

## 2008 FASF Project Titles

Project Category	Grade	Project Title
<b>ELEMENTARY DIVISION</b>		
Animal Sciences	4	Do large surgical incisions in dogs heal slower than smaller surgical incisions?
	4	What is a hamster's favorite food
Behavioral and Social Science	4	DO PEOPLE HAVE STRONGEST VISUAL MEMORY OR AUDITORY MEMORY
	4	How color affects our moods and how we think
Behavioral and Social Science	5	Is Love the Greatest Reward?
Biochemistry	4	What do your eyes memorize?
Chemistry	4	Burning calories
	4	What Best Keeps Ice From Melting
	4	Can people produce their own oxygen?
	4	Poptastic - The Best Temperature for Storing Microwave Popcorn
	4	Which Bubble Gum Blows The Biggest Bubble?
	4	Driving safely on ice
	4	What's Eating You?
	5	Heat it Up
	5	Surface Tension Comprehension
	5	Hot Topic
Computer Science	4	Hide & Signal
Earth	4	How Speedy are Salt Crystals?
	4	Crystals
	4	Salt Crystal Garden
	4	Cleansing Power
	4	Electrical Flow
	4	How to Make a Potato Clock
	4	Clean Up
	4	Fruity Fruit Tick Tock Clock
	5	Natural Resources & Dyes Created
	5	Lemon Battery
	5	Warmer Temperatures Are in the Forecast
	5	Life on Mars
	5	Bubble Buster
	5	Peanut Power
	5	Dirt, Dirt, Dirt
	5	Pennies & Juices
	5	How to Purify Muddy Water
	5	Peanut Power
	5	Launcher
	5	What Happens to a Twinkie When Exposed to Outside Elements?
	5	Let Me Breathe Clean Air
	5	Muddy Water
Earth Science	4	Crater Say What?

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	4	Did the Coke Eat the Nail?
	4	Bubbles Up
	4	Brrr, Bring Back the Clouds
	4	What Color Candle Will Leave the Least Amount of Leftover Wax After It Is Burned?
	5	The Mystery Of Decomposing
	5	Slowing Erosion
	5	Do Different Brands of Popcorn Leave Unpopped Kernels?
	5	Do You Want to Spin or Shine?
	5	What Household Material Is the Best Insulator?
Energy and Transportation	4	Wave a Signal
	5	Catch the Energy
	5	It's Going Down
	5	IS IT PRACTICAL TO BUILD A LIQUID BATTERY?
	5	fueling gasoline or water
Engineering	5	The Springing Spring
Environmental Sciences	4	Simple actions can save a lot of energy
	4	Catchy Filters
	5	Conserving water is good for our environment
	5	How Well Is Your Water?
	5	Alternative fuels are green, but not with envy!
Life	4	How Does Your Microwave Garden Grow?
	4	Will Plants Grow Better in Water or Soil?
	4	Does the Color of Light Affect Plant Growth?
	4	Stop Rot
	4	Do You Know How Exercise Affects Your Heart Rate?
	4	Strawberry DNA?
	4	The Water Escape
	4	Chocolate
	4	Browning Bananas
	4	How Good Is Your Memory?
	4	I Think I'm Biting My Nails
	5	How Much Water is in an Orange?
	5	Food or Foe?
	5	The Growth of Crystals
	5	Apple Juice or Apple Cider: Which One Do You Really Want?
	5	Acid Rain and Spirogyra Algae / The Cell Structure
	5	Does the Outdoor Temperature Affect You?
	5	Iodine Starch Test
	5	Apple Dippers Question: Does Liquid Affect How Fast Apples Turn Brown?
	5	What Will Rot First?
	5	Can DNA Be Extracted from Fruit Using Household Materials?

