



**Hands On Science**  
MCCPTA-Educational Programs, Inc.

www.hosprograms.org

# Winter Registration

8 weeks

Cost: \$90

(1/19-3/8 or 1/30-3/26)

Registration due to HOS volunteer by January 6, 2010




Classes begin the week of 1/17/2012 at your school.  
(Monday class starts on 1/30/2012)

Your HOS Volunteer Elizabeth Whitman

Phone: 301-983-4532

Email elizabethwhitman@verizon.net

## MECHANICAL ENERGY

Spinners	Toymaker	Bright Ideas
GRADES K-1	GRADES 2-3	GRADES 4-5
 <p>Mondays or Day <u>Thursdays</u> Time <u>3:30-4:30</u></p> <p><b>Sing a song of friction.</b> What does friction have to do with how quickly a marble or button races through a maze? How is a spinner like a wheel and axle? How does the size of a wheel change the distance it covers? Sing a song of friction. Join us for lots of "well-rounded fun."</p>	 <p>Day <u>Thursdays</u> Time <u>3:30-4:30</u></p> <p><b>How can you make a pulley to send messages?</b> Jiggle a bear up a string if you're so inclined. How far can you send a cotton ball with your catapult? Construct toys and games using simple materials to explore wheels, levers, wedges, inclined planes, pulleys and screws.</p>	 <p>Day <u>N/A</u> Time _____</p> <p><b>Be an inventor!</b> Make your own version of a flashlight, an electric circuitry game, a simple motor, a steady hand tester and Jefferson's cipher. Try your hand at copper plating and a device that looks as if it's defying gravity. Use your talents in the science of inventing.</p>

## General Policies and Payment Information Explained on Back

TO REGISTER YOUR CHILD FOR THIS HOS SESSION, CLIP AND RETURN THIS PORTION / PLEASE PRINT

Name \_\_\_\_\_ Gender \_\_\_\_\_ Grade \_\_\_\_\_ Phone (H) \_\_\_\_\_ (W) \_\_\_\_\_

Parent's name \_\_\_\_\_ Address \_\_\_\_\_ Zip \_\_\_\_\_

Email \_\_\_\_\_

Emergency Contact Person \_\_\_\_\_ Phone \_\_\_\_\_

HOS class choice \_\_\_\_\_ Day \_\_\_\_\_ Time \_\_\_\_\_

For K-1, specify, Monday or Thursday or, if either day is okay, state Either

Daytime school \_\_\_\_\_ Homeroom teacher \_\_\_\_\_

I have paid via PayPal at [www.hosprograms.org](http://www.hosprograms.org) and attached my payment receipt to this registration

Please send completed form with Paypal receipt to: Elizabeth Whitman

10808 Gainsborough Road, Potomac, MD 20854

Fax: 301-576-5172

E-Mail: [elizabethwhitman@verizon.net](mailto:elizabethwhitman@verizon.net)

I have read and understand the HOS General Policies (on back). Parent/Guardian signature \_\_\_\_\_



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**GENERAL POLICIES:** Unless otherwise notified, classes meet for one hour. The minimum class size is 10. Children must register for their current grade level. There is no food consumption during class. Once registered, there are no refunds unless the program is canceled. HOS Adult Leaders do not have access to children's school records. We reserve the option of requiring the withdrawal, without a refund, of any child whose inappropriate behavior prevents the class from proceeding constructively despite the efforts of staff and parents. There are no provisions for supervising children when they are not actually in class and neither the HOS Programs nor the facility can assume responsibility for them. Parents who fail to pick up their children on time will be asked to withdraw them without a refund. Please be aware that any materials, including ours, can be unsafe when not used as intended. Photos and video recordings of the children may be used for publicity purposes. Data may be collected confidentially for research purposes only. The MCCPTA-EPI Hands On Science Programs admit students of any race, color, national and ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students in the program. HOS Programs do not discriminate on the basis of race, color, national and ethnic origin in administration of its educational policies.

