Geoscientists

Award	Place	Won By	Title	Region	Grade	School	Gender	City	# Fairs
Association for Women Geoscientists Award	Best Project	Skoglund	Sophia	Central	9	Anoka High School	Female	East Bethel	1st

### Beckman Coulter Foundation

Award	Place	Won By	Title	Region	Grade	School	Gender	City	# Fairs

Beckman Coulter Award	1st Place High School	Persaud	Avin	<i>The Use of the Zebrafish (Danio Rerio) as a Biological Model for Studying Drug-induced Cardiac Arrhythmias in Humans</i> Abstract	Central	11	Champlin Park High School	Male	Brooklyn Park	4th
Beckman Coulter Award	2nd Place High School	Portu	Michael	<i>Loading Forces Experienced by Heart during High School Athletic Impacts</i> Abstract	Twin Cities	12	Breck School, Minneapolis	Male	Edina	1st
Beckman Coulter Award	3rd Place High School	Ishitani	Michael	<i>No Need for a Toupe'e if You've Got PAPP-A: The Role of PAPP-A in Hair Growth</i> Abstract	Rochester	11	Mayo High School	Male	Rochester	2nd
Beckman Coulter Award	4th Place High School	Krych	Matt	<i>Effective Hand-Washing</i> Abstract	Central	9	Champlin Park High School	Male	Champlin	3rd
Beckman Coulter Award	1st Place Middle School	Chen	Yuqi	<i>Edible Organic Antifreeze: How antifreeze proteins in extract solution of <i>Lilium lancifolium</i> bulbs affect the quality of frozen foods</i> Abstract	Northeast	8	Woodland Middle School	Male	Duluth	2nd
Beckman Coulter Award	2nd Place Middle School	Radtke	Tyler	<i>Which Orange Juice Has the Most Vitamin C?</i> Abstract	Twin Cities	7	Oak Land Junior High	Male	Lakeland	1st
Beckman Coulter Award	3rd Place Middle School	Hearne	Annabelle	<i>Pitter Patter Goes My Heart: The Effect of Caffeine on Heart Rate in <i>Daphnia magna</i></i> Abstract	Twin Cities	7	Stillwater Junior High	Female	Stillwater	1st
		Huna	Madison			7	Stillwater Junior High	Female	Stillwater	1st
Beckman Coulter Award	4th Place Middle School	Bradley	Hannah	<i>Washable or Flammable? Washability on Flame Resistant Fabrics</i> Abstract	South Central, Southwest	8	Loyola Catholic School	Female	North Mankato	1st
		Ninneman	Mary			8	Loyola Catholic School	Female	Mankato	1st

## BioGENEius

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑		↑	↑	↑	↑	↑	↑	↑
BioGENEius Challenge Award	Winner	Chen	Evan	<i>CD24 induced muscular regeneration: Unraveling the mystery behind satellite cell differentiation</i> Abstract	Twin Cities	11	Wayzata Senior High School	Male	Plymouth	1st
BioGENEius Challenge Award	Winner	Campeau	David	<i>Brain Computer Interface</i> Abstract	Rochester	10	Mayo High School	Male	Rochester	4th

## Broadcom MASTERS (Math, Applied Science, Technology and Engineering for Rising Stars)

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑		↑	↑	↑	↑	↑	↑	↑
Broadcom MASTERS	Best in	Ekblad	Ellie	<i>Does the Pursuit of Happiness</i>	Rochester	8	Lincoln K-8	Female	Rochester	2nd

Award	Category			Include Vitamin D? Abstract			Choice, Rochester			
Broadcom MASTERS Award	Best in Category	Hearne	Annabelle	Pitter Patter Goes My Heart: The Effect of Caffeine on Heart Rate in <i>Daphnia magna</i> Abstract	Twin Cities	7	Stillwater Junior High	Female	Stillwater	1st
		Huna	Madison			7		Female		1st
Broadcom MASTERS Award	Best in Category	Boecker	Noah	A Sticky Situation: Investigating the elements' effect on football glove performance Abstract	Rochester	8	Kellogg Middle School	Male	Rochester	1st
Broadcom MASTERS Award	Best in Category	Bram	Alanna	Regulation of Skin Temperature Using Biofeedback Abstract	Rochester	8	John Adams Middle School	Female	Rochester	3rd
Broadcom MASTERS Award	Best in Category	Breza	Parker	Fuel It Up With Algae Abstract	South Central, Southwest	8	St. Huberts School	Male	Victoria	2nd
Broadcom MASTERS Award	Best in Category	Cage	Walker	Washed Away Abstract	Northern	7	Bagley Secondary School	Male	Bagley	1st
Broadcom MASTERS Award	Best in Category	Chen	Yuqi	Edible Organic Antifreeze: How antifreeze proteins in extract solution of <i>Lilium lancifolium</i> bulbs affect the quality of frozen foods Abstract	Northeast	8	Woodland Middle School	Male	Duluth	2nd
Broadcom MASTERS Award	Best in Category	Fredrick	Ryan	Hollowood Be Thy Game? Abstract	Central	8	Jackson Middle School, Champlin	Male	Brooklyn Park	1st
		Watkins	Caleb			8		Male		1st
Broadcom MASTERS Award	Best in Category	Fu	Lisa	Medicinal Effects of Dandelions Abstract	Rochester	8	Friedell Middle School	Female	Rochester	2nd
Broadcom MASTERS Award	Best in Category	Jons	Carolyn	The Effect of Soap Bubble Size on the Insulation Ability of Foams Abstract	Twin Cities	7	Central Middle School, Eden Prairie	Female	Eden Prairie	1st
Broadcom MASTERS Award	Best in Category	Nelson	Sydney	What Not to Wear: A Study on Bacterial Colony Counts on the Clothing of Healthcare Providers Abstract	Northeast	8	Woodland Middle School	Female	Duluth	2nd
Broadcom MASTERS Award	Best in Category	Hearne	Annabelle	Pitter Patter Goes My Heart: The Effect of Caffeine on Heart Rate in <i>Daphnia magna</i> Abstract	Twin Cities	7	Stillwater Junior High	Female	Stillwater	1st
		Huna	Madison			7		Female		1st
Broadcom MASTERS Award	Best in Category	Chelseth	Michael	Stoplight Push Button - Will it really make the light turn faster? Abstract	Northeast	7	Holy Rosary School	Male	Duluth	1st
Broadcom MASTERS	Best in	Reger	Kelly	Soil of the Future:	Twin Cities	8	Our Lady Of	Female	Bloomington	1st

<b>Award</b>	<b>Category</b>			<i>Hydroponics, Aeroponics, or Soil? Abstract</i>			Grace Catholic School			
<b>Broadcom MASTERS Award</b>	<b>Best in Category</b>	<b>Klages-Mundt</b>	<b>Teva</b>	<i>The Effects of Blade Angle on Water Turbines Abstract</i>	Southeast	8	Winona Middle School	Male	Winona	2nd
<b>Broadcom MASTERS Award</b>	<b>Best in Category</b>	<b>Asirvatham</b>	<b>Roshini</b>	<i>Cross My Heart And Hope to get Smarter Cognitive Benefits of a Yogic Exercise Abstract</i>	Rochester	7	Friedell Middle School	Female	Rochester	1st
<b>Broadcom MASTERS Award</b>	<b>Best in Category</b>	<b>Nachtsheim</b>	<b>Maddison</b>	<i>Behind the Myth: Monosodium Glutamate Abstract</i>	Northeast	8	Woodland Middle School	Female	Duluth	1st
<b>Broadcom MASTERS Award</b>	<b>Best in Category</b>	<b>Mishra</b>	<b>Ridhima</b>	<i>pH Power: Future State Soy Batteries Abstract</i>	Twin Cities	7	Dakota Hills Middle School	Female	Eagan	2nd
<b>Broadcom MASTERS Award</b>	<b>Best in Category</b>	<b>Kohli</b>	<b>Tanvi</b>	<i>Internet Use and Academic Achievement amongst Pre-adolescents Abstract</i>	Rochester	7	Friedell Middle School	Female	Rochester	1st
<b>Broadcom MASTERS Award</b>	<b>Best in Category</b>	<b>Reddan</b>	<b>Emily</b>	<i>Butterfly Buffet Abstract</i>	South Central, Southwest	8	St. Huberts School	Female	Chaska	1st
<b>Broadcom MASTERS Award</b>	<b>Best in Category</b>	<b>Sheehy</b>	<b>Audrey</b>	<i>Hydroponics vs. Ionized Hydroponics Abstract</i>	Twin Cities	7	Our Lady Of Grace Catholic School	Female	Minneapolis	1st
<b>Broadcom MASTERS Award</b>	<b>Best in Category</b>	<b>Smith</b>	<b>Camille</b>	<i>Does Sensory Deprivation Affect Retention of Content? Abstract</i>	Twin Cities	8	FAIR School Crystal	Female	New Hope	2nd
<b>Broadcom MASTERS Award</b>	<b>Best in Category</b>	<b>Renier</b>	<b>Tim</b>	<i>Can a Multifactor Hand Hygiene Intervention, Delivered Over Time, Improve Effectiveness of Hand Hygiene and Reduce Absence Rates Due to Illness Among Middle and Elementary School Students? A Phase 2 Experiment Abstract</i>	Northeast	8	Holy Rosary School	Male	Duluth	2nd
<b>Broadcom MASTERS Award</b>	<b>Best in Category</b>	<b>Fredrick</b>	<b>Ryan</b>	<i>Hollowood Be Thy Game? Abstract</i>	Central	8	Jackson Middle School, Champlin	Male	Brooklyn Park	1st
		<b>Watkins</b>	<b>Caleb</b>			8	Jackson Middle School, Champlin	Male	Champlin	1st
<b>Broadcom MASTERS Award</b>	<b>Best in Category</b>	<b>Yarosh</b>	<b>Micaela</b>	<i>The Sound of Music Abstract</i>	Twin Cities	8	Murray Junior High School	Female	St. Paul	2nd

## College of St. Scholastica

<b>Award</b>	<b>Place</b>	<b>Won By</b>	<b>Title</b>	<b>Region</b>	<b>Grade</b>	<b>School</b>	<b>Gender</b>	<b>City</b>	<b># Fairs</b>
↑ College of St.	↑ Best Project	↑ Campeau	↑ David	↑ Rochester	↑ 10	↑ Mayo High School	↑ Male	↑ Rochester	↑ 4th

Scholastica Creative Computing Award				Abstract						
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## General Mills

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
General Mills Food & Nutrition Award	High School	Alper	Emily	Targeting Genes In Salmonella Kentucky Associated With Food-Borne Illnesses Abstract	Twin Cities	12	Breck School, Minneapolis	Female	Minneapolis	1st
		Haeg	Eleanore			12		Breck School, Minneapolis	Female	Wayzata
		General Mills Food & Nutrition Award	Middle School			Chen	Yuqi	Northeast	8	Woodland Middle School

## MAS (MN Academy of Science)

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
Grand Awards - Bronze	Winner	Glenna	Katelyn	Effects of Sound Waves on Mating Behaviors in Drosophila Melanogaster Year II Abstract	Southeast	12	Winona High School	Female	Minnesota City	2nd
		Quandahl	Samantha			12		Winona High School	Female	Winona
		Wildenborg	Alli			12	Winona High School	Female	Winona	2nd
						12	Winona High School	Female	Winona	2nd
Grand Awards - Bronze	Winner	Zhang	Yinshuo	Solar Energy for All: Low-Cost Residential Concentrator Photovoltaic System Design Abstract	South Central, Southwest	11	Mankato West Sr. High School	Male	Mankato	1st
Grand Awards - Bronze	Winner	Ishitani	Michael	No Need for a Toupe'e if You've Got PAPP-A: The Role of PAPP-A in Hair Growth Abstract	Rochester	11	Mayo High School	Male	Rochester	2nd
Grand Awards - Bronze	Winner	Zhang	Rowena	Cerebral Hemispheres and Learning: A Study of the Correlation between Brain Dominations and Learning Styles Abstract	Rochester	10	Century High School	Female	Rochester	1st
Grand Awards - Bronze	Winner	Farah	Omar	Light Efficiencies: A Key to Saving the World Abstract	Central	10	Al-Amal School	Male	Blaine	1st
		Islam	Muhammad			10	Al-Amal School	Male	Blaine	1st
		Muhammad	Mayzer			10	Al-Amal School	Male	New Brighton	1st