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	5	Amaze-ing
	5	Fast or Slow: Which Way Will the Heart Go?
	5	How Do You Choose Your Apple Juice?
	5	Juice With a Boost or a Scam in a Can
	5	Salty, Sweet or Healthy Snacks?
	5	How Different Liquids Affect the Strength of a Chicken Bone
	5	Which Cheese Molds Faster?
	5	Sprout Surprise
	5	Which Fruit/Vegetable Would Make a Better Bio Battery?
	5	Pooch Smooch
	5	Rust of the Century
	5	Mouse Olympics
Mathematics	5	Dice Probabilities
Medicine and Health Sciences	4	Get Less Wrinkly in the Water!
	5	I Can't Hear You!
	5	what type of detergent works the best?
	5	can acid be harmful to our teeth and bones?
	5	power-c
	5	Exercise "Ade"
Microbiology	4	Mold Growth
	4	Which Grand Blanc Grocery Store Has The Cleanest Grocery Carts?
	5	Battle Against Bacteria
	5	Phony Freshness?
	5	How well do disinfectants work?
Physical	4	Does Shape Affect Parachutes?
	4	Which Citrus Fruit Makes the Best Bio Battery?
	4	What Brand Chewing Gum Holds Its Flavor the Best?
	4	Human Battery
	4	Which Freezes Faster: Sugar Water, Salt Water, or Regular Water?
	4	To Break or Not to Break
	4	How An Airplane Works
	4	Do Colored Candles Burn Longer Than White Candles?
	4	Building a Crane
	4	The Puppy Ball Thrower
	4	Action and Reaction
	4	Magnetic Train
	5	Peanuts Energy
	5	Static Attraction
	5	Longer Wings, Longer Flight?
	5	Rocket Engine Engagers
	5	How Does Wattage Affect How Much Heat Is Produced?

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	5	Can the Design of a Paper Airplane Affect How Far It Flies?
	5	Rins Rusty Nails
	5	Toothpaste
	5	Veggie Power with Potatoes!
	5	Can Chewing Create Light?
	5	Solar Speed
	5	Parachute Plunge
	5	Bridge Design Strength
	5	Parachute Power
	5	Electricity! Electricity!
	4	Shooting Hoops!
	4	My Closet Needs More Room
	4	How density of water can affect floatation of an egg ?
	4	Light: Primary and Secondary Colors
	4	Primo's Boat Hoist
	4	Tee It Up?
	4	The Effects of Friction on Objects in Motion
	4	The Can Crusher
	4	Pet Taxi
	4	Paper Fliers
	4	Force of the Kick
	5	Mento Madness
Plant Sciences	4	Colors to Grow For
	4	The Magnetized Plant
	4	In What Medium Does a Pineapple Grow Best?
	5	Electromagnetic Fields and Algae Growth

Project Category	Grade	Project Title
<b>GROUP DIVISION</b>		
Computer Science	11	Agent-Based Crowd Modeling: A Game Theoretic Approach
	12	Agent-Based Crowd Modeling: A Game Theoretic Approach
Engineering	5	What product can we put on the bottom of a sled to make it go faster?
	5	What product can we put on the bottom of a sled to make it go faster?
Life	6	Which Mouthwash Kills the Most Bacteria?
	7	Which Mouthwash Kills the Most Bacteria?
Medicine and Health Sciences	5	The Effects of Caffeine on Blood Pressure and Pulse
	5	The Effects of Caffeine on Blood Pressure and Pulse
Microbiology	4	Which Grand Blanc Grocery Store Has The Cleanest Grocery Carts?

Project Category	Grade	Project Title
<b>JUNIOR DIVISION</b>		

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Project Category	Grade	Project Title
Animal Sciences	6	Winter feeding habits of Michigan birds
	6	Do Girls Really Grow Faster Than Boys (Rat Growth)
Behavioral and Social Science	7	Temperature Of the Brine Shrimp
	6	Musical Multiplication
	6	Does Chewing Gum Improve Memory Test Scores?
	6	Plates For Brownies
	6	Color In Food Choices
	6	visual subliminal messages
	7	The Affect of Gender On Short-Term Memory
	7	The Nose Knows
	8	What Changes Blood Pressure?
	8	Ring, Ring, Ring
	8	How does exercise affect memory
	8	Does running to different genres of music affect your overall time?
	8	Does Sleep Deprivation Effect You More In The Morning Or In The Afternoon?
	8	Boy Or Girl And Why
	8	Could Your Taste be in Your Genes?
	8	Matching Pitch: singing by ear
	8	Colors and Moods
	Biochemistry Cellular and Molecular Biology Chemistry	6
6		Does Olive Oil Strengthen Hair?
6		Gas Production Waste Reduction
6		Where Did The Vitamin C Go?
6		Burn Baby Burn
6		Testing Vitamin C
7		ARE THE WATER SOURCES AROUND YOU SAFE
7		Burn em' Up
7		FREEZING WATER
7		Plastic Wheat Thins
7		Oh, No! I'm Rusting
7		What Makes Buttercream Icing Taste So Good
7		Pain Relievers
7		Pineapples
8		An Age Old Question
8		Smile White
8		Does an aluminum or wooden baseball bat hit a baseball further?
Computer Science		7
Earth	8	Finding the Maximum Power Point of a Solar Panel with a Golden Section Search
	6	Global Warming: The Greenhouse Effect?
	6	Flower Power
	6	The Acidic Race

