

LANCASTER SCIENCE FACTORY

S U M M E R C A M P 2 0 1 2

Join us all summer long for fun and exciting projects and experiments! Camp runs Monday through Friday as either five half-day morning sessions (9:00am-12:00pm) or five half-day afternoon sessions (1:00pm-4:00pm). The cost is \$125 per child per camp, except for the week of July 2nd-6th (**no camp held on July 4th), which is \$100 per child per camp. Members receive 10% off. Children may register for both AM and PM sessions and bring a packed lunch.

CAMP SCHEDULE

Camp Dates (Monday-Friday)	Morning Session (9am-12pm)		Afternoon Session (1pm-4pm)	
	Camp Title	Ages	Camp Title	Ages
June 18-22	Invent It!	6-13	Phun Physics Domination	6-13
June 25-29	Unstoppable, Unpredictable?	6-13	They Did it First!	6-13
**July 2-6	Blast Off! Air Propulsion	6-13	Freeze! Science Crime-Stoppers	6-13
July 9-13	You're in Charge! (Girls Only!)	6-13	Move It! (Girls Only!)	6-13
July 16-20	True or False?	6-13	No Limits	8-13
July 23-27	The Creative Scientist: Secrets of Color	8-13	The Creative Scientist: Secrets of Sculpture	8-13
July 30-August 3	Ooey Gooley	6-13	Mad Scientist	6-13
August 6-10	Survivor	6-13	Out of the Shadows	6-13
August 13-17	Blast Off! Bottles and Models	6-13	Mystery of the Music	6-13

CAMP DESCRIPTIONS

Invent It! (Ages 6-13)

You get to be the inventor! We will play the roles of different inventors in history who are famous for making our lives easier today. From the wheel to the iPod, we'll turn genius ideas into fun experiments and projects! In our grand finale, we'll come up with our own inventions!

June 18th-22nd, mornings

Instructed by Erin Hanna

Phun Physics Domination (Ages 6-13)

Who will 'topple' the rest of the competition? With these exciting structure-building challenges, you will build towers, cars, roller coasters and more. We will work with unusual materials to find out who can build the strongest, tallest, safest, fastest...

June 18th-22nd, afternoons

Instructed by Jamie Golden

Unstoppable, Unpredictable? (Ages 6-13)

The wild elements surrounding us are hard to control but we can begin to understand them! Whether it's maelstroms, tornados, lightning, storms, or severe rain/wind, we'll construct many take-home tools you need to interpret the raw power of weather. Join us for an interactive journey through this real life example of Chaos Theory.

June 25th - 29th, mornings

Instructed by Ray Costello

They Did it First! (Ages 6-13)

Find out how famous scientists made history by trying different experiments and projects! Did they make mistakes? Were they right? Could it have been done any other way? From Copernicus to Carl Sagan, we'll journey through the greatest (and most fun) history adventure ever!

June 25th - 29th, afternoons

Instructed by Charity Drewes, Knowledge is Power Tutoring, Inc.

Blast Off! Air Propulsion (Ages 6-13)

Do you think you can send a rocket shooting over the roof of the Lancaster Science Factory? Join our rocket boot camp and find out! You won't believe all the ways we can use air to send paper rockets of different styles flying high into the air or at a distant target. Construct and launch your dream rocket and find out what kind you like the most. You'll even get to make your own rocket launcher to take home!!

July 2nd - 6th (no camp held on July 4th), mornings

Instructed by Lauren Schaller

Freeze! Science Crime-Stoppers (Ages 6-13)

Get caught up in the frenzy of forensics and solve who-done-its at the Factory! This is the perfect chance to work on your crime-solving skills with the experts. Be the first to spot the fake and you will never look at fingerprints, fibers, breakages and other traces the same way again!

July 2nd - 6th (no camp held on July 4th), afternoons

Instructed by Jennifer Stewart, with guest star Dan Jerchau

You're in Charge! (Girls Only!) (Ages 6-13)

Sorry boys but last year only 30% of our summer campers were girls. So this one is for girls only! Girls, you will work as a team to complete fun and exciting projects in different areas of science and math. Solve crimes, investigate natural resources, try sizzling chemical reactions, puzzle through cities, and more!

*As part of our partnership with SciGirls (an organization focused on gender equity in STEM), we're offering these exclusive camps for the first time ever!