Grand Awards - Bronze	Winner	Hellevik	Jacob	<i>Cheep, Cheep, or Cherry Abstract</i>	South Central, Southwest	8	St. Marys - Marian, Owatonna	Male	Medford	1st
Grand Awards - Bronze	Winner	Henneck	Leo	<i>Catch the Wave(lenth) Abstract</i>	Northeast	8	Woodland Middle School	Male	Duluth	1st
Grand Awards - Bronze	Winner	Suman	William Tyler	<i>Dissolving Pills Abstract</i>	Southeast	7	Cotter Junior High	Male	St. Charles	1st
Grand Awards - Bronze	Winner	Oberle	Claire	<i>Should I Stay or Should I Go? Abstract</i>	South Central, Southwest	8	St. Huberts School	Female	Shorewood	1st
Grand Awards - Bronze	Winner	Ommen	Claire	<i>Don't Judge a Book by Its Cover Abstract</i>	Rochester	8	Friedell Middle School	Female	Rochester	1st
		van Deursen	Hanneke			8	Friedell Middle School	Female	Rochester	1st
Grand Awards - Bronze	Winner	Wilson	Eleanor	<i>Lunar Dust: A Pesky Problem Abstract</i>	Rochester	7	Schaeffer Academy	Female	Rochester	1st
Grand Awards - Bronze	Winner	Seeley	Megan	<i>The Effects Of Flame Retardants On Green Algae And Cyanobacteria Abstract</i>	Southeast	10	Winona High School	Female	Winona	3rd
Grand Awards - Bronze	Winner	Glenna	Katelyn	<i>Effects of Sound Waves on Mating Behaviors in Drosophila Melanogaster Year II Abstract</i>	Southeast	12	Winona High School	Female	Minnesota City	2nd
		Quandahl	Samantha			12	Winona High School	Female	Winona	2nd
		Wildenborg	Alli			12	Winona High School	Female	Winona	2nd
						12	Winona High School	Female	Winona	2nd
Grand Awards - Bronze	Winner	Stock	Sydney	<i>Kitchen Fires: where should your stove be? Abstract</i>	Northeast	8	Woodland Middle School	Female	Duluth	2nd
Grand Awards - Bronze	Winner	Smith	Sierra	<i>Looking Close at Lactose Abstract</i>	Central	7	Calvin Christian School	Female	Blaine	1st
Grand Awards - Bronze	Winner	Jain	Naveen	<i>Mechanism of Tumor Suppression by CHD5 Abstract</i>	Twin Cities	11	Wayzata Senior High School	Male	Plymouth	1st
Grand Awards - Bronze	Winner	Wilson	Mara	<i>Detecting Deception: Testing the Correlation between Movement and Validity Abstract</i>	Rochester	9	Schaeffer Academy	Female	Rochester	2nd
		Wright	Katherine			9	Schaeffer Academy	Female	Rochester	1st
Grand Awards - Bronze	Winner	Lerdahl	Matthew	<i>The Correlation Between Lying and Pupil Dilatation Abstract</i>	Central	9	Coon Rapids High School	Male	Coon Rapids	1st
Grand Awards - Bronze	Winner	Glenna	Katelyn	<i>Effects of Sound Waves on Mating Behaviors in Drosophila Melanogaster Year II</i>	Southeast	12	Winona High School	Female	Minnesota City	2nd
		Quandahl	Samantha			12	Winona High School	Female	Minnesota City	2nd



		<b>Wildenborg</b>	<b>Alli</b>	<i>Abstract</i>		12	Winona High School	Female	Winona	2nd
							Winona High School		Winona	
<b>Grand Awards - Bronze</b>	<b>Winner</b>	<b>Brunson</b>	<b>Erica</b>	<i>An Investigation of Rotor Blade Designs for Wind Turbines</i> <i>Abstract</i>	South Central, Southwest	12	Mankato West Sr. High School	Female	North Mankato	1st
		<b>Kumar</b>	<b>Jai</b>			12	Mankato West Sr. High School	Male	Mankato	2nd
<b>Grand Awards - Bronze</b>	<b>Winner</b>	<b>Kerska</b>	<b>Denika</b>	<i>Clean Teeth</i> <i>Abstract</i>	Southeast	7	La Crescent Middle School	Female	La Crescent	1st
<b>Grand Awards - Bronze</b>	<b>Winner</b>	<b>Poellinger</b>	<b>Evan</b>	<i>Plants Healing Plants</i> <i>Abstract</i>	Southeast	7	La Crescent Middle School	Male	La Crescent	1st
<b>Grand Awards - Bronze</b>	<b>Winner</b>	<b>Bradley</b>	<b>Hannah</b>	<i>Washable or Flammable? Washability on Flame Resistant Fabrics</i> <i>Abstract</i>	South Central, Southwest	8	Loyola Catholic School	Female	North Mankato	1st
		<b>Ninneman</b>	<b>Mary</b>			8	Loyola Catholic School	Female	Mankato	1st
<b>Grand Awards - Bronze</b>	<b>Winner</b>	<b>Larson</b>	<b>Leah</b>	<i>UV-Vis Monitoring of Fading in Color-treated Gray/Non-gray Hair</i> <i>Abstract</i>	Northern	11	Bemidji Senior High School	Female	Bemidji	3rd
<b>Grand Awards - Bronze</b>	<b>Winner</b>	<b>Ekker</b>	<b>Michael</b>	<i>Microbial Fuel Cells using Saccharomyces cerevisiae</i> <i>Abstract</i>	Rochester	10	Century High School	Male	Rochester	2nd
		<b>Olson-Williams</b>	<b>Hannah</b>			11	Mayo High School	Female	Rochester	1st
		<b>Trenerry</b>	<b>Michael</b>			10	Century High School	Male	Rochester	3rd
<b>Grand Awards - Bronze</b>	<b>Winner</b>	<b>Brunson</b>	<b>Erica</b>	<i>An Investigation of Rotor Blade Designs for Wind Turbines</i> <i>Abstract</i>	South Central, Southwest	12	Mankato West Sr. High School	Female	North Mankato	1st
		<b>Kumar</b>	<b>Jai</b>			12	Mankato West Sr. High School	Male	Mankato	2nd
<b>Grand Awards - Bronze</b>	<b>Winner</b>	<b>Bradley</b>	<b>Hannah</b>	<i>Washable or Flammable? Washability on Flame Resistant Fabrics</i> <i>Abstract</i>	South Central, Southwest	8	Loyola Catholic School	Female	North Mankato	1st
		<b>Ninneman</b>	<b>Mary</b>			8	Loyola Catholic School	Female	Mankato	1st
<b>Grand Awards - Bronze</b>	<b>Winner</b>	<b>Jiang</b>	<b>Hongyi (David)</b>	<i>Soundboard Symphony</i> <i>Abstract</i>	Rochester	8	Kellogg Middle School	Male	Rochester	1st
<b>Grand Awards - Bronze</b>	<b>Winner</b>	<b>Pakzad</b>	<b>Paimon</b>	<i>Characterization of Benign Nevi and Malignant Melanomas using Signature Curves</i> <i>Abstract</i>	Twin Cities	11	Blake Upper School	Male	Wayzata	3rd
<b>Grand Awards - Bronze</b>	<b>Winner</b>	<b>Ommen</b>	<b>Claire</b>	<i>Don't Judge a Book by Its Cover</i> <i>Abstract</i>	Rochester	8	Friedell Middle School	Female	Rochester	1st

		van Deursen	Hanneke			8	Friedell Middle School	Female	Rochester	1st
Grand Awards - Bronze	Winner	Limkar	Ajinkya	H2O2 Hydrogermination Abstract	Central	8	Jackson Middle School, Champlin	Male	Brooklyn Park	2nd
Grand Awards - Bronze	Winner	Butler	Jonah	Comparing the Percentages of Cellulose, Glucose, and Ethanol Found in Various Agricultural Waste Products That Have Been Converted to Cellulosic Ethanol Using Enzymes Abstract	South Central, Southwest	8	Sibley East-Gaylord Junior High	Male	Glencoe	2nd
Grand Awards - Bronze	Winner	Lim	Savannah	The Influences of Packaging Color of Teenage Female Consumers' Preferences of Bottled Bath Products Abstract	Twin Cities	10	Burnsville High School	Female	Burnsville	1st
Grand Awards - Bronze	Winner	Mukherjee	Rahul	Macroalgae As An Alternative Source Of Biodiesel: From Balancing the Aquatic Ecosystem of the Great Lakes To The Industrial Utilization of Native Algae Abstract	Rochester	11	John Marshall High School	Male	Rochester	1st
Grand Awards - Bronze	Winner	Mai	Gavin	Music and the Mind Abstract	Rochester	9	Century High School	Male	Rochester	3rd
Grand Awards - Bronze	Winner	Wilson	Mara	Detecting Deception: Testing the Correlation between Movement and Validity Abstract	Rochester	9	Schaeffer Academy	Female	Rochester	2nd
		Wright	Katherine			9	Schaeffer Academy	Female	Rochester	1st
Grand Awards - Bronze	Winner	Blosberg	Emily	Remember That? Abstract	Twin Cities	8	Cyber Village Academy	Female	Shoreview	2nd
Grand Awards - Bronze	Winner	Farah	Omar	Light Efficiencies: A Key to Saving the World Abstract	Central	10	Al-Amal School	Male	Blaine	1st
		Islam	Muhammad			10	Al-Amal School	Male	Blaine	1st
		Muhammad	Mayzer			10	Al-Amal School	Male	New Brighton	1st
Grand Awards - Bronze	Winner	Kleinschmidt	Ann	Does Fertilizer Contamination and Concentration Affect the Aquatic Organism Daphnia Pullex and Ecosystem? Abstract	Northeast	8	Holy Rosary School	Female	Duluth	1st
Grand Awards - Bronze	Winner	Sather	Karin	Effects of Urban Trees on Water Quality: A Comparison of Different Tree Species as Sources of Nutrients to Urban Water Bodies Abstract	Central	12	Champlin Park High School	Female	Champlin	4th
Grand Awards - Bronze	Winner	Broderius	Mark	What is the water quality of	South	8	Glencoe-Silver	Male	Glencoe	2nd