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	6	What Best Cleans Oil Out of Hot Water?
	6	Chemical Reactions
	7	Solar Oven (Pizza Box)
	7	I Think I'm All Green
	8	What Fumes Can Do
	8	Detergent Wars
	8	The Tasty Explosion
	8	Amount of Electricity in Acidic Drinks
	8	Let Them Breathe
	8	Modeling Mantle Convection Currents
	8	Dew Point
	8	The Tide Is In
	8	Burn Rates of Various Fabrics
	6	Are the Polar Caps Dying for a Drink of Lemonade? The Effect of Acidity Level on the Freezing Point of Water
	7	Predicting Temperature
	7	The Crystalline world
	8	WAAS Up, GPS?
Energy and Transportation	7	Fuel Cell's America's Energy Future
	7	Which car has the smoothest ride?
	7	The Warmest Gloves
	8	Super Solar Power
Engineering	7	Which Microwave keeps the food warm the longest?==
	8	What lubricant best improves the overall Efficiency of a Gear train
	8	Battery Life
	8	The Effects of Heat and Pressure on the Rigidity of Metal Wire
	8	Bouncing Basketballs at Different Temperatures
	8	The One That Got Away
	8	Feasibility Study of Microwave Water Heaters
	8	The Bungee Byron
Environmental Management	6	Save our Planet
	6	Which Sand?
Environmental Sciences	6	An Industrial Disaster
	6	Stay Warm
	6	Which Train Version Contains More Lead
	6	Keep It Green
	7	The answer is blowing in the wind.
	7	Heat-O-Matic
	7	Heat Retention
	7	What's In Your Water
	7	Lead In My Life
	8	Home Protection

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Life	8	What's in the Water You Drink?
	8	Slick Behavior
	6	Fight About Bedtime
	6	Spray Away Tooth Decay!!
	6	Stain Killer
	6	Incredible Edible Egg
	6	Moisturizer
	6	Finger Prints
	6	Which Disinfectant Works Best at Killing Bacteria?
	6	Dirty Mouth? Clean it Up!
	6	Rate of Rise of Blood Sugar in Healthy Volunteers - Factors Affecting It
	6	Do Plants Grow Bigger In Soil or Water?
	7	Caffeinated Reading
	7	What's In Your Vitamin
	7	What You See Is Not What You Get
	7	Does Eating Food Before a Test Increase or Decrease Test Scores?
	7	The Five Second Rule: Fact or Fiction?
	7	Bow Wow Heart Rate
	8	Microwaves Hurt More Than You Think
	8	Reflexive or Reactive / Fast or Slow
	8	Purifying Water for Survival
	8	Bacteria Brought to Attention
	8	Staining of Teeth
	8	Fungus Garden
	8	Coke and Teeth
	8	Which Brand of Mouthwash Kills the Most Bacteria?
	8	Slime
	8	Musical Plants: Beethoven vs. Mozart
	8	Swimming and the Heart
	8	Flame of Life
	8	The Difference
	Mathematics Medicine and Health Sciences	8
6		Are You Frying Your Brain?
6		Running
6		Blood Sugar Range
6		Clean & Cleaner
6		The Affect of Videogames on Heart Rate
6		Now You Feel Them, Now You Don't: Can Home Remedies Make Your Gallstones Disappear?
6		Which Exercise is the Best
6		Toothpaste Dilemma