July 9th - 13th, mornings

Instructed by several female instructors

Move It! (Girls Only!) (Ages 6-13)

Sorry boys but this one is just for girls too! In this afternoon version of our SciGirls camp week, we're focusing on flying, soaring, gliding, rolling, and more! We'll build crazy contraptions, try out our own theories, experiment, and compete. In this camp, you'll have the chance to master motion with projects based on paper airplanes, rockets, sailboats, windmills, pulleys...

July 9th-13th, afternoons

Instructed by Jennifer Stewart

True or False? (Ages 6-13)

Ready to bust some myths with science? Not only will you become better at finding out what is real and what isn't, you'll make the process look easy and fun! It's time to play with eggs, magnets, cars, statistics, weight, flight, vacuums and more.

July 16th-20th, mornings

Instructed by Jenna Moyer

No Limits (Ages 8-13)

There is no limit to how many fun and exciting ways you can apply math! Expect the unexpected because what you think of as playtime is actually a smart way to become a master of math (and we'll make it look easy). Puzzles, mysteries, codes, logic, music? That's just the beginning! **Campers should be familiar with multiplication and division.

July 16th-20th, afternoons

Instructed by Charity Drewes, Knowledge is Power Tutoring, Inc.

The Creative Scientist: Secrets of Color (Ages 8-13)

The truth is that without science, art would be very difficult or impossible! How does paint stick to a page? How is the page itself made? Learn how colors mix to create new colors, how chemicals and pigments create invisible images, how to create paintings that actually move, and much more.

July 23rd-27th, mornings

Instructed by Geena Teodecki

The Creative Scientist: Secrets of Sculpture (Ages 8-13)

Sculptures aren't just for museums and parks! Get ready to make three-dimensional artworks using different materials: from paper to glue and clay to bubbles. Investigate the art and science behind the making of kites, wind chimes and even candy! We will use physics and chemistry to create beautiful, noisy, and even delicious sculptures!

July 23rd-27th, afternoons

Instructed by Geena Teodecki

Ooey Gooey (Ages 6-13)

In this camp, it's ok to get a little dirty, soapy, sticky and syrupy! You won't believe how many gross and surprising things we can turn into experiments! Join us to play with plastics, fungus, oils and more. We'll even make a sweet treat!

July 30th- August 3rd, mornings

Instructed by Jamie Golden

Mad Scientist (Ages 6-13)

Everybody knows the stereotype but how does it feel to actually play the role of a 'mad scientist'? Together we'll push the limits of reality by experimenting with the ideas of mad scientists from literature and real life. Prepare to be sneaky, mysterious, magical, and to discover the gross and unexpected!

July 30th - August 3rd, afternoons

Instructed by Erin Hanna

Survivor (Ages 6-13)

Are you trapped on a deserted island, in a cave, or abandoned building? In this camp, find out how you can use science to save yourself! We will become resourceful and make tools out of basic materials, learn useful tricks, and use natural energy.

August 6th - 10th, mornings

Instructed by Ray Costello

Out of the Shadows (Ages 6-13)

Be in the dark no more! Join us as we discover how light impacts the world around us. Playfully explore how light bends, bounces and moves through every day and not-so-everyday objects. We'll finally answer that age-old question: why is the grass green? See the world in a new and unusual light by capturing rainbows, making periscopes, dazzling mirror mazes, and more.

August 6th - 10th, afternoons

Instructed by Elizabeth Yocom

Blast Off! Bottles and Models (Ages 6-13)

Thirsty for more rockets? This time, we're kicking off by making and launching our own soda bottle rockets! You'll get caught up in the competition but stand clear or you'll get drenched! Finally, you'll assemble and launch your own model electric-ignition rockets! Just make sure that you don't lose sight of them in the clouds...

August 13th - 17th, mornings

Instructed by Lauren Schaller

Mystery of the Music (Ages 6-13)

You won't believe your ears because we'll be making some noise! With sonic experiments and electrifying sound technology, we'll find out why sound is the rock star of energy. Hopefully you don't like to sit still because we will be buzzing, tuning, breezing, strumming, banging, blasting, croaking, chiming and more! Jam with the band as we make instruments out of ordinary objects.

August 13th - 17th, afternoons

Instructed by Elizabeth Yocom

To register for camp, please go to <http://www.lancastersciencefactory.org/summercamp/>
Or Contact Lauren at (717) 509-6387 or lschaller@tlsf.org