				<i>Buffalo Creek before, during, and after it passes by a food processing plant and the city of Glencoe?</i> Abstract	Central, Southwest		Lake Lincoln Junior High			
Grand Awards - Bronze	Winner	Ekker	Michael	<i>Microbial Fuel Cells using Saccharomyces cerevisiae</i> Abstract	Rochester	10	Century High School	Male	Rochester	2nd
		Olson-Williams	Hannah			11		Female	Rochester	1st
		Trenerry	Michael			10		Male	Rochester	3rd
Grand Awards - Bronze	Winner	Carter	Gabby	<i>Worm vs. Worm</i> Abstract	South Central, Southwest	8	St. Huberts School	Female	Chanhassen	1st
		Wagner	Miquela			8	St. Huberts School	Female	Eden Prairie	1st
Grand Awards - Bronze	Winner	Ylitalo	Andy	<i>Power Up! Experimental Design and Mathematical Optimization of A Dual Rotor Wind Turbine</i> Abstract	Twin Cities	10	Stillwater Area High School	Male	Stillwater	4th
Grand Awards - Bronze	Winner	Rung	Bailey	<i>Mold Growth on Cheese</i> Abstract	Central	9	Blaine High School	Male	Blaine	1st
Grand Awards - Bronze	Winner	Jackson	Courtney	<i>The Coronae Paradox: The use of Visual Basic to determine circular low formation based upon maps created using Magellan radar data in order to determine the process(es) of coranae formation and the overall geologic history of circular lows on Venus—Phase IV</i> Abstract	Northeast	12	Cloquet High School	Female	Cloquet	7th
Grand Awards - Bronze	Winner	Ware	Benjamin	<i>Clean Energy</i> Abstract	Northern	8	Laporte Public School	Male	Laporte	1st
Grand Awards - Bronze	Winner	Wang	Lawrence	<i>Bile Acids: Potent Agents for Improving Kidney Cryopreservation</i> Abstract	Twin Cities	12	Wayzata Senior High School	Male	Maple Grove	1st
Grand Awards - Bronze	Winner	Sun	Annie	<i>Can You Survive?</i> Abstract	Rochester	8	Friedell Middle School	Female	Rochester	1st
Grand Awards - Bronze	Winner	Spring	Dacey	<i>The Effects of Different Composts on Tropaeolum Majus Growth</i> Abstract	Southeast	7	Winona Middle School	Female	Minnesota City	1st
Grand Awards - Bronze	Winner	Derrick	Chelsea	<i>Mapping The Geology of Mars: The Use of The Themis Thermal Inertia Imaging Index To Inform Future Exploration and Sampling Sites</i> Abstract	Northeast	10	Cloquet High School	Female	Carlton	4th
Grand Awards - Bronze	Winner	Farah	Omar	<i>Light Efficiencies: A Key to Saving the World</i> Abstract	Central	10	Al-Amal School	Male	Blaine	1st
		Islam	Muhammad			10	Al-Amal School	Male	Blaine	1st

		Muhammad	Mayzer			10	Al-Amal School	Male	New Brighton	1st
Grand Awards - Bronze	Winner	Johnson	Devin	<i>Proteome Probabilities: A Statistical Analysis to Discover Protein Motifs in the Human Proteome Abstract</i>	Northeast	8	Woodland Middle School	Male	Duluth	2nd
Grand Awards - Bronze	Winner	Ferrari	Kaitlin	<i>Which Airfoil Produces the Most Lift? Abstract</i>	Northeast	7	Holy Rosary School	Female	Two Harbors	1st
Grand Awards - Bronze	Winner	Charon	Caleb	<i>What effect does the use of the Web 2.0 tool Wikispaces have on computer/technology confidence? Abstract</i>	Northeast	8	Cloquet Middle School	Male	Cloquet	1st
Grand Awards - Bronze	Winner	Cline	Meara	<i>Throwing Straight with Added Weight: A Study of How Weight Affects the Flight of Frisbees Abstract</i>	Twin Cities	7	Friends School Of MN	Female	St. Paul	1st
Grand Awards - Bronze	Winner	Campeau	Michelle	<i>Honey: The Natural Cure Abstract</i>	Rochester	8	Friedell Middle School	Female	Rochester	2nd
Grand Awards - Bronze	Winner	Chmelar	Andrew	<i>Does Mass and Rate of Vibration Affect the Depth an Object Descends During Liquefaction? Abstract</i>	South Central, Southwest	8	St. Marys School, Sleepy Eye	Male	Redwood Falls	1st
Grand Awards - Bronze	Winner	Madlom	Lexi	<i>Is Earth's Best Friend Slimy &amp; Green? Algae Based Nutrient Extraction From Eutrophic River Water Abstract</i>	Western	8	Park Christian School	Female	Fargo	2nd
Grand Awards - Bronze	Winner	Fryxell	Anna	<i>Mirror Tracing and Math Abstract</i>	Twin Cities	8	Murray Junior High School	Female	St. Paul	1st
Grand Awards - Bronze	Winner	Fuad	David	<i>Preventing microalgae (Chlamydomonas reinhardtii) build-up in photobioreactors for biofuel production efficiency Abstract</i>	Twin Cities	12	Breck School, Minneapolis	Male	Eden Prairie	1st
Grand Awards - Bronze	Winner	Carter	Gabby	<i>Worm vs. Worm Abstract</i>	South Central, Southwest	8	St. Huberts School	Female	Chanhausen	1st
		Wagner	Miquela			8	St. Huberts School	Female	Eden Prairie	1st
Grand Awards - Bronze	Winner	Bhattacharya	Anushua	<i>Silver Nanoparticle Affect Cell Messenger Delivery Abstract</i>	Twin Cities	11	East Ridge High School	Female	Woodbury	3rd
Grand Awards - Bronze	Winner	Berglund	Spencer	<i>Regaining Arm Movement through the Use of a Robotic Orthosis Abstract</i>	Rochester	10	Mayo High School	Male	Rochester	2nd
Grand Awards - Bronze	Winner	Elkwae	Kareem	<i>Tough Beans: Which cooking liquids slows softening the most? Abstract</i>	Rochester	7	Kellogg Middle School	Male	Rochester	1st
Grand Awards - Bronze	Winner	Ekker	Michael	<i>Microbial Fuel Cells using Saccharomyces cerevisiae Abstract</i>	Rochester	10	Century High School	Male	Rochester	2nd
		Olson-Williams	Hannah			11	Mayo High School	Female	Rochester	1st

		Treerry	Michael			10	Century High School	Male	Rochester	3rd
Grand Awards - Bronze	Winner	Culliton	John	Engineering Engine Maps to Determine Peak Efficiency for a Hydraulic Hybrid Passenger Vehicle Abstract	Twin Cities	12	Breck School, Minneapolis	Male	Wayzata	1st
Grand Awards - Gold	Winner	Alper	Emily	Targeting Genes In Salmonella Kentucky Associated With Food-Borne Illnesses Abstract	Twin Cities	12	Breck School, Minneapolis	Female	Minneapolis	1st
		Haeg	Eleanore			12	Breck School, Minneapolis	Female	Wayzata	1st
Grand Awards - Gold	Winner	Boecker	Noah	A Sticky Situation: Investigating the elements' effect on football glove performance Abstract	Rochester	8	Kellogg Middle School	Male	Rochester	1st
Grand Awards - Gold	Winner	Fredrick	Ryan	Hollowood Be Thy Game? Abstract	Central	8	Jackson Middle School, Champlin	Male	Brooklyn Park	1st
		Watkins	Caleb			8	Jackson Middle School, Champlin	Male	Champlin	1st
Grand Awards - Gold	Winner	Bram	Alanna	Regulation of Skin Temperature Using Biofeedback Abstract	Rochester	8	John Adams Middle School	Female	Rochester	3rd
Grand Awards - Gold	Winner	Asirvatham	Roshini	Cross My Heart And Hope to get Smarter Cognitive Benefits of a Yogic Exercise Abstract	Rochester	7	Friedell Middle School	Female	Rochester	1st
Grand Awards - Gold	Winner	Anderson	Martin	Specific Impulse of Traditional Black Powder Rocket Engines in the Pyrotechnics Industry: Engineering an Improved Static Test Apparatus / Utilizing it to Analyze Performance and Quality of Traditional Versus Modern Manufacturing Methods Abstract	Twin Cities	12	Burnsville High School	Male	Burnsville	2nd
Grand Awards - Gold	Winner	Fu	Lisa	Medicinal Effects of Dandelions Abstract	Rochester	8	Friedell Middle School	Female	Rochester	2nd
Grand Awards - Gold	Winner	Smith	Camille	Does Sensory Deprivation Affect Retention of Content? Abstract	Twin Cities	8	FAIR School Crystal	Female	New Hope	2nd
Grand Awards - Gold	Winner	Yarosh	Micaela	The Sound of Music Abstract	Twin Cities	8	Murray Junior High School	Female	St. Paul	2nd
Grand Awards - Gold	Winner	Fredrick	Ryan	Hollowood Be Thy Game? Abstract	Central	8	Jackson Middle School, Champlin	Male	Brooklyn Park	1st
		Watkins	Caleb			8	Jackson Middle School, Champlin	Male	Champlin	1st

Grand Awards - Gold	Winner	Renier	Tim	<i>Can a Multifactor Hand Hygiene Intervention, Delivered Over Time, Improve Effectiveness of Hand Hygiene and Reduce Absence Rates Due to Illness Among Middle and Elementary School Students? A Phase 2 Experiment</i> Abstract	Northeast	8	Holy Rosary School	Male	Duluth	2nd
Grand Awards - Gold	Winner	Reger	Kelly	<i>Soil of the Future: Hydroponics, Aeroponics, or Soil?</i> Abstract	Twin Cities	8	Our Lady Of Grace Catholic School	Female	Bloomington	1st
Grand Awards - Gold	Winner	Nothom	Nick	<i>The Aurora Accelerator</i> Abstract	South Central, Southwest	11	Waconia High School	Male	Waconia	1st
Grand Awards - Gold	Winner	Nachtsheim	Maddison	<i>Behind the Myth: Monosodium Glutamate</i> Abstract	Northeast	8	Woodland Middle School	Female	Duluth	1st
Grand Awards - Gold	Winner	Kohli	Tanvi	<i>Internet Use and Academic Achievement amongst Pre-adolescents</i> Abstract	Rochester	7	Friedell Middle School	Female	Rochester	1st
Grand Awards - Gold	Winner	Klemenhausen	Connor	<i>The Diversification of Turf Grass Species by Means of Biodiversity, Phase II</i> Abstract	Central	10	Champlin Park High School	Male	Dayton	3rd
Grand Awards - Gold	Winner	Hearne	Annabelle	<i>Pitter Patter Goes My Heart: The Effect of Caffeine on Heart Rate in Daphnia magna</i> Abstract	Twin Cities	7	Stillwater Junior High	Female	Stillwater	1st
		Huna	Madison			7	Stillwater Junior High	Female	Stillwater	1st
Grand Awards - Gold	Winner	Hearne	Annabelle	<i>Pitter Patter Goes My Heart: The Effect of Caffeine on Heart Rate in Daphnia magna</i> Abstract	Twin Cities	7	Stillwater Junior High	Female	Stillwater	1st
		Huna	Madison			7	Stillwater Junior High	Female	Stillwater	1st
Grand Awards - Gold	Winner	Ghosh	Aditya	<i>Fingerprint of Type 1 Diabetes Using Metabolomics</i> Abstract	Rochester	12	Mayo High School	Male	Rochester	1st
Grand Awards - Gold	Winner	Cao	Xiuqi	<i>The Effects of Micro-algae Characteristics on the Bioremediation Rate of Deepwater Horizon Crude Oil</i> Abstract	Rochester	10	Century High School	Male	Rochester	3rd
		Xiong	Ying			10	Century High School	Male	Rochester	2nd
Grand Awards - Gold	Winner	Breza	Parker	<i>Fuel It Up With Algae</i> Abstract	South Central, Southwest	8	St. Huberts School	Male	Victoria	2nd
Grand Awards - Gold	Winner	Alper	Emily	<i>Targeting Genes In Salmonella Kentucky Associated With Food-Borne Illnesses</i> Abstract	Twin Cities	12	Breck School, Minneapolis	Female	Minneapolis	1st
		Haeg	Eleanore			12	Breck School,	Female	Wayzata	1st