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	6	Are You at Risk of Heart Disease?
	7	Put it out before it puts you out!
	7	How Fast Are Your Teeth Decaying?
	7	Get Some Sleep!
	7	Phone Memorization
	7	Get Ready For Bed
	7	Water Bottles- Toss Them or Keep Them
	7	Wii Sports Or Sports
	8	How High Is Your BMI?
	8	Beware of BMI
	8	Does The Influenza Vaccine Really Work?
	8	Turn That Thing Down
	8	Can pets lower blood pressure?
Microbiology	6	Germs Enemies
	6	Perception vs. Safety
	6	Germs
	6	Do Soaps Kill Germs?
	6	The End Zone
	7	Watch out, it is a UVC!
	7	Something is Fishy
	7	Moldy McIntoshs
	7	Be Gone!
	8	Brush Your Teeth Twice a Day, But Are You Brushing Germs Away?
	8	Household Cleaners versus Bacteria
Physical	6	Sound in Pitch
	6	Acids or Bases
	6	Potato Power
	6	Rockets
	6	Rollers
	6	Building Electric Circuits
	6	I'm Freezing
	6	Water Transfer
	6	Rubber Band Harp
	6	Balance and Center of Gravity
	6	Keeping Apples Fresh
	6	Kinetic Energy
	6	Does the Amount of Baking Powder Affect a Recipe?
	6	Moldy Cheese
	6	Name Brand vs. Off Brand
	6	Wind Power
	7	Electro-Light

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	7	Cleansing Power
	7	Invisible Cola
	7	Slip-N-Slide
	7	Sister Buster
	7	Magnote Goes Electric
	7	Eggs in the Nude
	8	Which Type of Battery Lasts the Longest
	8	Which Solute Makes a Better Effective Rainbow in a Tube?
	8	Temperature Troubles (Thermometer Accuracy)
	8	Capacity of Bridges
	8	Ken-etic Energy
	8	Will Temperature Affect a Golf Ball?
	6	Pitch of sound
	6	Veggie Power !
	6	Baseball bat debate which is better wood or metal
	6	Mixing Colors by Varying Current through LEDs
	6	breaking the lines
	6	Magnetism: How to Increase it?
	6	Which Color Fabric Fades The Most?
	6	: Does the temperature of glue affect its bond ?
	6	(not provided on application)
	6	how does different types grain affect water absorption
	6	Are Wind Turbines "Power" Full?
	6	Burning Rubber? How Temperature Affects Rubber.
	6	Which Ice with cool your water?
	6	Music to my Brain
	6	Electrostatic Water Generator
	6	Alka Seltzer
	6	glue bonding
	6	Arrows v. Weight
	6	Which Soda and Mentos Causes the Biggest Eruption
	7	Vacuum
	7	Cheating in Baseball, Helpful or hurtful
	7	Keeping My Balloon Afloat
	8	Does The Weight of The Bowling Ball Affect The Number of Pins Knocked Down?
	8	how does the length, width, and flex affect how fast a snowboard goes
	8	Does snowboard wax effect speeds?
	8	Insulation: Is It Money Well Spent?
	8	Bake and Break
	8	Boing...Boing...Boing...
	8	How fast do round objects fall?

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Plant Sciences	8	The Impact of Music on Snowboarding
	8	What is the difference in the drop of an arrow with different weight tips and at different yardages
	8	Does corking a bat affect the distance of a baseball
	8	What material used in building walls will best stop a projectile?
	8	Which Type of Battery Will Light a Flashlight the Longest?
	6	Why Can't The Sun's Harmful Rays Get Pass A Tree?
	6	Study of plant life
	7	Friend or foe? Plants and smoke
	7	Weed Killers effect on Plants
	7	The effects of humic acid and optimum soil on plants!
	7	Testing the Forms of Fertilizer
	8	What's Growing On Dude?
	8	Why do leaves change color in the fall?
<b>SENIOR DIVISION</b>		
Behavioral and Social Science	10	Could You Repeat That?
Chemistry	12	Identifying Personality Traits For Positive Performance
	10	Innovative Pathway to Biofuel Production
	10	Detection of fingerprints using the Superglue (Cyanoacrylate monomer) fuming method on porous and non-porous surfaces for human identification.
Energy and Transportation	10	Cool Acid
	9	A Novel Approach to SPF Determination of Sunscreens
Engineering	11	Got Gas--Again!
Life	12	nxtBoost: The Next Generation Child Booster Seat
	10	Talking Guitar
Medicine and Health Sciences	11	Comparative Examination of Factors Affecting Switchgrass Germination
	9	Eye See Lies
	10	The Effect of Airborne Negative Ions on Bacterial Growth
Microbiology	9	Efficient Way to Sterilize Pathogens from Dinnerware
	10	Electrical Breakdown of Vegetable Oil as an Insulating Material
Physics	9	The Great Refrigerating Vacuum
Plant Sciences	9	Don't Heat That Bottle!