

SUMMER INSTITUTE  
FOR THE GIFTED

*Day Program*

-at-

Linden Hall School

*Lititz, PA*

July 18 - August 5, 2011

Open to students ages 6 to 12 by the  
time the program starts.



*New Campus!*



**SIG** •nif•cance [sig-nif-i-kuhns] (n.) A feeling of knowing who you are and where your life is headed. Similar to the feeling one gets when being part of Summer Institute for the Gifted.

*Through 26 years of experience and resources in Gifted Education, SIG provides a unique environment for gifted and talented students to connect with peers in a community of like-minded learners from all over the world who share common interests, abilities and goals. The overall atmosphere of SIG will nurture and grow your child's gifts.*

### Our Mission

The mission of the Summer Institute for the Gifted is to provide the highest quality educational and social opportunities for academically gifted and talented students through programs designed to meet their abilities and needs.

### About Linden Hall School...

Founded in 1746 and acclaimed as the oldest continuous girls' school in the United States, Linden Hall has been providing a singularly unique and multi-faceted education for over 260 years. Part of its mission has been to provide a safe learning community where students learn to ask questions, take risks, and develop positive self-awareness, making it a perfect summer partner for SIG.

Located just 50 miles west of Philadelphia, Linden Hall is located on a beautiful 47-acre campus in the heart of Lititz, Pennsylvania. Just 7 miles North of Lancaster, PA, the school is within minutes of a transportation hub served by train, bus, and commercial airlines. Come join us for our inaugural year at Linden Hall.

*The Summer Institute for the Gifted is a program of the National Society for the Gifted and Talented (NSGT), a not-for-profit 501(c)(3) organization created to honor and encourage gifted and talented children and youth.*

# Admissions Requirements

All Summer Institute for the Gifted programs require evidence of high academic ability and/or achievement. Documentation must be submitted at the time of application in the form of test scores, acceptance letters or other applicable evidence of giftedness. Students applying to attend the SIG Day Program at Linden Hall School must ages 6-12 by July 18, 2011.

**Students who meet one of the following criteria are invited to apply to SIG:**

- ✓ **STUDENTS WHO HAVE PARTICIPATED IN ACADEMIC TALENT SEARCH PROGRAMS**
- ✓ **STUDENTS WHO HAVE SCORED AT THE 95TH PERCENTILE OR ABOVE** in at least one of the major content areas or ability sections of a nationally-normed standardized test administered by their schools
- ✓ **STUDENTS WHO HAVE BEEN IDENTIFIED AS GIFTED** and/or who have participated successfully in a local or school gifted program
- ✓ **STUDENTS WHO HAVE SCORED IN THE GIFTED RANGE** on the PSAT, SAT, ACT or SSATB

If no local or school gifted program exists, or if no test scores are available, two SIG letters of recommendation forms can be submitted. For students ages 6 to 8, one letter may come from a parent; one letter should be from the school. For students ages 9 to 12, a letter from a teacher and a letter from a school administrator who is familiar with the student's record and performance should be submitted. The letter of recommendation form is available online at [www.giftedstudy.org](http://www.giftedstudy.org).

## Program Fee and Application Deadline

**The program fee for the Summer Institute for the Gifted Day Program at Linden Hall School is \$1,995.** For fees and payment schedule, see the application included in this brochure or visit us online at [www.giftedstudy.org](http://www.giftedstudy.org). **The application deadline is May 1, 2011.**

## Student Life

### LUNCH AND SNACKS

Lunch will be provided. Parents should provide any additional daily snacks they wish their children to have.

### HEALTH SERVICES

Any prescription medications to be administered to the students during the day are to be prepackaged, left with the director and administered solely by the director, if there is not a nurse on staff. Students who do not feel well during the session will be escorted to the office by a staff member and a parent will be contacted.

### EXTENDED-DAY SUPERVISION

SIG will provide supervised play, social, study and rest time before and after the regular program. The extended day schedule is as follows:

- 7:45 a.m. - 8:45 a.m. daily
- 4:00 p.m. - 5:00 p.m. daily or
- 4:00 p.m. - 6:00 p.m. daily

The cost for this three-week service is \$150 for morning supervision and \$150 for each one-hour segment of the afternoon supervision. Arrangements and payments for the service are to be made prior to the start of the program through the Summer Institute for the Gifted office.



## Academics

### INSTRUCTIONAL STRATEGIES

The teaching staff employs strategies that have proved to be particularly effective in stimulating and motivating academically gifted students. In addition to traditional methods, such as interactive lecture, question and answer sessions, and discussion groups, instructors use hands-on methods of learning that promote active participation, creativity and higher order thinking skills. Such strategies include debate, construction of models, simulations, dramatic performances, legal briefs and other demonstrations and projects that involve high levels of participatory learning.

