

Camp Application for 1 week

Name: _____
Address: _____
City: _____
State: _____ Zip: _____
Phone: _____
Email: _____
School: _____
DOB: _____ Grade 9/2011 _____
Circle starting day: Aug 1 Aug 15 Aug 22

A \$50 deposit for each student is required to reserve a place at the camp. The Deposit must accompany this application. Make checks payable to: **Math & Physics Exploration**.

Parental consent:

I hereby certify that my child is in good health and may participate in camp activities. I remove the staff and Math & Physics Exploration from all liabilities and injuries incurred at camp.

Signature: _____

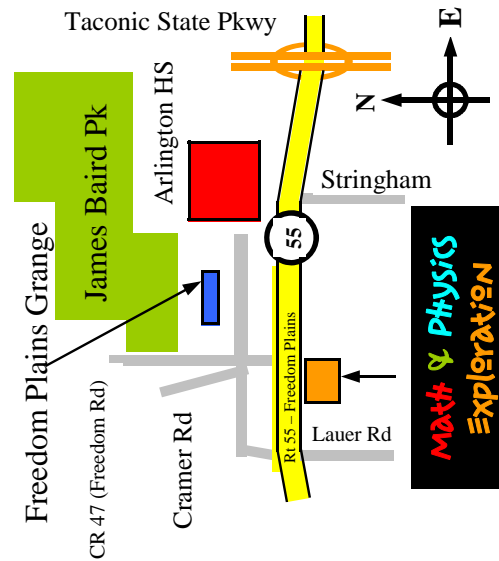
There will be a limited number of seats available. An afternoon session might be opened upon sufficient demand. To minimize cost and allergy issues, children may bring a "neat" snack and water from home each day. No food can be provided.

Send completed application:

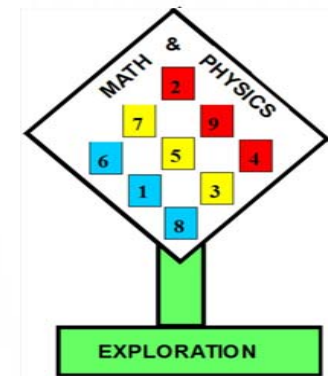
Math & Physics Exploration
1054 Freedom Plains Road
Poughkeepsie, NY 12603
Phone: 845-452-4862
immiller1@juno.com

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Summer Camp



1054 Freedom Plains Rd. (Rte 55)
845-452-4862

<http://www.mathphysicsexplore.org>

Learn how math can be fun, easy to learn, and useful in bettering your life. Impress your family and friends with your newly acquired skills.

Camp is 1 week long.



Our Purpose

The **Exploration** is open to visitors from ages 4 to 94. The purpose of the **Exploration** is to help everyone enjoy and understand mathematics. Through a series of exhibits and demonstrations, one can study topics from ordering to calculus and see how they apply to everyday situations.

About Math Education

With the invention of the electronic calculator, there is an opinion that the need for having good computational skills is passe. However, with the realization that developing computational skills is important to understanding math, the educational system is beginning to focus on developing strong computational skills. We, at the Exploration Center, take this further several steps. We show an effective way to learn the computational skills by utilizing patterns and we show the theory behind the computational steps.

The Importance of Parents

Besides being a role model, parents play an important part in their children's education. They provide the discipline and guidance while their child is learning, and they are the sounding board as the child tries to explain the problems and the procedures to be followed to solve them.

The programs

A. Computational skills

In learning computational skills, we develop studying and learning techniques that help us understand what we learn so that we can apply that knowledge to problem solving.

B. Puzzle and Problem Solving

Because we develop and apply a set of rules to successfully solve puzzles, we can apply that knowledge to problem solving in general.

C. Measurement and Geometry

Measurement is part of building and understanding our world. Geometry develops and utilizes these measuring skills.

D. Mathematical Theory

Everything has an explanation. Theory is that discipline that allows us to understand what we learn so that we can apply it to learning still more.

E. Applications to Physics

Using manipulatives allows us to observe physical phenomenon and use mathematics to interpret and to predict.

The Schedule

Day 1

Addition, Magic Squares, Measurement, and Ordering Cartoon

Day 2

Addition, Addition Theory, Multiplication Theory, Sudoku, and puzzles

Day 3

Addition, Geometry, Magic Triangles, Multiplication, Mechanical Advantage, Balancing Cartoon

Day 4

Multiplication, Pascal Triangle and Fibonacci Numbers, Fractions and Negative Numbers, Cartoon

Day 5

Exponents, Preparation for Science Fairs, Games and contests

Time and Dates:

9:00 AM to 12:00 PM for 1 week

August 1 –5, August 15-19,
August 22-26

Cost: \$100 per week \$50 deposit
Parents expected to attend two days