

# SPECTRUM

**Class offerings**

***FALL 2006***

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**Registrations accepted beginning September 25th**

# **Harvard Community Education**

## **Adult Education**

**Bridges Before and After School Program** *for Grades K-5*

**BASE** (Bromfield After School Extension) *for Grades 6-8*

**Spectrum** - Enrichment programs *for Grades K-5 (6)*

**Crosslinks** - Enrichment programs *for Grades (5) 6-12*

Artist-In-Residence Music Program

**Bridges Summer Adventure Program** *entering Grades 1-5*

**Global Child** *Grades K-5*

**Extended Day Kindergarten**

*Harvard Community Education*

*39 Massachusetts Avenue*

*Harvard, MA 01451*

*Tel: 978-456-4142 or 978-456-4118*

*Fax: 978-456-8592*

*Bridges program e-mail: [dmayo@psharvard.org](mailto:dmayo@psharvard.org)*

*Community Education: [jcavanaugh@psharvard.org](mailto:jcavanaugh@psharvard.org)*

# FALL SPECTRUM

## ART ANIMALS! Grades 3-6

*Leslie Hart, Parent*



Be an art historian! Learn about six different artists who had animals figured prominently in their art work. The first part of each class we will discover a new artist and talk a bit about art history. We will then try some techniques the artist used during the "studio" time of the class. The fun part of this class is all the artwork will center around an animal theme.

Tuesdays, 3:10-4:40 p.m Oct.17, 27, Nov. 7, 14, 28 & Dec. 5

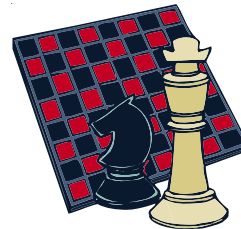
Grades 3-6  
HES Art Room



6 weeks  
Class Limit: 8  
Fee \$70

## CHESS CLUB Grades 3-5

*Elizabeth Sullebarger, Parent*



Join us for Chess Club! You'll have fun learning the basics of moving the pieces and playing the game with your peers!

**Parent Volunteer(s) always welcome!** Please call the Community Education office (978-456-4118) if you would like to help.

**Mondays**  
8:00-8:50 a.m.  
Starts October 23rd  
HES room 152 (Bridges Drama Room)

**Fee: \$65.00**  
**Class Limit: 10**  
**8 weeks**

# CHOCOLATE, CHOCOLATE & MORE CHOCOLATE!

Judy Cavanaugh

(PLEASE NOTE: Peanut butter will be used in this class)

We will use plastic molds and "paint brushes" to make chocolate treats like lollipops and peanut butter cups!

Monday, October 23, 2006      1 week

3:10-4:40 p.m.

Grades 4 & 5

HES Staff Lounge



\$18

Class Limit: 6

# HAND SEWING & QUILTING      Grades 4 & 5

Judy Cavanaugh



Do you have an interest in learning how to sew? Come give hand quilting a try! We will learn the basics of hand quilting while creating a block that will be used to make a pillow. We will also hand sew a 9 patch block to use as the backing for the pillow. There will be several patterns to choose from and different thread choices. You can take your project home with you each week to work on and watch your skills improve! Fabric, needles and thread will be provided. Please bring a thimble!

Thursdays, October 19, 26, November 2, 9

3:10-4:40 p.m.

Grades 4 & 5

HES Room 123

\*includes supplies

4 weeks

\$55.00\*

Class Maximum: 6

# MATH OLYMPIAD (Grades 4 & 5)

*Mr. Daniel Jones, Parent*

Join 150,000 students from 50 states and 25 countries for a new Math Olympiad season. Math Olympiad problem sets provide opportunities for children to engage in creative problem solving activities which develop a child's ability to reason, to be logical, to be resourceful, and occasionally to be ingenious. New concepts will be introduced briefly at the beginning of each session and a lot of time will be devoted to practicing skills in small groups with the help of parent volunteers. Students will also participate in the five monthly contests which will take place at HES during the school day.

Thursdays, starting Oct. 12th

8:00-8:50 a.m.

October-March

Grades 4-5

HES Cafetorium (occasionally in the HES Library)

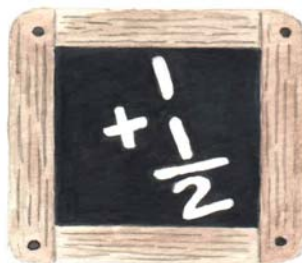
Parent Volunteer mandatory meeting: Oct. 5

Fee: \$60.00

Class Limit: 40 (Minimum: 20)

**Parent volunteers** are needed to facilitate group problem solving.

No previous experience or math expertise is necessary. Problem sets and solutions will be made available to volunteers ahead of time so they can prepare for each session. As a parent volunteer, you will commit to attend every Friday morning session or to find a replacement if you are unable to attend. A short introductory session for parent volunteers will take place on October 5th at 8:30 a.m. Parent volunteers will receive a 50% discount for this program. For more information on volunteering contact Brigitte Bovy at [bbbovy@yahoo.com](mailto:bbbovy@yahoo.com)



## **BASKETBALL CLINIC FOR GRADES 3-6**

Have fun while practicing passing, dribbling and shooting. Learn basic individual skills as well as how to play as a team. Please note the day/dates below. Bromfield Varsity players come to help out!