### ACADEMIC PERFORMANCE & STUDENT EVALUATION

The goals and expectations of the Summer Institute for the Gifted program are specifically designed and geared toward providing a richness of environment, accompanied by enhanced opportunities for learning. Parents receive a final student performance review that assesses personal accomplishments and attainment of goals. This report is available online by mid September and can be sent to the student's school, with parental permission. A letter indicating successful student participation in, and completion of, the Summer Institute for the Gifted program also can be sent to the student's school, if parents so indicate.

## Courses By Age of Student

The following pages list all the courses that are offered. It is possible that a given course may not be available due to under- or over-enrollment for that course.

### SIG Schedule

7:45 - 8:30 a.m.	Extended-Day drop-off time
8:30 - 8:45 a.m.	Regular drop-off time
8:45 - 10:15 a.m.	Period 1 course selection
10:15 - 10:30 a.m.	Snack/Break
10:30 - 12:00 p.m.	Period 2 course selection
12:00 - 1:00 p.m.	Lunch and Activity Period
1:00 - 2:30 p.m.	Period 3 course selection
2:30 - 4:00 p.m.	Recreation period
4:00 p.m.	Regular pick-up time
4:00 - 6:00 p.m.	Extended-Day pick-up time

# Linden Hall School Course Offerings

Categorized by age of student upon start of program.



AGES SIX AND SEVEN

## PERIOD 1

**NEW! Storytelling (DP10):** Calling young authors! Create a new world of characters and fanciful settings in this class all about storytelling. Learn about different genres and points of view as you take the craft of writing to the next level! Publish your work in a class book, written and illustrated by YOU!

**The Curious Chemist (DP14):** The way materials are put together and the way they act under certain conditions is called the study of chemistry. Chemistry helps us explain the things that happen in nature. Chemists are scientists who use each of their five senses to explore and make sense of life. Experiment with water, acids, bases, and everyday household items to discover the chemical world in which we live. Design a series of experiments to test your predictions about the reactions of substances.

## PERIOD 2

**NEW! Transportation Transformation (DP11):** Explore the physics of motion and speed in air, land, and water by designing models to test scientific concepts! You will also investigate the physics of speed, and how speed affects transportation on water, on land, and through the air. Grab on to your helmet, it may be a bumpy ride!

**NEW! Patterns in the World (DP15):** From shapes to colors to numbers, you see patterns every day. Discover the patterns in your world, and how these patterns are used in math, architecture, science, and literature. Create meaning out of the patterns you observe in the sky and all around you!

## PERIOD 3

**NEW! Kaleidoscope: The Science of Color (DP12):** Did you know that light travels in a straight line, and that it is made up of many colors? Light can travel through things and bounce off things! You will learn about aspects of color such as transparency, translucency, opaqueness and how to bend and reflect light using prisms and kaleidoscopes. You will study the science of color and shadows as well as the more emotional side of color: why is anger red and jealousy green? Explore color and light as you investigate the scientific side of color.

**Game Strategy: Building Mental Muscles (DP13):** Opening play, mid-game, end-game - develop these strategies and more as you move across a chessboard or around a cribbage and backgammon board. Improve your memory, concentration, and ability to conceptualize as you engage in these ancient games of kings. Develop your ability to estimate and predict your opponents' moves. Create a personal repertoire of tactics and plays. Create a game that stumps your classmates.

AGES EIGHT AND NINE

## PERIOD 1

**NEW! Green-vention Convention (DP22):** Do you have a great idea for an energy-efficient car, a way to reduce the amount of paper used in school or a great new product that uses recycled materials in new ways? Bring your ideas to SIG's Green-vention Convention! Discover new ways to invent and market environmentally friendly products. Use creative problem solving, SCAMPER, FFOE, and other creativity strategies to stretch your mind and create a solution to a problem at home or school!

**The Hidden World: Beyond the Senses (DP28):** How do we know things we cannot see actually exist? Can you see the wind, an x-ray, or an emotion? In this class you will learn about seeing evidence of the invisible on a microscopic, cellular level or even further beyond things you can experience directly. Develop a deep appreciation for scientific methods and other ways of learning about the things we cannot detect with our senses of sight, touch, taste, smell, or hearing.

## PERIOD 2

**The Writer's Block (DP20):** Where do authors get their ideas? How does a science fiction story differ from historical fiction? What are the elements all stories need? Come have fun and gain writing experience creating new characters and a book of your own. The class will culminate with a reading of original stories to parents at a "Young Authors' Tea".

**NEW! The Story of Numbers (DP27):** Have you ever wondered why numbers function the ways they do? Investigate the story behind some of the most important numbers in mathematics, including zero, pi and the golden ratio. Make connections between number systems and the changing culture of civilization as these systems have evolved.

