

Morning Sessions

Grades 3-5

Fashionable Mathematics

Corinne Cheffer

Figure drawing is introduced by dividing paper into fraction parts which allows the students to explore proportion and symmetry. Various activities such as sketching the counselors doing poses, and measuring and drawing miniature versions of themselves give the students lots of opportunity to draw and explore figure drawing as a basic fashion design skill.

Grades 3-5

Do you have balance? Do LEGO bricks have balance? Jen Bielawiec

Ready for a challenge...? Each student will work to build and stabilize their structures made of LEGO bricks. Throughout the week we will work on ways to balance and strengthen structures, especially with our LEGO bricks. By the end of the week each student will have the opportunity to design and build stable/balanced structures.

Grades 4-6

Discover Newton's Laws of Motion

Marissa Hickson

Aspiring young engineers and physicists will design an original, exciting roller coaster attraction that will keep the crowds moving in all directions! Students will investigate Newton's Laws of Motion, including speed, acceleration, velocity, and energy. When designing their roller coaster the engineers and physicists will have to analyzing how energy is transferred and how various factors of the track will affect the motion of the cart. Students will have the opportunity to dig deeper into how motion, momentum, gravity, and force can all affect objects.

Grades 6-8

Creating Smart Phone Apps

Chris Zyrilis

Students will develop a hypothetical smart phone app that would utilize a specific area of mathematics. They would learn have to market their app to consumers for specific applications in school and work and demonstrate its functionality.

Grades 6-8

How to Make Money with a Blog Based on Your Passion

Ian Brown

Have you ever wanted to make money by doing something that you're both good at and that you love doing? Think it's impossible? It's not, I assure you. You just have to know how to match your passion with the needs and wants of the marketplace. You can always match a passion of yours with that of a large audience. It's a numbers game. In this course, you will learn how to discover which of your passions is marketable, how to find that market, how to attract and keep customers, how to make a blog and offers that sell, and how to create multiple passive income streams, which is the key to wealth and peace of mind.

Grades 6-8**What are the Chances?****Patti Hahn**

That you could have fun in a math camp? **One hundred percent!!!!** Join us for a fun filled week of probability. Learn about the Law of Large Numbers. Create and complete probability experiments exploring fair and unfair games and conditional probability. Our culminating project will be to design a Probability Carnival for friends and family to participate in on Friday. Join the fun and dazzle your family with your knowledge of expected value, binomial probability and Pascal's Triangle.

Afternoon Sessions**Grades 3-5****Picturing in Writing****Virginia Valace**

What does writing, art work and mathematics share in common- problem solving and critical thinking. This activity is designed to expand your "Multiple Intelligences" by adding Artwork and Expressive Writing into your summer day. Following an approach developed by Beth Olshanski, students will apply some hands-on art experiences to create quality picture books in an on-going Artists and Writers Workshop.

Grades 3-5**Virtual Dream Vacation****Patti Hahn**

Students will plan the ultimate dream vacation! Given a budget to spend, students will plan travel with three friends to the country or countries of their choice. They will research the country's culture, geometric aspects of its architecture, and mathematics games and activities children play. Students will plan an itinerary, including transportation, hotels, special excursions, and distances traveled. There will be a menu of items students can use to include in their travels. They will create a power point presentation of all their information and share it with classmates and family members on the last day of class. Come join the fun as we travel the world through a mathematical lens.

Grades 4-6**World Traveler****Corinne Cheffer**

Come travel the world on a number adventure. We will visit Japan for origami and angles and study tangrams from China. Moving on to Africa, we will explore river crossing puzzles and Mancala games, learn the origins of backgammon and more. Explore logical reasoning and problem solving around the world.

Grades 6-8**Become an Inventor Using Physics****Marissa Hickson**

Have you ever seen an intense, over-the-top contraption that allows you to complete a simple task? During this session students will channel American engineer, inventor, cartoonist, sculptor, and author Rube Goldberg to hone their problem-solving techniques using physics! Now as inventors the students will investigate topics ranging from Newton's Laws of Motion, simple machines, velocity, speed, acceleration, force, work, gravity, and more. Through their exploration of physics students will create and design a chain reaction machine of their own to complete a simple task.

Grades 6-8**"Game of Profit"****Jen Bielawiec**

Have you ever played "The Game of Life"? What if we had a "Game of Profit"? Students will engage in algebraic thinking, using equations, tables and graphs, to find the profit of businesses. Throughout the week students will build their "business" and will have a final profit summary by the end.

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Grades 6-8**How to Make Money with a Blog Based on Your Passion****Ian Brown**

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