

## STRUCTURE & CHANGE

### FALL – Anatomy

#### GRADES K-1 **Featured Creatures**

Look at the "hide and seek" of camouflage. Do experiments with wool, cotton and hide samples. Compare movement, self protection and bone structure as they relate to outer animal shapes, through projects, games and explorations.



#### GRADES 2-3 **Jaws and Claws**

Sharks, alligators, eagles, bears and even people – everybody's got to eat! How do teeth and beaks give us clues to an animal's diet? What stains and cleans tooth enamel? Take home a real shark's tooth, a plastic eagle talon and more.

#### GRADES 4-6 **Clue Club**

Can you curl your tongue? How's your reaction time? What's inside the mystery owl pellet? Make connections from your box of bones. How do various embryo pictures compare? How do you find and compare the clues of life on earth?



MCCPTA-EPI  
HANDS ON SCIENCE

### WINTER – Chemistry

#### GRADES K-1 **Chemistry Detectives**

Experiment with mixtures, solutions, acids and bases. Learn how to waft. Make glue from milk. Concoct scented soap balls, bath salts and ink. Help solve the gold paper caper. Children become science sleuths with safe, common substances.

#### GRADES 2-3 **Chemistry Creations**

How can you use chemical reactions to identify unknowns? Did you know your own kitchen has a full laboratory complete with equipment and chemicals? Learn how to safely mix and measure to enjoy the magic of changing colors, liberating gases and analyzing various antacids.



#### GRADES 4-6 **Your Own Mini-Lab**

Set up a mini-lab by making your own test tube rack as basic equipment. Make cheese, glue, play putty and more. Test for viscosity, solubility, acid/base reactions with safe stuff only. Use your skills to have fun with results.

### SPRING – Earth Science

#### GRADES K-1 **Layers**

The clouds above and the earth below with so much in between! Make a model of "earth layers" and life on a log. Experiment with porosity. How do different layers around us look, feel and test out? Can you make sand from a rock? What layers do you leave behind?



#### GRADES 2-3 **Rocky Road**

Rocks that sparkle, rocks that float. Make your own crystals. Learn to test what you find. How are rocks formed and where do they go over time? Use gemstones to make a piece of jewelry. Geology is fun as you join this class and start your own collection.

#### GRADES 4-6 **Terra Quest**

What can your amber samples tell you about life on earth? How does your bi-dot compare to your thermometer? Simulate the effects of acid rain and toxic waste on the environment. Make your own simple instruments to look at the earth, wind and sky.

HOS's **three-year cycle** of programs allows children to choose HOS as a regular enrichment activity, without repetition, from ages four to twelve. To view the complete three-year cycle, please visit [www.hosprograms.org](http://www.hosprograms.org). Or email us: [info@hosprograms.org](mailto:info@hosprograms.org).