



# KOPERNIK OBSERVATORY & SCIENCE CENTER

698 UNDERWOOD ROAD, VESTAL, NEW YORK 13850  
PHONE (607) 748-3685 \* FAX (607) 748-3222 \* WWW.KOPERNIK.ORG

**HOMESCHOOL  
SCIENCE  
Winter / Spring 2014**

*Kopernik offers Homeschool families an opportunity to enrich their home science, technology, engineering and math courses. Homeschool families find our 2 hour classes at a reduced price a terrific bargain and a chance for their children to meet and work as scientists with other students from this area.*

*A minimum of 9 students needed to run the class Questions? Please contact Tish Bresee 748-3685 ext 305.*

**Homeschool Family Night: Learn to Use Telescopes** **Thurs. Feb 6th 6-8 pm \$20 per family**  
Bring the whole family to learn about observing the night sky. Students will be taught skills on the use of binoculars, and telescopes such as Dobsonian and refractors, such as how to find objects and focus on them and in some cases photograph nighttime objects. If cloudy, students will take pictures with telescopes/cameras indoors and process images in Kopernik's computer lab.

**Homeschool Star Stories: Grades 1-4** **Tues. March 4<sup>th</sup> 10 am-12 pm \$20/child**  
Find Dragons, Bears and a Flying Pegasus in the sky! All it takes is an imagination and a star chart to find your way through the constellations. Students will learn classic Greek and Roman myths, use the Sky simulation software "Stellarium" then make a Sky Wheel to take home and use all year long. Skills taught include reading star maps, learning compass direction, paths of the planets, Moon and stars, understanding constellations.

**Homeschool Bare Bones Ecology: Grades 2-6** **Tues. March 18<sup>th</sup> 10am-12pm \$20/child**  
What did the owl have for dinner? Students learn about life in the food chain as they open up clean, dry owl pellets (what the owl spits out), and reassemble the skeletons to identify the critter inside. Students will learn skills in comparative anatomy by seeing how a mouse skull compares with a rat or a vole and what it means to be a vertebrate. We will play a game using Kopernik's collection of X-Rays to compare animal skeletons with our own. The activities provide skills in biology and nature to better understand the food chain, food web, and ecology.

**Homeschool Chemistry for Kids: Grades 1-5** **Tues. April 1<sup>st</sup> 10am-12pm \$20/child**  
Students create bubbly, gooey, bouncy fun at Kopernik as we explore stretchy molecules to make bouncy balls and other exciting chemical changes. Skills taught include modeling a molecule, learning to read the Periodic Table of Elements, measuring and mixing liquids, understanding parts of an experiment such as control and variable, using the scientific method to obtain conclusions.



**Homeschool Fossils in your own Backyard: Grades 2-6** **Tues. April 22<sup>nd</sup> 10am-12pm \$20/child**  
Young scientists will love tracing the history of the Earth back in time to 350 million years ago with evidence of the Devonian Period, when New York was under a tropical sea teeming with life. Crack open a fossil rock to find a beautiful treasure: fossilized shellfish, coral, and sea lilies. Skills taught include observing and classifying fossils, using microscopes, lenses, rock tools, sketching and photographing fossils.

----- **HOMESCHOOL SCIENCE REGISTRATION Winter / Spring 2013-14** -----

**Family Night**     **Star Stories**     **Bones**     **Chemistry**     **Fossils**

Student name: \_\_\_\_\_ Current Grade \_\_\_\_\_

Parent/Guardian/Grandparentname: \_\_\_\_\_

Address: \_\_\_\_\_ City/St/ZIP \_\_\_\_\_

Phone: \_\_\_\_\_ Email Address: \_\_\_\_\_

Enclosed is: \$ \_\_\_\_\_ (checks payable to "Kopernik Observatory") KOSC Member  Yes  No (add \$60 to join)

Credit Card # \_\_\_\_\_  Visa     MasterCard     Discover

Name on Credit Card \_\_\_\_\_ Exp Date: \_\_\_\_\_ CVV code (3 digit code) \_\_\_\_\_

Registration form & payment must be received three days prior to class.

Homeschool Winter 2014 KOSC 698 Underwood Rd. Vestal NY 13850

Email: registration@kopernik.org FAX (607) 748-3222 or call Kasia at (607) 748-3685 x 308.

For more information: Contact Tish at x 305 or visit our website at www.kopernik.org

Refunds available (less a \$5 administration fee) if student withdraws 7 days prior to the start of the class.

Received \_\_\_\_\_

DB \_\_\_\_\_

QB \_\_\_\_\_