Grand Awards - Gold	Winner	Cao	Xiuqi	<i>The Effects of Micro-algae Characteristics on the Bioremediation Rate of Deepwater Horizon Crude Oil Abstract</i>	Rochester	10	Minneapolis Century High School	Male	Rochester	3rd
		Xiong	Ying			10	Century High School	Male	Rochester	2nd
Grand Awards - Gold	Winner	Sigafoos	Travis	<i>A clinical and epidemiological approach to the relationship between Attention Deficit Hyperactivity Disorder (ADHD) and sleep/wake disorders Abstract</i>	Central	11	Champlin Park High School	Male	Champlin	3rd
Grand Awards - Silver	Winner	LaGrange	Andrew	<i>A Study of Delta Design Abstract</i>	Central	8	Jackson Middle School, Champlin	Male	Champlin	2nd
Grand Awards - Silver	Winner	Nelson	Sydney	<i>What Not to Wear: A Study on Bacterial Colony Counts on the Clothing of Healthcare Providers Abstract</i>	Northeast	8	Woodland Middle School	Female	Duluth	2nd
Grand Awards - Silver	Winner	Mishra	Ridhima	<i>pH Power: Future State Soy Batteries Abstract</i>	Twin Cities	7	Dakota Hills Middle School	Female	Eagan	2nd
Grand Awards - Silver	Winner	Weiler	Addison	<i>Improving Efficiency of Organic Solar Cells using Lead Phthalocyanine Abstract</i>	Twin Cities	12	Breck School, Minneapolis	Male	Edina	2nd
Grand Awards - Silver	Winner	Prince	Aris	<i>Has nuclear radiation fallout in Japan and Chernobyl altered plant response to UV-B radiation? A study of Arabidopsis thaliana response to UV-B Abstract</i>	Twin Cities	11	Breck School, Minneapolis	Female	Richfield	1st
		Vijayakar	Roshny			11	Breck School, Minneapolis	Female	Golden Valley	1st
Grand Awards - Silver	Winner	Campeau	David	<i>Brain Computer Interface Abstract</i>	Rochester	10	Mayo High School	Male	Rochester	4th
Grand Awards - Silver	Winner	Erdmann	Tom	<i>Synthesis and Purification of Indene Derivatives for Organic Photovoltaic Devices Abstract</i>	Twin Cities	12	Breck School, Minneapolis	Male	Shorewood	1st
Grand Awards - Silver	Winner	Lauschke	Lisa	<i>H2OH! Abstract</i>	South Central, Southwest	7	St. Huberts School	Female	Chanassen	1st
Grand Awards - Silver	Winner	Ahmed	Ishmam	<i>Regulation of Sonic hedgehog expression and activity during differentiation of human pluripotent stem cells Abstract</i>	Twin Cities	11	Wayzata Senior High School	Male	Plymouth	1st
Grand Awards - Silver	Winner	Larson	Andrew	<i>Got Trout? A Water Quality Comparison of Trout Streams in Clearwater County Abstract</i>	Northern	10	Bagley Secondary School	Male	Bagley	3rd



Grand Awards - Silver	Winner	Kowalchyk	Cara	Investigating the use of <i>Pseudomonas putida</i> Fu1 to clean up toxic furan agricultural byproducts in soil to prevent runoff into water supplies Abstract	Twin Cities	12	Breck School, Minneapolis	Female	Plymouth	1st
		Southern	Rebecca			12		Female	Deephaven	1st
Grand Awards - Silver	Winner	Duke	Marlena	Phantom Pharmaceuticals: What effect does ibuprofen treated with ultraviolet light in clear lake water (Lake Superior) and tannic stained river water (St. Louis River) have on <i>Selenastrum capricornutum</i> and <i>Lemna minor</i> reproduction and survival: Phase III? Abstract	Northeast	10	Cloquet High School	Female	Cloquet	3rd
		Moynan	Angela			10		Female	Cloquet	3rd
Grand Awards - Silver	Winner	Gomez	Marcus	Deconstructing Resilience: Analyzing the Effect of Psychological and Non-Psychological Factors on Adaptability to Stress Abstract	Rochester	9	Century High School	Male	Zumbrota	1st
Grand Awards - Silver	Winner	Klages-Mundt	Teva	The Effects of Blade Angle on Water Turbines Abstract	Southeast	8	Winona Middle School	Male	Winona	2nd
Grand Awards - Silver	Winner	Kiely	Daniel	Eddy Current Braking Abstract	Twin Cities	7	Our Lady Of Grace Catholic School	Male	Edina	1st
Grand Awards - Silver	Winner	Damania	Samarth	Computer Analysis of Player and Team Performance in Professional Halo 3 Abstract	Twin Cities	11	Breck School, Minneapolis	Male	Maple Grove	1st
Grand Awards - Silver	Winner	Sun	Bo	Establishment of long-term cultures of newt cardiomyocytes for use as an in vitro model for heart regeneration Abstract	Twin Cities	12	Wayzata Senior High School	Female	Plymouth	1st
Grand Awards - Silver	Winner	Gopinath	Sidharth	Determining the Relative Effectiveness of Water Purification Techniques Used in Developing Nations Abstract	Twin Cities	10	Hopkins High School	Male	Minnetonka	1st
		Rao	Sachin			10		Male	Golden Valley	1st
Grand Awards - Silver	Winner	Duke	Marlena	Phantom Pharmaceuticals: What effect does ibuprofen treated with ultraviolet light in clear lake water (Lake Superior) and tannic stained river water (St. Louis River) have on <i>Selenastrum capricornutum</i> and <i>Lemna minor</i> reproduction and survival: Phase III? Abstract	Northeast	10	Cloquet High School	Female	Cloquet	3rd
		Moynan	Angela			10		Female	Cloquet	3rd
Grand Awards - Silver	Winner	Chen	Evan	CD24 induced muscular regeneration: Unraveling the	Twin Cities	11	Wayzata Senior High School	Male	Plymouth	1st

				mystery behind satellite cell differentiation Abstract						
Grand Awards - Silver	Winner	Dunn	Janelle	Effects of Stream Flow and Substrate Toxicity on Clearwater County Macroinvertebrates Abstract	Northern	12	Bagley Secondary School	Female	Bagley	4th
		Stinar	Kylie			12	Bagley Secondary School	Female	Bagley	3rd
Grand Awards - Silver	Winner	Jons	Carolyn	The Effect of Soap Bubble Size on the Insulation Ability of Foams Abstract	Twin Cities	7	Central Middle School, Eden Prairie	Female	Eden Prairie	1st
Grand Awards - Silver	Winner	Weissman	Hannah	How the Number of Fan Blades and the Shape of the Fan Blade Affect the Energy Produced Abstract	Twin Cities	8	Murray Junior High School	Female	St. Paul	1st
Grand Awards - Silver	Winner	Prince	Aris	Has nuclear radiation fallout in Japan and Chernobyl altered plant response to UV-B radiation? A study of Arabidopsis thaliana response to UV-B Abstract	Twin Cities	11	Breck School, Minneapolis	Female	Richfield	1st
		Vijayakar	Roshny			11	Breck School, Minneapolis	Female	Golden Valley	1st
Grand Awards - Silver	Winner	Jobin	William	No Hammer Needed Abstract	South Central, Southwest	7	St. Huberts School	Male	Chanhassen	1st
Grand Awards - Silver	Winner	Chelseth	Michael	Stoplight Push Button - Will it really make the light turn faster? Abstract	Northeast	7	Holy Rosary School	Male	Duluth	1st
Grand Awards - Silver	Winner	Armstrong	Tia	The Effect of Hand Strength and Flexibility on Handwriting Abstract	Northern	8	Bemidji Middle School	Female	Bemidji	2nd
Grand Awards - Silver	Winner	Broderius	Adam	Comparing the Efficiencies of Ethyl Alcohol from Various Organic Materials, Year V Abstract	South Central, Southwest	12	Glencoe-Silver Lake High School	Male	Glencoe	6th
Grand Awards - Silver	Winner	Zaiken	Michael	Testing the Correlation Between B7-H1 and PTEN Signal Expression in Kidney Cancer Cells Abstract	Rochester	12	Century High School	Male	Rochester	6th
Grand Awards - Silver	Winner	Cage	Walker	Washed Away Abstract	Northern	7	Bagley Secondary School	Male	Bagley	1st
Grand Awards - Silver	Winner	Ekblad	Ellie	Does the Pursuit of Happiness Include Vitamin D? Abstract	Rochester	8	Lincoln K-8 Choice, Rochester	Female	Rochester	2nd
Grand Awards - Silver	Winner	_Ovsak - DUPE	Gavin	The Creation and Testing of a Fully Submersible Geared Water Turbine for Alternative Energy Production Abstract	Twin Cities	12	Eden Prairie High School	Male	Hopkins	2nd
Grand Awards - Silver	Winner	Radtke	Tyler	Which Orange Juice Has the Most Vitamin C? Abstract	Twin Cities	7	Oak Land Junior High	Male	Lakeland	1st

Grand Awards - Silver	Winner	Gopinath	Sidharth	<i>Determining the Relative Effectiveness of Water Purification Techniques Used in Developing Nations Abstract</i>	Twin Cities	10	Hopkins High School	Male	Minnetonka	1st
		Rao	Sachin			10		Male	Golden Valley	1st
Grand Awards - Silver	Winner	Chen	Yuqi	<i>Edible Organic Antifreeze: How antifreeze proteins in extract solution of <i>Lilium lancifolium</i> bulbs affect the quality of frozen foods Abstract</i>	Northeast	8	Woodland Middle School	Male	Duluth	2nd
Grand Awards - Silver	Winner	Rastedt	Candace	<i>An Investigation of Flavonoid Extraction from Sugar Beets and Soybeans on Non-Small Lung Cancer Abstract</i>	Western	11	Perham Senior High School	Female	Ottertail	3rd
Grand Awards - Silver	Winner	Reddan	Emily	<i>Butterfly Buffet Abstract</i>	South Central, Southwest	8	St. Huberts School	Female	Chaska	1st
Grand Awards - Silver	Winner	Rosemore	Bethany	<i>The Effect of Hatching Density, Salinity, and Temperature Differentiation on Japanese Medaka (<i>Oryzias latipes</i>) Embryo Development Phase IV Abstract</i>	Northeast	11	Cloquet High School	Female	Cloquet	5th
Grand Awards - Silver	Winner	Sather	Richard	<i>Ginseng: Herbal Energy Elixir Abstract</i>	Northern	7	Franklin Middle School, Thief River Falls	Male	Thief River Falls	1st
Grand Awards - Silver	Winner	Sheehy	Audrey	<i>Hydroponics vs. Ionized Hydroponics Abstract</i>	Twin Cities	7	Our Lady Of Grace Catholic School	Female	Minneapolis	1st
Grand Awards - Silver	Winner	Kowalchyk	Cara	<i>Investigating the use of <i>Pseudomonas putida</i> Fu1 to clean up toxic furan agricultural byproducts in soil to prevent runoff into water supplies Abstract</i>	Twin Cities	12	Breck School, Minneapolis	Female	Plymouth	1st
		Southern	Rebecca			12		Female	Deephaven	1st
Grand Awards - Silver	Winner	Spencer	Alexander	<i>An Exploration of Magnetism in Thin Film Strained LaCoO3 Abstract</i>	Twin Cities	11	Wayzata Senior High School	Male	Plymouth	1st
Grand Awards - Silver	Winner	Carroll	Nathan	<i>The Energy Outputs of Biofuels and Fossil Fuel Abstract</i>	Twin Cities	8	Annunciation School	Male	Minneapolis	2nd
Grand Awards - Silver	Winner	Stafki	Samuel	<i>The Effect of the Invasive Species <i>Pimephales promelas</i> on the Biomass of Prairie Potholes Abstract</i>	Western	12	Perham Senior High School	Male	Perham	1st
Grand Awards - Silver	Winner	Dunn	Janelle	<i>Effects of Stream Flow and Substrate Toxicity on Clearwater County</i>	Northern	12	Bagley Secondary School	Female	Bagley	4th
		Stinar	Kylie			12		Female	Bagley	3rd

				Macroinvertebrates Abstract			Bagley Secondary School			
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### Institute of Food Technologists - Minnesota Section

