

Praise for Supercharged Science

"You have been such a fun inspiration for our son Sam, and totally got him fired up to build, connect, explode, invent, test, create, discover, question... and in a nutshell, get wildly excited about how our physical world behaves through experimentation. Thank you! Thank you! Thank joy! You're a blessing and huge contributor to the positive development of our kids' minds and passions. Thanks for all you do and all you are!" ~Jan, San Luis Obispo, California

"I wish I had known about you years ago! My husband (who is an engineer and works on fighter planes), has been working with my kids since. He usually doesn't help homeschool my kids, but after watching the DVD from your program, he went to the internet to look something up, then returned to us as said, 'Nope - I tried, but I like the way Aurora explains it best.' My kids haven't turned on the TV once this whole weekend - we're just doing experiments together and it's great!" ~Merylyn, Richmond, Virginia

"I am homeschooling my 5y. old daughter and want to send you a big THANK YOU for all you do. Science was a subject I was a bit afraid to have to venture into. But with all your help it has been NO problem. Thanks again!" ~Dee, Sacramento, California

"Thank you for truly inspiring my kids. They're so excited to learn more. We downloaded the book and are pouring over its contents. Yeah!!!!" ~Donna, Long Beach, California

"Thank you so much for the science lessons! I had such a great time and it is very fun to learn from someone so knowledgeable." ~Sean, age 12, Nashville, Tennessee

"You are doing an awesome thing. From talking with many homeschooling moms over the years, science is where we tend to lack in experience, and know how. Even though we find the experiments so much fun to do, we are intimidated by them. Thank you for all that you do." ~Allison, Homeschool Co-op, Minnesota

"The kids are enjoying the electricity projects, and my 12 year old has concluded that you know what you are talking about!" ~Tracey S., Orlando, Florida

"As a Chemical Engineer I started reading this manual and boy what a joy. You have simplified so much so well. The explanations are great too as they are put in very simple terms. I can't wait to share these with my students. Keep me in mind if you put another of these manuals together." ~Mary Atkinson, Anaheim, California

"I purchased your Electricity & Robots Kit and my daughter loves it! Thank you!" ~Paula Blackville, Duluth, Minnesota

"My son KJ is having SO much fun!! As soon as we got home he watched the Robots & Electricity Kit video, and has been watching it since. He loves all of the gadgets! Thank you for letting him work with you. He will never forget it." ~Sally, Long Beach, California

"My son is LOVING the Electricity & Robotics Kit we bought from you, and we've already hit Radio Shack a couple of times to add some new things to try. Thank you!!!!" ~Candi Jackson, Atlanta, Georgia

"I have an 8 year old daughter. The one area we are weak in is science experiments. I am glad to see you are providing an outlet for homeschoolers interested in science. Keep up the good work." ~Keith Harris, Allentown, Pennsylvania

"Wow Aurora, Your stuff is AWESOME! I am so impressed by your vast education, skills and wonderful creativity. YOU ROCK!!!!" ~Judes Kingsbury, Santa Margarita, California

"Thank you for making science so fun and exciting! We have started watching the DVD about electricity and making robots and are working along. It's really great! My daughter has been into the life sciences -- gardening and animals and bugs. Now her interest is widening. As a home school mom I always appreciate someone, like you, who can broaden her horizons. I am going to love doing these experiments myself. I like the little creatures you made with cell phone parts. I love taking things apart and I look forward to knowing more about how to re-arrange the parts." ~Claudia Maurice, Sacramento, California



"I told my son he had to do his science lesson for just fifteen minutes each day, which was such a chore for him. One day I gave him this program. Three hours later, he made us late for an appointment because he couldn't tear himself away! He watched the videos over and over and built things I've never seen before. Thank you so much!!!!" ~Barbara & Matt, Valencia, California

"Aurora spoke at a Cub Scout Pack 6 meeting a few months ago and totally "wowed" the boys who attended the meeting.

It was amazing to hear them talk about her and their sudden interest in science. My husband, David Church, was equally impressed with her skills and presentations. First thing they said when they got home that night was, "Sign me up for all her camps, I love that teacher! My son and his buddies raved about you for days." ~*Connie Hanretty-Church, San Luis Obispo, California*

"You really need to tell people that this is the best kind of science there is. When I heard about your program, I wasn't excited about it. All it said was 'Science Camp', and I thought we'd be doing bugs or something like that. I went anyway, but you kicked out that kid who was not being safe during the rocket class, and I knew this was serious stuff. I learned more from your one week of camp than I have all year in school. My rockets got stuck on the roof and in the trees, but I can make more. I can't wait to see what else you come up with. Thank you for being my teacher." ~*Matthew, age 10, San Luis Obispo, California*