**GIRLS: Mon., Wed, Fri. Time: 3:25-5:00 p.m.**  
11/6 (M), 11/8 (W), 11/13 (M), 11/15 (W), 11/17 (F)



**BOYS: Tue. & Thurs.**  
11/2 (TH), 11/7 (T), 11/9 (TH), 11/14 (T), 11/16 (TH),

**For Grades 3-6\***

**Class Limit: 24**

**Note: 6th graders** may not enter HES until the elementary students have all been dismissed.

**3:25-5:00 p.m., dates as listed above**

**HES GYM**

**Fee: \$70**

**Interested in teaching a class for Spectrum, Crosslinks or Adult Education?**

Please give a call at 978-456-4118 or send a course description to:

**Harvard Community Education**

**39 Massachusetts Avenue**

**Harvard, MA 01451**

**or e-mail**

**[jcavanaugh@psharvard.org](mailto:jcavanaugh@psharvard.org)**

If there are courses you would like to see offered  
in any of our programs,  
please let us know!

## **MAD SCIENCE**

*Mad Science of Central MA*

Discover and explore! Join in some science fun! 6 weekly workshops which may include:



### **Magnetic Magic**

Investigate the powers and daily uses of magnets. Test for electro magnetic fields and then use what you have learned to build your own electro magnet...

### **Optical Illusions**

Build your own periscope while learning about optics, reflection and sight. Watch celebrity images change before your very eyes! Seeing is not always believing...

### **Lights ... Color... Action!**

Uncover the hidden components in ordinary light and build your own Newton's color wheel to prove it. Attend a spectacular chemical energy display!

### **Slime!**

Explore the exciting world of polymers, the chemical reactions we use to create them and the inner workings of silly putty. Transform two regular liquids into an oozing batch of your very own slime...

### **Sonic Sounds**

Discover sound, sound waves and the way household items can be used to create amazing movie effects. Use our multi-effects processor to make a cassette tape of your altered voice, with lots of cool special effects...

### **Harnessing Heat**

Witness a mini rocket launch while learning the properties of heat. Change the states of matter, turn solid candy into floss and make your very own cotton candy that you can eat!

**Starts Thursday, October 19th**

**3:15-4:15 p.m.**

**Class Minimum: 12**

**Maximum: 18**

**HES Art Room**

**6 weeks**

**Grades 1-5**

**Fee \$65.00**

# SCIENSATIONAL WORKSHOPS FOR KIDS

*MONDAY AND TUESDAY OF THANKSGIVING WEEK*  
(NO SCHOOL - PARENT/TEACHER CONFERENCES)

## **AMPHIBIOUS VEHICLE AND ROW BOAT WORKSHOP** **9:00 A.M. - 4:30 P.M.      AGES 7-12**

Build and take home TWO exciting projects. You will build an amphibious vehicle. YES!! One that can travel on land or shallow water. We will bring our shallow lake to test it out. You will learn as you build how the submarine motor, worm gear rudder, and the propeller work. It is one cool vehicle that is a challenge to build!! Participate in SCIENSATIONAL WORKSHOPS land water races. If that's not enough we will also build our own model rowboat. The sturdy white plastic hull holds all interior engine parts. Your model rowboat comes with oars. Watch as it swiftly travels in the SCIENSATIONAL WORKSHOPS' pool. See how the crank-arm, gear box, switch lever, and link-rod work. Nothing is hidden. You will also get to build other things. Design robots for a tug-of-war, sumo wrestling match, tractor pull, and other fun projects. Two great projects to build and take home while learning the SCIENSATIONAL way.



**November 20 & 21, 2006**  
**9:00 a.m. - 4:30 p.m.**  
**HES Cafetorium**

**Ages 7 to 12**  
**Fee: \$140.00**  
**Workshop minimum: 10**

# SCIENSATIONAL WORKSHOPS FOR KIDS

*MONDAY AND TUESDAY OF THANKSGIVING WEEK*  
(NO SCHOOL - PARENT/TEACHER CONFERENCES)