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑		↑	↑	↑	↑	↑	↑	↑
Institute of Food Technologists - MN Section	1st place High School	Alper	Emily	Targeting Genes In Salmonella Kentucky Associated With Food-Borne Illnesses Abstract	Twin Cities	12	Breck School, Minneapolis	Female	Minneapolis	1st
		Haeg	Eleanore			12		Female	Wayzata	1st
Institute of Food Technologists - MN Section	2nd place High School	Nygaard	Abigail	How Sweet is "Too Sweet"? A Study of the Effect of Sweeteners on the Weight of <i>Mus musculus</i> . Abstract	Western	11	Perham Senior High School	Female	Perham	1st
Institute of Food Technologists - MN Section	1st place Middle School	Chen	Yuqi	Edible Organic Antifreeze: How antifreeze proteins in extract solution of <i>Lilium lancifolium</i> bulbs affect the quality of frozen foods Abstract	Northeast	8	Woodland Middle School	Male	Duluth	2nd
Institute of Food Technologists - MN Section	2nd place Middle School	Elkwae	Kareem	Tough Beans: Which cooking liquids slows softening the most? Abstract	Rochester	7	Kellogg Middle School	Male	Rochester	1st

### Intel Excellence in Computer Science

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑		↑	↑	↑	↑	↑	↑	↑
Intel Excellence in Computer Science Award	Best Project	Bauer	Billy	The Application of C++ as a Method for the Synthesis of a Superior Encryption Program Abstract	Northeast	11	Cloquet High School	Male	Cloquet	5th
		Wood	Christian			11		Male	Cloquet	1st
							Cloquet High School			

### MAS (MN Academy of Science)

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑		↑	↑	↑	↑	↑	↑	↑
ISEF 2011 - State	State Finalist	Campeau	David	Brain Computer Interface Abstract	Rochester	10	Mayo High School	Male	Rochester	4th
ISEF 2011 - State	State Finalist	Bhattacharya	Anushua	Silver Nanoparticle Affect Cell Messenger Delivery Abstract	Twin Cities	11	East Ridge High School	Female	Woodbury	3rd
ISEF 2011 - State	State Finalist	Chen	Evan	CD24 induced muscular regeneration: Unraveling the mystery behind satellite cell differentiation Abstract	Twin Cities	11	Wayzata Senior High School	Male	Plymouth	1st
ISEF 2011 - State	State Finalist	Zaiken	Michael	Testing the Correlation	Rochester	12	Century High	Male	Rochester	6th

				<i>Between B7-H1 and PTEN Signal Expression in Kidney Cancer Cells</i> Abstract			School			
ISEF 2011 - State	1st State Alternate	Spencer	Alexander	<i>An Exploration of Magnetism in Thin Film Strained LaCoO3</i> Abstract	Twin Cities	11	Wayzata Senior High School	Male	Plymouth	1st
ISEF 2011 - State	2nd State Alternate	Berglund	Spencer	<i>Regaining Arm Movement through the Use of a Robotic Orthosis</i> Abstract	Rochester	10	Mayo High School	Male	Rochester	2nd
Jr. High Papers	8th Grade Best Overall	Reger	Kelly	<i>Soil of the Future: Hydroponics, Aeroponics, or Soil?</i> Abstract	1	8	Our Lady Of Grace Catholic School	Female	Bloomington	1st
Jr. High Papers	8th Grade Best Paper	Smith	Camille	<i>Sensory Deprivation and Learning: A Study of the Effects of Reduced Stimuli in the Classroom</i> Abstract	1	8	FAIR School Crystal	Female	New Hope	2nd
Jr. High Papers	8th Grade Best Paper	Butler	Jonah	<i>Comparing the Percentages of Cellulose, Glucose, and Ethanol Found in Various Agricultural Waste Products That Have Been Converted to Cellulosic Ethanol Using Enzymes</i> Abstract	12	8	Sibley East-Gaylord Junior High	Male	Glencoe	2nd
Jr. High Papers	8th Grade Best Paper	Broderius	Mark	<i>What is the water quality of Buffalo Creek before, during, and after it passes by a food processing plant and the city of Glencoe?</i> Abstract	12	8	Glencoe-Silver Lake Lincoln Junior High	Male	Glencoe	2nd
Jr. High Papers	8th Grade Best Paper	Kleinschmidt	Ann	<i>Does Fertilizer Contamination and Concentration Affect the Aquatic Organism Daphnia Pullex and Ecosystem?</i> Abstract	4	8	Holy Rosary School	Female	Duluth	1st
Jr. High Papers	8th Grade Best Paper	Nelson	Sydney	<i>What Not to Wear: A Study on Bacterial Colony Counts on the Clothing of Healthcare Providers</i> Abstract	4	8	Woodland Middle School	Female	Duluth	2nd
Jr. High Papers	7th Grade Best Overall	Asirvatham	Roshini	<i>Cross My Heart And Hope to get Smarter Cognitive Benefits of a Yogic Exercise</i> Abstract	9	7	Friedell Middle School	Female	Rochester	1st
Jr. High Papers	7th Grade Best Paper	Jons	Carolyn	<i>The Effect of Soap Bubble Size on the Insulation Ability of Foams</i> Abstract	1	7	Central Middle School, Eden Prairie	Female	Eden Prairie	1st
Jr. High Papers	7th Grade Best Paper	Blaschko	Trina	<i>Which Cleaner Cleans Cleanest</i> Abstract	12	7	New Prague Middle School	Female	New Prague	1st
Jr. High Papers	7th Grade Best Paper	Sather	Richard	<i>Ginseng: Herbal Energy Elixir</i> Abstract	2	7	Franklin Middle School, Thief River Falls	Male	Thief River Falls	1st
Jr. High Papers	7th Grade Best Paper	Kitao ka	Robert	<i>What Is the Best Footwear Material For Walking On Ice?</i>	9	7	Friedell Middle School	Male	Rochester	1st

				Slip Resistance Measured With a Portable Slip Simulator Abstract						
Jr. High Papers	7th Grade Best Paper	Murphy	Charles	Bacteria in the Mouth Abstract	12	7	New Prague Middle School	Male	New Prague	1st
MAS / JSHS Achievement Award	Honorable Mention	Das	Aditi	Understanding Crown Gall Tumor Disease on Plants Through the VirB3 Protein Abstract	1	9	Roseville Area High School	Female	Roseville	1st
MAS / JSHS Achievement Award	Honorable Mention	Pakzad	Iman	The Effect of Water Velocity on Nearest Neighbor Distance in Blood Fin Tetras Abstract	1	9	Blake Upper School	Female	Wayzata	2nd
MAS / JSHS Achievement Award	Honorable Mention	Damania	Samarth	Computer Analysis of Player and Team Performance in Professional Halo 3 Abstract	1	11	Breck School, Minneapolis	Male	Maple Grove	1st
MAS / JSHS Achievement Award	Honorable Mention	Neff	Trevor	The effect of texture on aerodynamic drag: Phase 2 Abstract	4	12	Cloquet High School	Male	Cloquet	2nd
MAS / JSHS Achievement Award	Honorable Mention	Sigafoos	Travis	A clinical and epidemiological approach to the relationship between Attention Deficit Hyperactivity Disorder (ADHD) and sleep/wake disorders Abstract	3	11	Champlin Park High School	Male	Champlin	3rd
MAS / JSHS Achievement Award	Honorable Mention	Bryant	Jack	The Effect of Eisenia fetida Exudates on Medicago sativa Abstract	6	9	Winona High School	Male	Winona	3rd
MAS Clean Earth Award	1st Place High School	Sather	Karin	Effects of Urban Trees on Water Quality: A Comparison of Different Tree Species as Sources of Nutrients to Urban Water Bodies Abstract	Central	12	Champlin Park High School	Female	Champlin	4th
MAS Clean Earth Award	1st Place Middle School	Pallin	Madison	The Effect Of A Seven Year-Old Rain Garden's Age On The Water Quality Of Spring Creek Abstract	Northeast	8	Cloquet Middle School	Female	Cloquet	2nd
MAS Honorable Mention Awards	Honorable Mention	Bhagia	Amrita	How much DNA can you pack into a cell? Abstract	Rochester	8	St. John The Evangelist	Female	Rochester	2nd
		Fitzgerald	Michelle			8	St. John The Evangelist	Female	Rochester	1st
MAS Honorable Mention Awards	Honorable Mention	Claseman	Alex	Agricultural Biomass: Revamping the World's Energy Sources One Crop at a Time Abstract	Twin Cities	11	Burnsville High School	Male	Burnsville	1st
		Kloncz	Carissa			11	Burnsville High School	Female	Burnsville	2nd
MAS Honorable Mention Awards	Honorable Mention	Wood	Emily	Double Dipping: Chips and Dip Abstract	South Central, Southwest	10	MN New Country School	Female	Winthrop	2nd



MAS Honorable Mention Awards	Honorable Mention	Sawyer	Jacob	Reflecting Light Onto Solar Panels Abstract	Northeast	8	Woodland Middle School	Male	Duluth	1st
MAS Honorable Mention Awards	Honorable Mention	Plachta	Katherine	Would You Like Microbes With That? A Study of What is REALLY in Your Soda Fountain Drinks. Abstract	Northeast	7	Holy Rosary School	Female	Duluth	1st
MAS Safe Food Systems Award	1st Place High School	Gopinath	Sidharth	Determining the Relative Effectiveness of Water Purification Techniques Used in Developing Nations Abstract	Twin Cities	10	Hopkins High School	Male	Minnetonka	1st
		Rao	Sachin			10	Hopkins High School	Male	Golden Valley	1st
MAS Safe Food Systems Award	1st Place Middle School	Larsson	Avery	How Does Packaging Affect Meat Spoilage? Abstract	Twin Cities	7	Murray Junior High School	Male	St. Paul	1st
MAS Winchell Award	Winner	Spencer	Alexander	An Exploration of Magnetism in Thin Film Strained LaCoO3 Abstract	Twin Cities	11	Wayzata Senior High School	Male	Plymouth	1st
MAS Winchell Award	1st Alternate	Berglund	Spencer	Regaining Arm Movement through the Use of a Robotic Orthosis Abstract	Rochester	10	Mayo High School	Male	Rochester	2nd
MAS Winchell Award	2nd Alternate	Jain	Naveen	Mechanism of Tumor Suppression by CHD5 Abstract	Twin Cities	11	Wayzata Senior High School	Male	Plymouth	1st

## Medtronic Foundation

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
Medtronic Award	1st place High School	Persaud	Avin	The Use of the Zebrafish (Danio Rerio) as a Biological Model for Studying Drug-induced Cardiac Arrhythmias in Humans Abstract	Central	11	Champlin Park High School	Male	Brooklyn Park	4th
Medtronic Award	2nd place High School	Sun	Bo	Establishment of long-term cultures of new cardiomyocytes for use as an in vitro model for heart regeneration Abstract	Twin Cities	12	Wayzata Senior High School	Female	Plymouth	1st
Medtronic Award	1st place Middle School	Kitange	Gloria	Does Inhibition of P53 and/or MDM2 Kill Brain Tumor Cells? Abstract	Rochester	8	Friedell Middle School	Female	Rochester	2nd
Medtronic Award	2nd place Middle School	Ekblad	Ellie	Does the Pursuit of Happiness Include Vitamin D? Abstract	Rochester	8	Lincoln K-8 Choice, Rochester	Female	Rochester	2nd