### Contributions

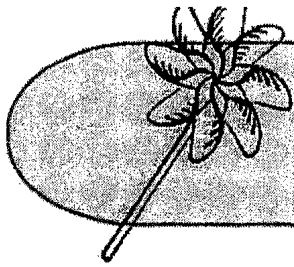
**CONSIDER MAKING A DONATION TO HANDS ON SCIENCE** – via PayPal or personal check (written to MCCPTA-EPI Hands On Science) you may contribute the dollar amount of your choosing to:

- **The Hands On Science Program** – our not-for-profit organization partners with schools and communities to provide quality science enrichment activities for children in Pre-K through fifth grade.
- **Scholarship Fund** – Makes Hands On Science classes available to children who would otherwise not have the financial means to attend (full scholarship is \$90, half \$45)

**All registration forms and payments are due to your HOS Coordinator by January 6. Unfortunately, we are unable to accept late registrations.**

### Payment

1. **PAY FEE ONLINE VIA PAYPAL** – Visit the Hands On Science website at [www.hosprograms.org](http://www.hosprograms.org) and click on the payment link. Follow the instructions and submit payment. Print a copy of the payment receipt and attach to your registration form. Place both in an envelope addressed to your Hands On Science Volunteer Coordinator on or before the date due.



# Spinners

## MECHANICAL ENERGY

Grades  
K-1

# On the "move" this winter with HOS!

Winter Hands On Science (HOS) classes now enrolling! During eight, one-hour classes, your child will explore science in a fun, hands-on environment.

### Hands-on activities include:

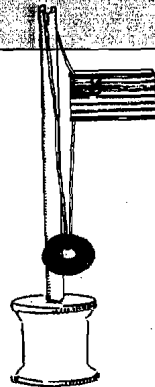
- making your own friction game
- designing a self propelled boat
- experimenting with wheel size on "cars"
- making a model of a flag pole pulley system
- ...and many more!

### Science explorations in "Spinners" include:

- experiencing friction and movement
- comparing cylinders to spheres and wheels
- exploring pulleys
- ...and many more!

*Hands On Science Leaders say,*

“ The children were so excited and filled with energy and questions...one of my students said, 'I wish we still had Hands On Science, it was fun!' ”



“ HOS is a fabulous enrichment program. The children look forward to it and have fun learning. ”

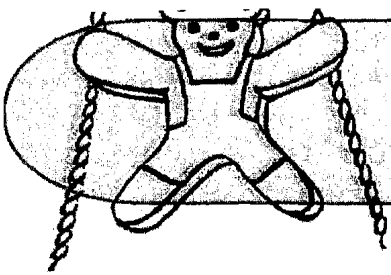
During each HOS class, your child will actively participate in each activity with his/her own hands-on materials. Questions asked during class will challenge your child to think critically about the world around him/her as he/she explores mechanical energy. After each class, your child will bring home materials for display, discussion and further discovery.

**Sessions now enrolling—register today!**



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# The Toymaker

## MECHANICAL ENERGY

Grades  
2-3

# Explore “energizing” science this winter with HOS!

Winter Hands On Science (HOS) classes now enrolling! During eight, one-hour classes, your child will explore science in a fun, hands-on environment.

### Hands-on activities include:

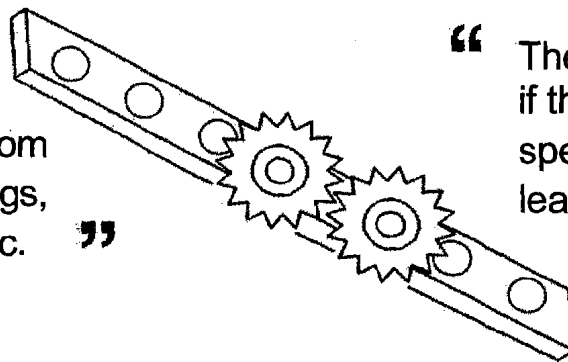
- Designing a catapult
- Creating pulley systems
- Using an incline to move a toy up a string
- Making a new toy using simple machines
- ...and many more!

### Science explorations in “The Toymaker” include:

- Simple machines and “work”
- Exploring gears, levers and pulleys
- Springs and the simple machines at work in toys
- ...and many more!

*Hands On Science Leaders say,*

“ One child was so ‘into’ the class, he would bring things from home to show: springs, gears in a timer, tools, etc. ”



“ The kids were able to figure out if their bike at home is one speed or five speed after learning about the size, location and number of gears it has. ”

During each HOS class, your child will actively participate in each activity with his/her own hands-on materials. Questions asked during class will challenge your child to think critically about the world around him/her as he/she explores mechanical energy. After each class, your child will bring home materials for display, discussion and further discovery.



**Sessions now enrolling--register today!**

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