"Aurora, I want you and everyone else to know what an impact you have had on my son, Matthew! He's the kid who gets labeled as "troublemaker" or "non-conformist" (traits which I personally like about him). His energy has been directed to a different focus since Science Camp. You do



more than just teach science – there's a shift that I see in kids that go through your workshop. (I was the one who came early those last few days just to watch.) I can't really explain it, but

somehow you take them from ordinary to extraordinary through the medium of science. You somehow connect with every single one of those kids and light them up and get them to be curious and excited about the world they were already living in – it's like you give them a new set of eyes and outlets for their energy. I especially liked the parts where you talk with the parents about the psychology behind how you teach, and how we can support this new shift at home. You're much more than a teacher of science – it's more like life wisdom. Thank you so much for sharing your gift with us! ~*Christina (Matthew's Mom), San Luis Obispo, California*

"Thanks for coming to our school and doing a bang-up job on your rocketry presentation! The students really loved it, had a ton of fun, and learned a lot." ~*Jodi, Valley Oaks Charter School, Bakersfield, California*

"We just wanted to say THANK YOU for supercharging us at Valley Oaks Charter School. You were awesome and did an outstanding job with the experiments, presentations and

putting it in kid friendly terms so they could understand. My kids now want to be rocket scientists!" ~*Cynnde Lewis, Bakersfield, California*

"Here it is summer vacation and my daughter WANTS to do one science experiment after another after seeing YOUR stuff!" ~*Paul James, Virginia*

"We really enjoy your demonstrations. They are wonderful and we really loved the hovercraft you did today. Thank you for all that you are doing." ~*Angela and her two sons, Joseph and Kyle, Orlando, Florida*

"Jeremy is having SO much fun with everything - thank you all for the work & thought that has gone into the box & program!" ~*Tracey Miller, Alabama*

"Thank you so much for coming out to do our science day. It was awesome! I have had parents contacting me all week to thank me for putting both presentations together. Actually you did all the work - thanks for making me look good! You brought so much energy into our science program. Your presentation is inspiring, not to mention fun! You truly did inspire the young minds to think creatively about science. Personally, my son Ryan has been doing some pretty creative thinking about his science project for our upcoming science fair. I am sure we will see many 'Aurora-inspired' entries this year! Thank you again. My appreciation and just plain "awe" for how and what you do just can not be put into words. Thanks again and again!" ~*Lorraine Solomon, Homeschool Coordinator, Bakersfield, California*

"My 13-year old son has not been interested in anything educational for a long time. This was the first time I saw a real spark of interest in his eyes. Thank you so much for your help in inspiring my son!" ~*Ruth Ann, Bakersfield, California*

"Alex had a great time this summer in camp. Thanks for the great experience!" ~*Carol Johnson, Atascadero, California*

"Thank you so much, I can't wait to begin using the Science Experiment Manual with my kids. They immediately did the rocket and began the robot. My youngest (10 years old) played with the robot all night and was explaining it to guests at dinner. Thanks for making science fun!" ~*Mrs. Lopez, Santa Barbara, California*

"I love it that I don't have to do a thing! I set my kids in front of the program, and later find them excited and working on something new they created themselves. This program is exactly what we needed!" ~*Ursula, Santa Barbara, California*



What are the Science Workshops *really* like?

Sneak a peek into this journal entry from one of our participants.

This girl drove three hours to a place she didn't want to go. Melissa shares her story with us.

From Melissa's mother: "I am sending you Melissa's journal entry that she has been working onshe has not stopped discussing, researching, and experimenting with all her "stuff", she plans on trying some things when we go to the desert camping this weekend....my husband and I are so pleased with her experience even with \$75.00 in parking violations that I racked up....it was awesome and our friends from Las Vegas will be signing up for August. We are hoping to get our other friend who lives in south county to sign up, then we would probably be there for a couple of days and would like to stop in. Thanks for everything!"

~ Jana, Skipper, and Melissa.

Melissa's Unedited Journal Entry:

Schooling through half of spring break seemed like anything but great until last week when the hours at the desk paid off at science camp. I was not really looking forward to driving all the way to San Luis Obispo the day after Easter for a science camp. I wanted to stay home and work Chip, my horse, but that was not going to happen.

Aurora Lipper, owner of the Supercharged Science Company, put on the Supercharged Spring-Break Science Camp, which was held at Cal Poly. Aurora had done a demonstration at Valley Oaks Charter School that I attended with the Wilburs. To my surprise, she was not an ordinary teacher or scientist. She was more like a genius scientist with a pilot's license, a year of experience with NASA, a mechanical engineer, and the mind of a pyrotechnic. She had also attended Cal Poly College. Aurora exploded things right in front of our eyes, taught us how to make rockets from soda bottles and why Mentos create a chemical reaction when concocted with diet soda. Later added to my knowledge was that she used PVC pipe, airplane propellers, a lawn chair and a few other gadgets to attempt to make a hovercraft! However, that was last year, it did not seem that great any more, and I thought I had better things to

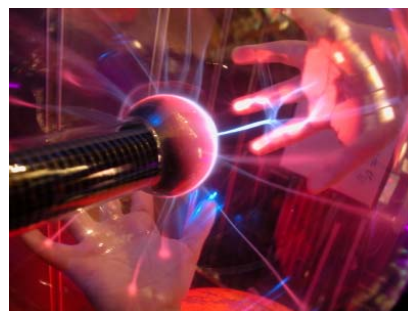
do like zipline, finish uncompleted projects, and of course ride Chip.