## Minnesota Environmental Health Association

Award	Place	Won By	Title	Region	Grade	School	Gender	City	# Fairs
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MN Environmental Health Association Award for Excellence in Environmental Health Science	Honorable Mention High School	Wood	Emily	<i>Double Dipping: Chips and Dip Abstract</i>	South Central, Southwest	10	MN New Country School	Female	Winthrop	2nd
MN Environmental Health Association Award for Excellence in Environmental Health Science	Honorable Mention High School	Errett	Beth	<i>Does Agricultural Production Affect Water Quality? Abstract</i>	Western	10	Park Christian School	Female	Fargo	1st
MN Environmental Health Association Award for Excellence in Environmental Health Science	Honorable Mention Middle School	Scobbie	Elizabeth	<i>E. Coli - Dead or Alive Abstract</i>	Central	7	Calvin Christian School	Female	Blaine	1st
MN Environmental Health Association Award for Excellence in Environmental Health Science	Honorable Mention Middle School	Nelson	Sydney	<i>What Not to Wear: A Study on Bacterial Colony Counts on the Clothing of Healthcare Providers Abstract</i>	Northeast	8	Woodland Middle School	Female	Duluth	2nd
MN Environmental Health Association Award for Excellence in Environmental Health Science	Honorable Mention Middle School	LeSavage	Gates	<i>Does Food Really Get Contaminated With Bacteria After 5 Seconds Of being On The Floor? Abstract</i>	Northeast	7	Holy Rosary School	Female	Duluth	1st
MN Environmental Health Association Award for Excellence in Environmental Health Science	1st Place High School	Morris	Katie	<i>Do Different Concentrations of Bleach Affect the Resistance of E. coli? Abstract</i>	South Central, Southwest	10	New Prague Senior High School	Female	New Prague	1st
MN Environmental Health Association Award for Excellence in Environmental Health Science	2nd Place High School	Gopinath	Sidharth	<i>Determining the Relative Effectiveness of Water Purification Techniques Used in Developing Nations Abstract</i>	Twin Cities	10	Hopkins High School	Male	Minnetonka	1st
		Rao	Sachin			10	Hopkins High School	Male	Golden Valley	1st
MN Environmental Health Association Award for Excellence in Environmental Health Science	3rd Place High School	Krych	Matt	<i>Effective Hand-Washing Abstract</i>	Central	9	Champlin Park High School	Male	Champlin	3rd
MN Environmental Health Association Award for Excellence in Environmental Health Science	1st Place Middle School	Renier	Tim	<i>Can a Multifactor Hand Hygiene Intervention, Delivered Over Time, Improve Effectiveness of Hand Hygiene and Reduce Absence Rates Due to Illness Among Middle and Elementary School Students? A Phase 2</i>	Northeast	8	Holy Rosary School	Male	Duluth	2nd

				<i>Experiment Abstract</i>						
<b>MN Environmental Health Association Award for Excellence in Environmental Health Science</b>	<b>2nd Place Middle School</b>	<b>Plachta</b>	<b>Katherine</b>	<i>Would You Like Microbes With That? A Study of What is REALLY in Your Soda Fountain Drinks. Abstract</i>	Northeast	7	Holy Rosary School	Female	Duluth	1st

## Mu Alpha Theta

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
<b>Mu Alpha Theta Award</b>	<b>Best Project</b>	<b>Zhang</b>	<b>Yinshuo</b>	<i>Solar Energy for All: Low-Cost Residential Concentrator Photovoltaic System Design Abstract</i>	South Central, Southwest	11	Mankato West Sr. High School	Male	Mankato	1st

## MAS (MN Academy of Science)

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
<b>National JSHS</b>	<b>3rd Place Poster</b>	<b>Pakzad</b>	<b>Paimon</b>	<i>Characterization of Benign Nevi and Malignant Melanomas using Signature Curves Abstract</i>	Twin Cities	11	Blake Upper School	Male	Wayzata	3rd
<b>National JSHS</b>	<b>5th Place Observer</b>	<b>Sather</b>	<b>Karin</b>	<i>Effects of Urban Trees on Water Quality: A Comparison of Different Tree Species as Sources of Nutrients to Urban Water Bodies Abstract</i>	Central	12	Champlin Park High School	Female	Champlin	4th
<b>National JSHS</b>	<b>4th Place Observer</b>	<b>Jain</b>	<b>Naveen</b>	<i>Mechanism of Tumor Suppression by CHD5 Abstract</i>	Twin Cities	11	Wayzata Senior High School	Male	Plymouth	1st
<b>National JSHS</b>	<b>1st Place Presenter</b>	<b>Berglund</b>	<b>Spencer</b>	<i>Regaining Arm Movement through the Use of a Robotic Orthosis Abstract</i>	Rochester	10	Mayo High School	Male	Rochester	2nd
<b>National JSHS</b>	<b>2nd Place Presenter</b>	<b>Chen</b>	<b>Evan</b>	<i>CD24 induced muscular regeneration: Unraveling the mystery behind satellite cell differentiation Abstract</i>	Twin Cities	11	Wayzata Senior High School	Male	Plymouth	1st

## National Oceanic and Atmospheric Administration

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
<b>National Oceanic and Atmospheric Award</b>	<b>Best Project</b>	<b>Rosemore</b>	<b>Bethany</b>	<i>The Effect of Hatching Density, Salinity, and Temperature Differentiation on Japanese Medaka (Oryzias latipes) Embryo Development Phase IV</i>	Northeast	11	Cloquet High School	Female	Cloquet	5th

Abstract

### National Society of Professional Engineers

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑		↑	↑	↑	↑	↑	↑	↑
National Society of Professional Engineers - Innovative Engineering Award	Best Project	Prince	Aris	Has nuclear radiation fallout in Japan and Chemobyl altered plant response to UV-B radiation? A study of Arabidopsis thaliana response to UV-B Abstract	Twin Cities	11	Breck School, Minneapolis	Female	Richfield	1st
		Vijayakar	Roshny			11		Female	Golden Valley	1st

### National Youth Science Camp / MN Department of Education

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑		↑	↑	↑	↑	↑	↑	↑
National Youth Science Camp - West Virginia	2nd Female Alternate	Wen	Amy		Twin Cities	12	Wayzata Senior High School	Female	Plymouth	1st
National Youth Science Camp - West Virginia	2nd Male Alternate	FitzSimmons	Sam		South Central, Southwest	12	Loyola Catholic School	Male	Eagle Lake	4th
National Youth Science Camp - West Virginia	1st Male Alternate	__Ovsak - DUPE	Gavin		Twin Cities	12	Eden Prairie High School	Male	Hopkins	2nd
National Youth Science Camp - West Virginia	Winning Male	Ganti	Hari		Twin Cities	12	Wayzata Senior High School	Male	Plymouth	2nd
National Youth Science Camp - West Virginia	Winning Female	Alper	Emily		Open		Breck School, Minneapolis		Minneapolis	1st
National Youth Science Camp - West Virginia	1st Female Alternate	Haeg	Eleanor		Open		Breck School, Minneapolis		Wayzata	1st

### MAS (MN Academy of Science)

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑		↑	↑	↑	↑	↑	↑	↑
Penny Lohman Memorial Critical Thinking Outside of the Box Award	Best Project	Griebel	Jessica	Natural Cleaning Abstract	South Central, Southwest	8	New Ulm Area Catholic School	Female	New Ulm	2nd
		Roufs	Ellen			8		Female	New Ulm	2nd

### Pentair Foundation

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑		↑	↑	↑	↑	↑	↑	↑
Pentair Award	1st place High School	Steffl	Andrew	The Effects of Lanthanum (III) Chloride, Aluminum Potassium	South Central	9	St. Marys School, Sleenv Eve	Male	Sleepy Eye	3rd

				Sulfate, and Calcium Hydroxide on Phosphorus Runoff. Abstract	Central, Southwest					
Pentair Award	2nd place High School	Sather	Karin	Effects of Urban Trees on Water Quality: A Comparison of Different Tree Species as Sources of Nutrients to Urban Water Bodies Abstract	Central	12	Champlin Park High School	Female	Champlin	4th
Pentair Award	1st place Middle School	Madlom	Lexi	Is Earth's Best Friend Slimy & Green? Algae Based Nutrient Extraction From Eutrophic River Water Abstract	Western	8	Park Christian School	Female	Fargo	2nd
Pentair Award	2nd place Middle School	Cage	Walker	Washed Away Abstract	Northern	7	Bagley Secondary School	Male	Bagley	1st

### Raptor Center

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Raptor Center Award	Best Project	Hellevik	Jacob	Cheep, Cheep, or Cherry Abstract	South Central, Southwest	8	St. Marys - Marian, Owatonna	Male	Medford	1st

### Ricoh Corporation

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Ricoh Sustainable Development Award	Best Project	Skalsky	Isaac	The Design and Development of High Voltage Oceanic Water Electrolysis Abstract	Northern	10	Lincoln High School, Thief River Falls	Male	St. Hilaire	5th

### SAS Institute, JMP Division

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
SAS / JMP Data Analysis & Visualization Award	Best Project	Sigafoos	Travis	A clinical and epidemiological approach to the relationship between Attention Deficit Hyperactivity Disorder (ADHD) and sleep/wake disorders Abstract	Central	11	Champlin Park High School	Male	Champlin	3rd

### Science Museum of Minnesota

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Science Museum of	Best High	Campeau	David	Brain Computer Interface	Rochester	10	Mayo High School	Male	Rochester	4th

<b>Minnesota Best Exhibit Award</b>	<b>School Project</b>			Abstract						
<b>Science Museum of Minnesota Best Exhibit Award</b>	<b>Best Middle School Project</b>	<b>Renier</b>	<b>Tim</b>	<i>Can a Multifactor Hand Hygiene Intervention, Delivered Over Time, Improve Effectiveness of Hand Hygiene and Reduce Absence Rates Due to Illness Among Middle and Elementary School Students? A Phase 2 Experiment</i> Abstract	Northeast	8	Holy Rosary School	Male	Duluth	2nd

## Seagate Technology, Inc.

<b>Award</b> ↑	<b>Place</b> ↑	<b>Won By</b> ↑		<b>Title</b> ↑	<b>Region</b> ↑	<b>Grade</b> ↑	<b>School</b> ↑	<b>Gender</b> ↑	<b>City</b> ↑	<b># Fairs</b> ↑
<b>Seagate Rising Star Awards</b>	<b>Winner High School</b>	<b>Campeau</b>	<b>David</b>	<i>Brain Computer Interface</i> Abstract	Rochester	10	Mayo High School	Male	Rochester	4th
<b>Seagate Rising Star Awards</b>	<b>Winner Middle School</b>	<b>Reger</b>	<b>Kelly</b>	<i>Soil of the Future: Hydroponics, Aeroponics, or Soil?</i> Abstract	Twin Cities	8	Our Lady Of Grace Catholic School	Female	Bloomington	1st
<b>Seagate Drawing - Hard Drives</b>	<b>Winner</b>	<b>Thorsgaard</b>	<b>Ellie</b>		Twin Cities	7	Murray Junior High School	Female	St. Paul	1st
<b>Seagate Drawing - Hard Drives</b>	<b>Winner Theater Drive</b>	<b>Lax</b>	<b>Nathan</b>		South Central, Southwest	9	St. Marys School, Sleepy Eye	Male	Sleepy Eye	3rd
<b>Seagate Drawing - Hard Drives</b>	<b>Winner</b>	<b>Weissman</b>	<b>Hannah</b>		Twin Cities	8	Murray Junior High School	Female	St. Paul	1st
<b>Seagate Drawing - Hard Drives</b>	<b>Winner</b>	<b>Chhugani</b>	<b>Sahil</b>		Rochester	7	Friedell Middle School	Male	Rochester	1st
<b>Seagate Drawing - Hard Drives</b>	<b>Winner</b>	<b>Aturaliya</b>	<b>Ryan</b>		Northeast	7	Holy Rosary School	Male	Duluth	1st
<b>Seagate Drawing - Hard Drives</b>	<b>Winner</b>	<b>Lauschke</b>	<b>Lisa</b>		South Central, Southwest	7	St. Huberts School	Female	Chanhausen	1st
<b>Seagate Drawing - Hard Drives</b>	<b>Winner</b>	<b>Henneck</b>	<b>Leo</b>		Northeast	8	Woodland Middle School	Male	Duluth	1st
<b>Seagate Drawing - Hard Drives</b>	<b>Winner</b>	<b>Mayo</b>	<b>Katherine</b>		Rochester	8	Kellogg Middle School	Female	Rochester	1st
<b>Seagate Drawing - Hard Drives</b>	<b>Winner</b>	<b>Robertson</b>	<b>Lacey</b>		Northeast	7	Holy Rosary School	Female	Duluth	1st
<b>Seagate Drawing - Hard Drives</b>	<b>Winner</b>	<b>Igwe</b>	<b>Crystal</b>		Northeast	8	Woodland Middle School	Female	Duluth	1st
<b>Seagate Drawing - Hard Drives</b>	<b>Winner</b>	<b>LeTourneau</b>	<b>Jeremiah</b>		Northeast	10	Hinckley/Finlayson High School	Male	Hinckley	1st