## **CAN YOU DIG IT?                      AGES 6-11**

**9:00 A.M. - 4:30 P.M.**

**Can You Dig It? - Fossil hunt - Do you dig Dinosaurs?** Archeology and Paleontology seem like big words to kids. Now Sciensational Workshops for Kids makes it come alive. Kids will do simulated fossil excavations with over 100 fossils, dirt, and lots of fun. Some of the fossils are up to 500 million years old. Discover an actual dinosaur bone and a 500 million year old trilobite. We will bring the cleaning brushes, 3 lens magnifier, labels and specimen bags. We will use our geological time and fossil chart. Identify 20 million year old sharks' teeth, mammal bones, and more. Make fossil plaster replicas of a cave bear tooth, ammonite, and Tyrannosaurus Rex tooth. See our plastic cast from the egg of a primitive dinosaur found in Mongolia. (That's no yoke!) See and work with our mineral collections. They are fantastic. Be a Rock Hound and identify different rocks and minerals. Be a Rock Detective. See our giant pumice specimen - it's from Mt. St. Helens. You'll go home with a picture of you lifting it in the air. Let's grow some beautiful crystals for you to take home. Sciensational Workshops for Kids is the largest operation in the Northeast where schools have using us for 22 years....Why? .... It's fun, and kids learn.



**November 20 & 21, 2006**  
**9:00 a.m. - 4:30 p.m.**  
**HES Room 152**

**Ages 6-11**  
**Fee: \$140.00**  
**Workshop minimum: 10**

# SPECTRUM PROGRAM

*Gretchen Henry  
Director of Community Education  
39 Massachusetts Avenue  
Harvard, MA 01451  
(978) 456-4142 or 4118 Fax (978) 456-8592*

## **IMPORTANT INFORMATION FOR PARENTS**

Please complete a **separate check for each workshop**. Additional registration forms are available from the Community Education office.

CLASS SIZES ARE LIMITED. **REGISTRATION WILL BE ON A FIRST COME FIRST SERVED BASIS (AS RECEIVED IN THE COMMUNITY EDUCATION OFFICE).** PARTICIPANTS WILL RECEIVE CONFIRMATION OF ACCEPTANCE INTO A PARTICULAR PROGRAM VIA E-MAIL ALONG WITH MORE DETAILED INFORMATION GENERALLY WITHIN ONE OR TWO WEEKS OF THE WORKSHOP START DATE. IF YOU DO NOT USE E-MAIL, PLEASE CONTACT THE OFFICE AT 978-456-4142 TO CONFIRM YOUR CHILD'S REGISTRATION.

Classes will meet according to the schedule in the brochure. Please note the specific times and classrooms listed under the program descriptions. Class meetings that are canceled due to teacher illness, an early release day, a school vacation, a day or inclement weather will be made up as an extra session at the end of the course. Unless otherwise noted, all workshops will be held at the Elementary School. Transportation will not be provided. Full payment must accompany all registration forms.

**Checks should be made payable to TOWN OF HARVARD/SPECTRUM.**

**REFUND POLICY:** Once a student has been accepted into a class, **no cash refunds will be issued.** Checks will be returned **only** if a class is cancelled. A credit voucher may be obtained by notifying the Community Education office **at least one week prior to the first class meeting.** Students will receive a **non-transferable** voucher that can be applied toward future SPECTRUM programs.

**LATE PICK UP POLICY:** Please make note of the time the class/workshop ends. **Parent/Guardians are** responsible for picking up their child(ren) on time at the end of class. Late pick up may result in a late fee of \$1 per minute payable immediately to the instructor.

*Thank You for Participating in Spectrum!*



# SPECTRUM REGISTRATION FORM

Name \_\_\_\_\_ Age \_\_\_\_\_

Address \_\_\_\_\_

Town/Zip \_\_\_\_\_ GR (06/07) \_\_\_\_\_

Home Phone \_\_\_\_\_

Parent Name \_\_\_\_\_

Parent Work Phone \_\_\_\_\_ Cell Phone \_\_\_\_\_

E-Mail \_\_\_\_\_

**PLEASE PRINT Confirmation is done via e-mail.  
If you do not use e-mail please call the office to confirm registration.**

Emergency Contact & Phone \_\_\_\_\_

**(Other than parent, in case parent cannot be reached)**

Class Name: \_\_\_\_\_ Fee\* \_\_\_\_\_

Additional Class \_\_\_\_\_ Fee \* \_\_\_\_\_

**\*\*\*Separate checks MUST be written for each class \*\*\***

\*Non Residents (does not include School Choice) please add \$10 non-resident fee

**I, the undersigned, attest I am the parent or legal guardian of the above named child who attends the SPECTRUM program and agree to allow him/her to participate in the above listed SPECTRUM class. I further agree to indemnify and hold harmless the staff, administrators, and official assistants and to absolve them from any and all liability arising from my child's participation in this activity.**

**I have read and am fully aware of the Refund Policy of Harvard Community Education and the SPECTRUM Program.**

\_\_\_\_\_  
PARENT/GUARDIAN SIGNATURE

\_\_\_\_\_  
DATE

Please make all checks payable to **Town of Harvard/Spectrum  
39 Massachusetts Avenue  
Harvard, MA 01451**

**Please note your child's name on the check.**