

## **Science, Engineering & Technology Camp**

This is a camp that will give children the opportunity to design, build and program robotic cars, animals, creatures and so much more! They will use Lego Challenge Kits and laptop computers to explore, investigate, experiment, question and build while engaging in hands-on science activities, creating enthusiasm and an understanding of science, math, engineering and technology.

**NOTE:** Swim lessons may **not** be scheduled during this camp. Children in this camp will also take part in traditional camp activities such as swimming, bowling, camp games and more. Projects in this camp will be both group and individual and will not be taken home.

\*Please refer to the **Important Registration and Parent Information** starting on page 33 & chart on page 45.

### **Sessions Offered:**

#### **LEGO ROBOTICS: ANIMALS, ART & ADVENTURE**

Session #1: Class #542 Camp Weeks 2 & 3 July 6 - July 10 & July 13 - July 17

#### **LEGO ROBOTICS: MYSTERIES, MUSIC & MAYHEM**

Session #2 Class #544 Camp Weeks 4 & 5 July 20 – July 24 & July 27 – July 31

#### **LEGO ROBOTICS: TECHNOLOGY IN THE CITY**

Session #3 Class #546 Camp Weeks 6 & 7 August 3 – August 7 & August 10 – August 14

### **Background Information about this Program**

With support from the IBM Global Work/Life Fund, Tuft's University' Center for Engineering Educational Outreach, created a Science, Engineering & Technology Summer Program geared to the interests and needs of children 10-14 years of age. The curriculum was piloted at four locations in the US and globally in the summer of 2004. **In the summer of 2006, Bright Horizons at Casperkill was only the fifth location to offer this program.**

### **Priority Enrollment for IBM Employees**

Since the development of this camp is funded through IBM GWLF, IBM employees will have priority enrollment from February 10th – March 20th at the Casperkill lobby office. Lobby hours are Monday – Friday, 8am –5pm. Payment is due in full at the time of registration. IBM employees must bring their Employee ID when registering.

**Enrollment will continue on April 4<sup>th</sup> (Camp Registration Day) and starting April 7, at the Athletic Office during Camp office hours. Weekdays, 7am – 8pm and Weekends 8am – 5pm. Registration will be first come, first served.**

### **Youth Ages 10-14**

Program runs in Two Week Sessions

Monday – Friday

9:00am – 4:00pm



**IBM Employee/Member: \$400 per two week session**

**Non-Member: \$430 per two week session**

**THERE IS LIMITED ENROLLMENT FOR THIS PROGRAM**



# **Engineering & Lego Robotics**

## **Cars, Trains, Imagination & Exploration**

### **Ages 8-10**

Engineering and Lego Robotics camp will introduce and excite children ages 8-10 with Lego pieces, their uses, engineering and the engineering process. Activities will be age appropriate in concept, difficulty and duration. This camp will create enthusiasm and understanding of science, math, engineering and technology. This year Casperkill is offering two different sessions for campers to enjoy.

**Robotic Explorations (Class #556):** Introduction to robotics, build dragsters, chair design & drop, alphabet beams, city lights, creating robotic pieces, programming robolab, zoo bots and structures and more!

**Robotic Inventions (Class #558):** Introduction to robotics, introduction to robolab, pitot robolab inventor, robotic bowling, snail car races, introduction to light sensors, Lego tug of war competitions, car building, build a train station and more!

**Note: Activities are subject to change**

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\*Please refer to the [Important Registration and Parent Information](#) starting on page 33 & chart on page 45.

### **Background Information about this Program**

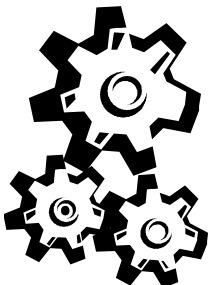
With support from the IBM Global Work/Life Fund, Tuft's University' Center for Engineering Educational Outreach, created a Science, Engineering & Technology Summer Program geared to the interests and needs of children grades 3-5.

### **Priority Enrollment for IBM Employees**

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**Enrollment will continue on April 4<sup>th</sup> (Camp Registration Day) and starting April 7, at the Athletic Office during Camp office hours. Weekdays, 7am – 8pm and Weekends 8am – 5pm.**

**Registration will be first come, first served.**



### **Class # 556**

#### **Robotic Explorations**

Program runs in Two Week Sessions ~ Monday – Friday  
9:00am – 4:00pm  
Week # 6 & # 7  
August 3 – August 14  
**Ages 8-10**

### **Class # 558**

#### **Robotic Inventions**

Program runs in Two Week Sessions ~ Monday – Friday  
9:00am – 4:00pm  
Week # 8 & # 9  
August 17 – August 28  
**Ages 8-10**

**IBM Employee/Member: \$400 per two week session**

**Non-Member: \$430 per two week session**

**THERE IS LIMITED ENROLLMENT FOR THIS PROGRAM**

# **Science & Discovery Camp**

Fill your child's summer with science and discovery. Children will have a blast with stimulating science activities, swimming, bowling and a variety of other summer camp activities. The children will be divided into two groups based on age. Projects will be both group and individual and many projects will not be taken home. Project Highlights for each week are listed below and are subject to change without notice.

\*Please refer to the **Important Registration and Parent Information** starting on page 33 & chart on page 42.

**NOTE:** It is **not** recommended to register children for swim lessons during participation in this camp.

## **"Roaring Rockets & Flight Week"**

Week #2 – Class #112 – July 6 – July 10  
Hands on projects include; rockets, paper airplanes, bottle rockets, marble launching and more.

## **"Super Science Scramble Week"**

Week #3 – Class #113 - July 13 – July 17  
Making a playground with recycled materials, making volcanoes, roller coasters and more.

## **"Freaky Force and Energy Week"**

Week #4 – Class #114 - July 20 – July 24  
Fantastic forces using K-Nex, Lego & capsela kits, solar cars and more.

## **"Mix- Up Madness Week"**

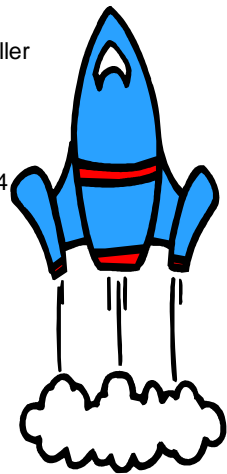
Week #5 – Class #115 - July 27 – July 31  
A combination of projects from other weeks: roller coasters, rockets, Legos and more.

## **"Creepy Crawly Week"**

Week #7– Class #117 – August 10 – August 14  
Learn about dinosaurs, dig fossils, dissect model frogs, model sharks, owl pellets and more.

## **Offered:**

Weeks #2 - #5 & #7  
9:00am – 4:00pm  
Ages 6-12



**Member: \$180 per week ◆ Non-Member: \$210 per week**