Seagate Drawing - Hard Drives	Winner Theater Drive	Zippel	Nolan		South Central, Southwest	11	MN New Country School	Male	Le Sueur	2nd
Seagate First Year Awards 2011	Winner	Prince	Aris		Twin Cities	11	Breck School, Minneapolis	Female	Richfield	1st
Seagate First Year Awards 2011	Winner	Vijayakar	Roshny		Twin Cities	11	Breck School, Minneapolis	Female	Golden Valley	1st
Seagate First Year Awards 2011	Winner	Nachtsheim	Maddison		Northeast	8	Woodland Middle School	Female	Duluth	1st
Seagate First Year Awards 2011	Winner	Huna	Madison		Twin Cities	7	Stillwater Junior High	Female	Stillwater	1st
Seagate First Year Awards 2011	Winner	Erdmann	Tom		Open		Breck School, Minneapolis		Shorewood	1st
Seagate First Year Awards 2011	Winner	Ghosh	Aditya		Rochester	12	Mayo High School	Male	Rochester	1st
Seagate First Year Awards 2011	Winner	Gomez	Marcus		Rochester	9	Century High School	Male	Zumbrota	1st
Seagate First Year Awards 2011	Winner	Jobin	William		South Central, Southwest	7	St. Huberts School	Male	Chanhassen	1st
Seagate First Year Awards 2011	Winner	Reger	Kelly		Twin Cities	8	Our Lady Of Grace Catholic School	Female	Bloomington	1st
Seagate First Year Awards 2011	Winner	Ahmed	Ishmam		Twin Cities	11	Wayzata Senior High School	Male	Plymouth	1st
Seagate First Year Awards 2011	Winner	Rao	Sachin		Twin Cities	10	Hopkins High School	Male	Golden Valley	1st
Seagate First Year Awards 2011	Winner	Chen	Evan		Twin Cities	11	Wayzata Senior High School	Male	Plymouth	1st
Seagate First Year Awards 2011	Winner	Nothom	Nick		South Central, Southwest	11	Waconia High School	Male	Waconia	1st
Seagate First Year Awards 2011	Winner	Cage	Walker		Northern	7	Bagley Secondary School	Male	Bagley	1st
Seagate First Year Awards 2011	Winner	Chelseth	Michael		Northeast	7	Holy Rosary School	Male	Duluth	1st
Seagate First Year Awards 2011	Winner	Boecker	Noah		Rochester	8	Kellogg Middle School	Male	Rochester	1st
Seagate First Year Awards 2011	Winner	Gopinath	Sidharth		Twin Cities	10	Hopkins High School	Male	Minnetonka	1st
Seagate First Year Awards 2011	Winner	Alper	Emily		Open		Breck School, Minneapolis		Minneapolis	1st

Seagate First Year Awards 2011	Winner	Sun	Bo		Twin Cities	12	Wayzata Senior High School	Female	Plymouth	1st
Seagate First Year Awards 2011	Winner	Sheehy	Audrey		Twin Cities	7	Our Lady Of Grace Catholic School	Female	Minneapolis	1st
Seagate First Year Awards 2011	Winner	Spencer	Alexander		Twin Cities	11	Wayzata Senior High School	Male	Plymouth	1st
Seagate First Year Awards 2011	Winner	Kohli	Tanvi		Rochester	7	Friedell Middle School	Female	Rochester	1st
Seagate First Year Awards 2011	Winner	Reddan	Emily		South Central, Southwest	8	St. Huberts School	Female	Chaska	1st
Seagate First Year Awards 2011	Winner	Damania	Samarth		Twin Cities	11	Breck School, Minneapolis	Male	Maple Grove	1st
Seagate First Year Awards 2011	Winner	Kiely	Daniel		Twin Cities	7	Our Lady Of Grace Catholic School	Male	Edina	1st
Seagate First Year Awards 2011	Winner	Stafki	Samuel		Western	12	Perham Senior High School	Male	Perham	1st
Seagate First Year Awards 2011	Winner	Southern	Rebecca		Twin Cities	12	Breck School, Minneapolis	Female	Deephaven	1st
Seagate First Year Awards 2011	Winner	Asirvatham	Roshini		Rochester	7	Friedell Middle School	Female	Rochester	1st
Seagate First Year Awards 2011	Winner	Fredrick	Ryan		Central	8	Jackson Middle School, Champlin	Male	Brooklyn Park	1st
Seagate First Year Awards 2011	Winner	Haeg	Eleanore		Twin Cities	12	Breck School, Minneapolis	Female	Wayzata	1st
Seagate First Year Awards 2011	Winner	Sather	Richard		Northern	7	Franklin Middle School, Thief River Falls	Male	Thief River Falls	1st
Seagate First Year Awards 2011	Winner	Hearne	Annabelle		Twin Cities	7	Stillwater Junior High	Female	Stillwater	1st
Seagate First Year Awards 2011	Winner	Weissman	Hannah		Twin Cities	8	Murray Junior High School	Female	St. Paul	1st
Seagate First Year Awards 2011	Winner	Lauschke	Lisa		South Central, Southwest	7	St. Huberts School	Female	Chanhausen	1st
Seagate First Year Awards 2011	Winner	Jons	Carolyn		Twin Cities	7	Central Middle School, Eden Prairie	Female	Eden Prairie	1st
Seagate First Year Awards 2011	Winner	Watkins	Caleb		Central	8	Jackson Middle School, Champlin	Male	Champlin	1st



Seagate First Year Awards 2011	Winner	Wang	Lawrence		Twin Cities	12	Wayzata Senior High School	Male	Maple Grove	1st
Seagate First Year Awards 2011	Winner	Radtke	Tyler		Twin Cities	7	Oak Land Junior High	Male	Lakeland	1st
Seagate First Year Awards 2011	Winner	Kowalchyk	Cara		Twin Cities	12	Breck School, Minneapolis	Female	Plymouth	1st
Seagate Mentor Award	Winner 11+ Years	Pupungatoa	Katy		1	Adult		Female		1st
Seagate Mentor Award	Winner 1-10 Years	Kotasek	Nichole		South Central, Southwest		MN New Country School	Female	Henderson	1st

### Society for In Vitro Biology

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑		↑	↑	↑	↑	↑	↑	↑
Society for In Vitro Biology Award	Best Project	Chen	Evan	CD24 induced muscular regeneration: Unraveling the mystery behind satellite cell differentiation Abstract	Twin Cities	11	Wayzata Senior High School	Male	Plymouth	1st

### SPIE-the International Society for Optics & Photonics

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑		↑	↑	↑	↑	↑	↑	↑
SPIE Optics and Photonics Science Fair Award	1st Place	Weiler	Addison	Improving Efficiency of Organic Solar Cells using Lead Phthalocyanine Abstract	Twin Cities	12	Breck School, Minneapolis	Male	Edina	2nd
SPIE Optics and Photonics Science Fair Award	2nd Place	Zhang	Yinshuo	Solar Energy for All: Low-Cost Residential Concentrator Photovoltaic System Design Abstract	South Central, Southwest	11	Mankato West Sr. High School	Male	Mankato	1st
SPIE Optics and Photonics Science Fair Award	3rd Place	Henneck	Leo	Catch the Wave(lenth) Abstract	Northeast	8	Woodland Middle School	Male	Duluth	1st

### St. Cloud State University

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑		↑	↑	↑	↑	↑	↑	↑
St. Cloud State University - Engineering	Best Project	Anderson	Martin	Specific Impulse of Traditional Black Powder Rocket Engines in the Pyrotechnics Industry: Engineering an Improved Static Test Apparatus / Utilizing it to Analyze Performance and Quality of Traditional Versus Modern Manufacturing	Twin Cities	12	Burnsville High School	Male	Burnsville	2nd

				<i>Methods Abstract</i>						
<b>St. Cloud State University - Natural Sciences (Biology, Chemistry, Environmental Sciences)</b>	<b>Best Project</b>	<b>Stafki</b>	<b>Samuel</b>	<i>The Effect of the Invasive Species <i>Pimephales promelas</i> on the Biomass of Prairie Potholes Abstract</i>	8	12	Perham Senior High School	Male	Perham	1st
<b>St. Cloud State University - Outstanding Female Scientist</b>	<b>Best Project</b>	<b>Dunn</b>	<b>Janelle</b>	<i>Effects of Stream Flow and Substrate Toxicity on Clearwater County Macroinvertebrates Abstract</i>	Northern	12	Bagley Secondary School	Female	Bagley	4th
		<b>Stinar</b>	<b>Kylie</b>			12	Bagley Secondary School	Female	Bagley	3rd

### US Air Force

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑		↑	↑	↑	↑	↑	↑	↑
<b>US Air Force Award</b>	<b>Best Project</b>	<b>Campeau</b>	<b>David</b>	<i>Brain Computer Interface Abstract</i>	Rochester	10	Mayo High School	Male	Rochester	4th
<b>US Air Force Award</b>	<b>Best Project</b>	<b>Ganti</b>	<b>Hari</b>	<i>Flying in the Future: Phase Two of Optimizing an Airfoil for Inviscid Airflow Abstract</i>	Twin Cities	12	Wayzata Senior High School	Male	Plymouth	2nd
<b>US Air Force Award</b>	<b>Best Project</b>	<b>Anderson</b>	<b>Martin</b>	<i>Specific Impulse of Traditional Black Powder Rocket Engines in the Pyrotechnics Industry: Engineering an Improved Static Test Apparatus / Utilizing it to Analyze Performance and Quality of Traditional Versus Modern Manufacturing Methods Abstract</i>	Twin Cities	12	Burnsville High School	Male	Burnsville	2nd

### US Army

Award	Place	Won By		Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑		↑	↑	↑	↑	↑	↑	↑
<b>US Army Award for Scientific / Engineering Excellence Award</b>	<b>Top In Category - Engineering</b>	<b>Campeau</b>	<b>David</b>	<i>Brain Computer Interface Abstract</i>	9	10	Mayo High School	Male	Rochester	4th
<b>US Army Award for Scientific / Engineering Excellence Award</b>	<b>Top In Category - Computers &amp; Mathematics</b>	<b>Cherkassky</b>	<b>Emily</b>	<i>Machine Learning for Evidence-Based Medical Diagnosis Abstract</i>	1	10	Edina High School	Female	Edina	3rd
<b>US Army Award for Scientific / Engineering Excellence Award</b>	<b>Top In Category - Medicine &amp; Health</b>	<b>Persaud</b>	<b>Avin</b>	<i>The Use of the Zebrafish (<i>Danio Rerio</i>) as a Biological Model for Studying Drug-induced Cardiac Arrhythmias in Humans Abstract</i>	3	11	Champlin Park High School	Male	Brooklyn Park	4th
<b>US Army Award for</b>	<b>Top In</b>	<b>Manlove</b>	<b>Claire</b>	<i>The Affects of Cell Phone</i>	9	12	Century High	Female	Rochester	1st

