

# Staten Island Academy

## Summer Institute for the Gifted



### Summer 2011 Course Offerings

#### Courses for Students currently in Grades Kindergarten-1

##### Humanities

*The Write Stuff:* Would you like to become an author? Here is a chance to explore that question. You will use your imagination, as well as other tools, to create unique stories and illustrations. Analyze your favorite stories and discover why you like them so much. As a final presentation, you will be able to share your talents with family and friends.

*Different and the Same: Unique Cultures, Shared World:* What do children in India eat for lunch? How long is the Chinese school day? What kind of songs do Spanish children sing? Choose a country that interests you and learn about its traditions, values, and lifestyles. Discover how learning these things can help you become a global world citizen. Create and share your plan for explaining your personal traditions to others in a special celebration.

**NEW! Storytelling:** 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!

##### Math and Science

*Forces of Nature:* Explore the forces effecting earth, air and water. When the Earth releases underground energy, its crust shakes and moves, causing mountains to form and buildings to tumble. How are earthquakes and volcanoes related? Do meteorologists predict the weather? How do seismologists predict earthquakes? How do you prepare for a tsunami or hurricane? Design experiments to test the forces of nature. Then, compare the energy of the Earth to your own forces and energy to discover your own strengths while exploring those of Earth.

*The Curious Chemist: Chemistry in our Daily Lives:* 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 items to discover the chemical world in which we live. Design a series of experiments to test your predictions about the reactions of substances.

**NEW! Transportation Transformation:** 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! Kaleidoscope:** The Science of Color: 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., make good predictions, reason logically and appreciate the beauty of patterns all around us.

#### Multidisciplinary offerings on reverse.

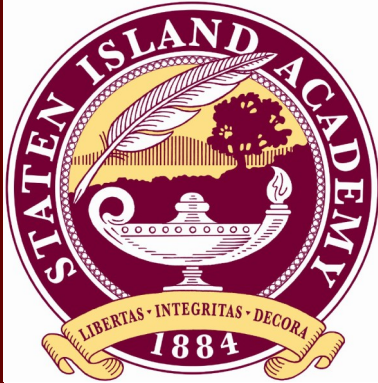
**For more information or to request an application please contact us or visit us on the web:**

**Staten Island Academy**  
**Summer Institute for the Gifted**  
715 Todt Hill Road  
Staten Island, NY 10304  
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#### Multidisciplinary

*Aspiring Architects:* Do you like to build things? Then this course in architecture should interest you. You will learn about the ways structures are built and why they are important through learning about form and function. Look into the lives of people who lived long ago as you become aware of architectural styles around the world and throughout history. Then test structural principles through simple building projects and experience the creative process of design as you create a structure of your own.

*Pattern Potpourri:* Have you ever noticed how patterns can be found all around you? This class will help you recognize and enjoy the patterns that can be found in music, words, art and even your own body! You'll get to listen to patterns in stories and rhymes and write some of your own, move your body and voice to rhythms and music, and view and create artistic patterns that interest you. You'll also become your own body's detective as you observe the uniqueness of your fingerprints, pulse, sleep patterns and breathing. Understanding patterns will help you make sense of the world around you, make good predictions, reason logically and appreciate the beauty of patterns all around us.

*Tutankhamun's Treasures: Ancient Egypt Revealed:* From tomb paintings, mummies, and the Great Pyramid, discover the secrets of ancient Egypt. Gain an understanding of the importance of religion to civilization. Decode the messages in hieroglyphs. Research the Boy King and the guardians of his tomb. Gain an understanding of the relationship between human leadership and the rise or decline of a civilization. Create a presentation that explains how a mummy can be considered a time capsule.

**Humanities and Math and Science offerings on reverse.**

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