## PERIOD 3

**NEW! Origometry (DP21):** Explore geometry through paper folding! Construct geometric polyhedra and traditional origami designs while investigating mathematical constructs of symmetry, angles and tessellations. Create your own origami design to showcase an area of mathematical interest!

**Building Blocks of Engineering: The Way Things Work (DP24):** Are you a budding engineer or just want to know how to fix things? Do you stay awake at night wondering how things work? Then this is the course for

you! Gain a greater understanding of the world around you. Learn about the mechanics involved in the workings of everyday gadgets. Apply creativity and scientific principles to improve a current machine or invent a new one that solves a problem. Learn basic engineering principles and delve into the inner workings of vital machines.

## PERIOD 1

**NEW! The Past is Present: Anthropology in Action (DP41):** Have you ever wondered why rituals and traditions play such a big role in the world? Or what we can learn from excavating centuries old structures? Anthropology is the study of humans, what we know, what we think about, and even what we still question. Anthropology studies behavior and traditions of humans, both in the present day and in the past. Investigate a culture and determine what social and cultural influences lead to their current culture. Create a fictional culture and trace the group's path through the events of the last century. What do you think future anthropologists will find fascinating about the 21st century?

**NEW! Sneaker Economics (DP47):** Do you own a pair of sneakers? Do you know anyone who doesn't? Did you know that an \$80 pair of sneakers only has about \$11 worth of materials in it? Sneakers and athletic shoes are a multi-billion dollar industry and are so much a part of our lives that they provide a great way to learn about economics, technology and discovery, and innovation and design. In this class, students will explore the development of the athletic shoe over the last 100 years, while learning about the health and science of foot support as well as the economics and fashion aspects of the sneakers industry. Design the perfect sneaker for a niche market!

**Move Over Sherlock (DP48):** How do real detectives solve mysteries? Come examine how modern crime investigators use cutting-edge scientific discoveries to search for evidence, gather clues, and analyze data. Participate in a simulated mystery where you become the detective as you learn skills in logic, inductive and deductive reasoning, data collection, and analysis. This is a great way to practice using your scientific problem solving skills!

## PERIOD 2

**Anticipating Algebra (DP43):** "When will I ever use algebra?" you ask. Here's one way. Introduce yourself to pre-algebra through this class that focuses on applications of algebra in the world. In addition to tackling concepts of linear equations, polynomial functions and factoring, you may also have time for fun with games, tessellations, and probability.

**Chemistry: The Essential Element (DP44):** Welcome to the laboratory that is the world in which you live. Experiment with domestic chemi-

cals, environmental materials, foods, and living organisms to discover the chemical nature of substances, their properties, reactions and uses in daily life. Design a series of experiments to test your hypotheses about the reaction of substances.

**NEW! Do You See What I See? (DP46):** Have you ever stared at an optical illusion for hours, just wondering how the image was created, and how your mind was tricked? Do you know why people see colors differently, and why some people and animals only see certain colors, or even only in black and white? Investigate what you can and can't see with your eyes, learn about the anatomy of the eye, and how glasses and contact lenses help to correct people's vision. Research eye color and pigmentation, and the science behind albinism and heterochromia, having eyes of two different colors. Future optometrists and ophthalmologists, this class is for you!

## PERIOD 3

**Speaking, Writing, Empowering! (DP40):** Learn how to be a mass communicator through developing your writing and public speaking skills. Work on precision of language, imagery, figures of speech, and the revision process. Discover how you can use the power of your words to motivate, persuade, influence, inform, or entertain others. Investigate how to turn your skills, interests, and knowledge into speaking topics. Become a communicator who will have the potential to earn applause, admiration, and financial prosperity while motivating others.

**Going to Court (DP42):** "All rise for the honorable judge....you!" Through the process of enacting trials, you will experience the justice system of the United States. You'll take on the roles of judge, jury, prosecutor, defender or witness. Through active involvement in the courtroom drama, you will learn to organize facts, develop your speaking and questioning abilities, and understand the concepts of justice through jury deliberation.

**DNA: Your Unique Code (DP45):** How do cells make copies of themselves? How do your hair follicles generate protein to keep growing? The answers to these questions are DNA replication and protein synthesis. Investigate the structure of DNA and the processes by which it creates proteins. Learn what turns genes on and off. Gain an understanding of the structure that holds all the information and controls every cell within a living organism. Debate the ethical uses of DNA knowledge and the pros and cons of biotechnology.

*Please note: SIG is a program of NSGT, a 501(c)(3) organization, separately administered and operated by SIG, and is independent of any existing education program associated with any of our host campuses.*