Scientific / Engineering Excellence Award	Category - Environmental Sciences			Radiation on the Growth of Wheat Sprouts Abstract			School			
US Army Award for Scientific / Engineering Excellence Award	Top In Category - Life Sciences	Chen	Evan	CD24 induced muscular regeneration: Unraveling the mystery behind satellite cell differentiation Abstract	1	11	Wayzata Senior High School	Male	Plymouth	1st
US Army Award for Scientific / Engineering Excellence Award	Honorable Mention	Abusaif	Yasmine	Surface Tension Abstract	3	9	Blaine High School	Female	Blaine	1st
US Army Award for Scientific / Engineering Excellence Award	Honorable Mention	Mukherjee	Rahul	Macroalgae As An Alternative Source Of Biodiesel: From Balancing the Aquatic Ecosystem of the Great Lakes To The Industrial Utilization of Native Algae Abstract	9	11	John Marshall High School	Male	Rochester	1st
US Army Award for Scientific / Engineering Excellence Award	Honorable Mention	Egert	Jackson	A systematic approach for reclamation of energy from waste water by a passive means Abstract	1	9	Maple Grove Junior High	Male	Maple Grove	3rd
US Army Award for Scientific / Engineering Excellence Award	Honorable Mention	Skalsky	Isaac	The Design and Development of High Voltage Oceanic Water Electrolysis Abstract	2	10	Lincoln High School, Thief River Falls	Male	St. Hilaire	5th
US Army Award for Scientific / Engineering Excellence Award	Honorable Mention	Das	Aditi	Understanding Crown Gall Tumor Disease on Plants Through the VirB3 Protein Abstract	1	9	Roseville Area High School	Female	Roseville	1st
US Army Award for Scientific / Engineering Excellence Award	Honorable Mention	Steffl	Andrew	The Effects of Lanthanum (III) Chloride, Aluminum Potassium Sulfate, and Calcium Hydroxide on Phosphorus Runoff. Abstract	12	9	St. Marys School, Sleepy Eye	Male	Sleepy Eye	3rd
US Army Award for Scientific / Engineering Excellence Award	Honorable Mention	Finger	Zachary	A Comparison of Agricultural Products as a Biological Alternative Heating Source Abstract	2	10	Lincoln High School, Thief River Falls	Male	Thief River Falls	2nd
US Army Award for Scientific / Engineering Excellence Award	Honorable Mention	Jain	Naveen	Mechanism of Tumor Suppression by CHD5 Abstract	1	11	Wayzata Senior High School	Male	Plymouth	1st

## US Metric Association

Award	Place	Won By	Title	Region	Grade	School	Gender	City	# Fairs	
US Metric Association Award	Best Project	Churchill	Jackson	Tire Meets Road Abstract	Northeast	7	Woodland Middle School	Male	Duluth	1st

## US Office of Naval Research

Award	Place	Won By	Title	Region	Grade	School	Gender	City	# Fairs
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↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	
US Navy - Naval Science Awards	High School Winner	Pakzad	Paimon	Characterization of Benign Nevi and Malignant Melanomas using Signature Curves Abstract	Twin Cities	11	Blake Upper School	Male	Wayzata	3rd
US Navy - Naval Science Awards	High School Winner	Zhang	Rowena	Cerebral Hemispheres and Learning: A Study of the Correlation between Brain Dominations and Learning Styles Abstract	Rochester	10	Century High School	Female	Rochester	1st
US Navy - Naval Science Awards	High School Winner	Klages-Mundt	Teva	The Effects of Blade Angle on Water Turbines Abstract	Southeast	8	Winona Middle School	Male	Winona	2nd
US Navy - Naval Science Awards	High School Winner	Broderius	Adam	Comparing the Efficiencies of Ethyl Alcohol from Various Organic Materials, Year V Abstract	South Central, Southwest	12	Glencoe-Silver Lake High School	Male	Glencoe	6th
US Navy - Naval Science Awards	Middle School Winner	Kamboj	Ishita	Biomass to Biogas Abstract	Central	8	Jackson Middle School, Champlin	Female	Brooklyn Park	1st
US Navy - Naval Science Awards	Middle School Winner	Radtke	Tyler	Which Orange Juice Has the Most Vitamin C? Abstract	Twin Cities	7	Oak Land Junior High	Male	Lakeland	1st
US Navy - Naval Science Awards	Middle School Winner	Roehl	Brandon	Magnetic Accelerator Abstract	Central	8	Rogers Junior High	Male	Rogers	1st
US Navy - Naval Science Awards	Middle School Winner	Renier	Tim	Can a Multifactor Hand Hygiene Intervention, Delivered Over Time, Improve Effectiveness of Hand Hygiene and Reduce Absence Rates Due to Illness Among Middle and Elementary School Students? A Phase 2 Experiment Abstract	Northeast	8	Holy Rosary School	Male	Duluth	2nd
US Navy - Naval Science Awards	Middle School Winner	Mayo	Katherine	Boid Simulation Using Functions Abstract	Rochester	8	Kellogg Middle School	Female	Rochester	1st

## Water Environment Federation

Award	Place	Won By	Title	Region	Grade	School	Gender	City	# Fairs	
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	
Water Enviro. Fed. / Stockholm Junior Water Award	1st Place	Kowalchyk	Cara	Investigating the use of <i>Pseudomonas putida</i> Fu1 to clean up toxic furan agricultural byproducts in soil to prevent runoff into water supplies Abstract	Twin Cities	12	Breck School, Minneapolis	Female	Plymouth	1st
		Southern	Rebecca			12	Breck School, Minneapolis	Female	Deephaven	1st
Water Enviro. Fed. / Stockholm Junior Water Award	2nd Place	Cao	Xiuqi	The Effects of Micro-algae Characteristics on the Bioremediation Rate of Deepwater Horizon Crude Oil	Rochester	10	Century High School	Male	Rochester	3rd
		Xiong	Ying			10	Century High	Male	Rochester	2nd

Award	Place	Won By	Title	Region	Grade	School	Gender	City	# Fairs	
Water Enviro. Fed. / Stockholm Junior Water Award	3rd Place	Mukherjee	Rahul	Abstract Macroalgae As An Alternative Source Of Biodiesel: From Balancing the Aquatic Ecosystem of the Great Lakes To The Industrial Utilization of Native Algae Abstract	Rochester	11	School John Marshall High School	Male	Rochester	1st

## Welsh's Sweeping

Award	Place	Won By	Title	Region	Grade	School	Gender	City	# Fairs	
Welshs Sweeping Northern Star Award	1st Place Male	Cage	Walker	Abstract Washed Away Abstract	Northern	7	Bagley Secondary School	Male	Bagley	1st
Welshs Sweeping Northern Star Award	1st Place Female	Hughes	Katherine	Abstract The Effect of Oils on Elodea Abstract	Twin Cities	7	St. Pascal School	Female	Woodbury	1st

## Wolfram Research Inc.

Award	Place	Won By	Title	Region	Grade	School	Gender	City	# Fairs	
Wolfram Research Mathematica Software Award	Best in Category	Rung	Bailey	Abstract Mold Growth on Cheese Abstract	Central	9	Blaine High School	Male	Blaine	1st
Wolfram Research Mathematica Software Award	Best in Category	Welu	Sam	Abstract Testing Methods to Isolate and Grow Equine Lawsonia intracellularis, Year Two of an Ongoing Study Abstract	South Central, Southwest	11	Marshall School	Female	Milroy	5th
Wolfram Research Mathematica Software Award	Best in Category	Cherkassky	Emily	Abstract Machine Learning for Evidence-Based Medical Diagnosis Abstract	Twin Cities	10	Edina High School	Female	Edina	3rd
Wolfram Research Mathematica Software Award	Best in Category	Geschwind	Kate	Abstract Developing Analytical Approaches to Forecast Wind Farm Production: Phase II Abstract	Rochester	10	Mayo High School	Female	Rochester	2nd
Wolfram Research Mathematica Software Award	Best in Category	Jackson	Courtney	Abstract The Coronae Paradox: The use of Visual Basic to determine circular low formation based upon maps created using Magellan radar data in order to determine the process(es) of coronae formation and the overall geologic history of circular lows on Venus—Phase IV Abstract	Northeast	12	Cloquet High School	Female	Cloquet	7th
Wolfram Research Mathematica Software Award	Best in Category	Sigafoos	Travis	A clinical and epidemiological approach to the relationship between Attention Deficit Hyperactivity Disorder (ADHD) and sleep/wake disorders	Central	11	Champlin Park High School	Male	Champlin	3rd

				Abstract						
Wolfram Research Mathematica Software Award	Best in Category	Klemenhagen	Connor	<i>The Diversification of Turf Grass Species by Means of Biodiversity, Phase II</i> Abstract	Central	10	Champlin Park High School	Male	Dayton	3rd
Wolfram Research Mathematica Software Award	Best in Category	Bhattacharya	Anushua	<i>Silver Nanoparticle Affect Cell Messenger Delivery</i> Abstract	Twin Cities	11	East Ridge High School	Female	Woodbury	3rd
Wolfram Research Mathematica Software Award	Best in Category	_Ovsak - DUPE	Gavin	<i>The Creation and Testing of a Fully Submersible Geared Water Turbine for Alternative Energy Production</i> Abstract	Twin Cities	12	Eden Prairie High School	Male	Hopkins	2nd
Wolfram Research Mathematica Software Award	Best in Category	Erdmann	Tom	<i>Synthesis and Purification of Indene Derivatives for Organic Photovoltaic Devices</i> Abstract	Twin Cities	12	Breck School, Minneapolis	Male	Shorewood	1st
Wolfram Research Mathematica Software Award	Best in Category	Weiler	Addison	<i>Improving Efficiency of Organic Solar Cells using Lead Phthalocyanine</i> Abstract	Twin Cities	12	Breck School, Minneapolis	Male	Edina	2nd
Wolfram Research Mathematica Software Award	Best in Category	Rosemore	Bethany	<i>The Effect of Hatching Density, Salinity, and Temperature Differentiation on Japanese Medaka (Oryzias latipes) Embryo Development Phase IV</i> Abstract	Northeast	11	Cloquet High School	Female	Cloquet	5th
Wolfram Research Mathematica Software Award	Best in Category	Fuad	David	<i>Preventing microalgae (Chlamydomonas reinhardtii) build-up in photobioreactors for biofuel production efficiency</i> Abstract	Twin Cities	12	Breck School, Minneapolis	Male	Eden Prairie	1st
Wolfram Research Mathematica Software Award	Best in Category	Nothom	Nick	<i>The Aurora Accelerator</i> Abstract	South Central, Southwest	11	Waconia High School	Male	Waconia	1st
Wolfram Research Mathematica Software Award	Best in Category	Chen	Evan	<i>CD24 induced muscular regeneration: Unraveling the mystery behind satellite cell differentiation</i> Abstract	Twin Cities	11	Wayzata Senior High School	Male	Plymouth	1st
Wolfram Research Mathematica Software Award	Best in Category	Rastedt	Candace	<i>An Investigation of Flavonoid Extraction from Sugar Beets and Soybeans on Non-Small Lung Cancer</i> Abstract	Western	11	Perham Senior High School	Female	Ottertail	3rd
Wolfram Research Mathematica Software Award	Best in Category	Campeau	David	<i>Brain Computer Interface</i> Abstract	Rochester	10	Mayo High School	Male	Rochester	4th

## WSB & Associates, Inc.

Award	Place	Won By	Title	Region	Grade	School	Gender	City	# Fairs
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑

<b>WSB Engineering Excellence Award</b>	<b>Best Project</b>	<b>Thorson</b>	<b>Atomic</b>	<i>Finding Stability Abstract</i>	Northern	7	Bemidji Middle School	Female	Bemidji	1st
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### Yale Science & Engineering Association, Inc.

Award	Place	Won By	Title	Region	Grade	School	Gender	City	# Fairs	
<b>Yale Science &amp; Engineering Association Award</b>	<b>Best Project</b>	<b>Ramdeen</b>	<b>Amarnauth</b>	<i>Light Emitted Diode Lights Abstract</i>	Central	11	Champlin Park High School	Male	Brooklyn Park	1st

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