At 7:00 A.M. Mom and I were on the way to Cal Poly for our first day of explosions and science. The camp ran from 10:00 A.M. to 2:00 P.M. ; four hours that flew by like one (it was also for ages 8-12.). Again, another teaching surprise; the day started off with indoor explosions of "Magic Powders" instead of boring "name games" and classroom rules about obeying the teacher or class helpers! We talked about the three things needed to make a flame: a spark, fuel, and oxygen.

Aurora asked us to name some different fuels and when I was called on I answered, "Magnesium and dynamite." Hard to believe I was the only one who had an answer like that. Aurora used the "Magic Powder" to teach us about density. If the fuel of the fire is too dense, the spark will not become a burning flame because there is not enough oxygen moving through the fuel.

Towards the end of the day, the class did the Mentos and soda experiment. There is a chemical reaction between the ingredients of Mentos and diet soda; when put together in a two-liter soda bottle, the reaction creates a soda geyser! Some soda geysers were about ten feet tall! I observed that Diet Coke O' Cola and Diet Pepsi creates the best geysers. The day ended with launching our own soda bottle water rockets!

Tuesday was a very and literally "shocking" day as we "did" electricity! The morning was spent shocking ourselves with a low voltage shock machine and the afternoon was spent playing with all sorts of



electronics. Connecting battery packs to motors, switches, lights, and buzzers was a blast! I was very excited when it came time to make booby traps.

Aurora taught us how to make bugler alarms to keep people out of our rooms and pressure sensors to detect our moms coming down the hallway! I can not wait to do some more electricity experiments and play with the battery packs, motors, buzzers, and LED lights that Aurora gave me! I also learned a secret on how to shock mom and dad physically and literally!

Lasers are one of the best-fabricated lights ever! Wednesday was laser day. I was delighted to learn that LASER is a word like NASA. LASER stands for: Light Amplification by Stimulated Emission of Radiation! I had no clue that the letters in laser were initials! Aurora set up about ten or so lasers on the classroom tables turned off the lights, turned on two fog machines, and let us play with the lasers for about an hour!



There were many different things on the tables to put in front of the lasers like mirrors, flexible mirrors, clear prisms of different shapes, and gits and gadgets. The lasers we were using were not ordinary pet lasers; they were strong enough to hurt the eye, so everybody had to wear sunglasses and if you pointed a laser in a person's eye, you were sent out! I also learned that the human eye is toned to green; therefore, it is much easier to see a green laser beam than it is to see a red one. With the lights out and the fog machines on, it enabled us to see clearly the beams of the red lasers! We were given ink pens with lasers on the eraser end to take home; these lasers were even stronger than the ones used in class!

Thursday was hot and cold and it fizzed, bubbled, and popped! Otherwise, Thursday was a colorful chemistry day! I was not surprised to learn that while doing a chemistry test in college, Aurora blew up a lab! There were no windows left in the room after the explosion (sounds like something that I would do)! Making three

different varieties of slime was very slippery! We made farting slime, stretching slime, and snot slime! (Aurora has over 240 recipes for slime!)

After lunch, everybody watched Aurora make "Elephant Toothpaste" It did not explode, but Aurora did it over a storm drain and we had to stand far back because of the dangerous chemicals! The chemicals are so dangerous, that people are not usually allowed to see this experiment until they take a chemistry class in college! The rest of the afternoon was spent mixing different chemicals on our own. No matter how we mixed them, they would not harm us. However, some would turn hot, some cold, and almost all of them would bubble, fizz, and change colors!! I mixed this one chemical in a powder form with a two to one ratio of hydrogen peroxide and rubbing alcohol and the result was some sort of rubber ball that bounced!

I was a bit more than perplexed! I thought it was the greatest thing in the world until I learned how to walk on water! Aurora add a "chemical" to a tub of water, but there was more water than the chemical, and everybody in the class was able to "walk on water"!

Robots were roaming all over the classroom floor on Friday! Building robots was a blast! I came home with four different robots! I made a jiggle-bot, a water bot, and a race-a-bot! All of them were made from battery packs, small water proof motors, and all of the junk that we had saved (junk: cardboard, Styrofoam, plastic.). The best part was cleaning up! The five tables in the classroom were covered in all sorts of cool "stuff" and Aurora gave us each a empty trash bag to fill up with all the stuff we could gather! I came home with battery packs, lights, popsicle sticks, paper clips, brads, film canisters, and every thing in-between!

Science Camp was a totally awesome experience and can't wait to go back with Madison and Gavin this summer! I made and came home with so many cool things and plan to make more! We are going to Red Rock this weekend and I am going to take some experiments to blow up!

