



FOR YOUTH DEVELOPMENT®  
FOR HEALTHY LIVING  
FOR SOCIAL RESPONSIBILITY



# SUMMER YOUTH MAD SCIENCE NIGHTS

**6:30pm–7:30pm Outdoor Play Zone\* Ages 10–16**

\*Experiments and Area subject to change based on inclement weather.

## July 28th **Elephant Toothpaste Activity**

Elephant's toothpaste is a foamy substance caused by the rapid decomposition of hydrogen peroxide using potassium iodide or yeast and warm water as a catalyst. It's a fun experiment using common household chemicals to show youth how things react when you mix them together.

## Aug 4<sup>th</sup> **Walk on Water Activity (Non Newtonian Liquid)**

A Newtonian fluid is one which maintains constant viscosity. Corn starch in water is a non-Newtonian fluid because its viscosity changes according to pressure or agitation. When you apply pressure to the mixture, you increase the viscosity, making it seem harder. (All participants should dress appropriately for a water activity – clothes and feet will get wet with this experiment.)

## August 11<sup>th</sup> **Coffee Filter Chromatography Art Activity**

Chromatography is the process of separating mixtures. As the coffee filter absorbs water through capillary action, the black ink moves through the filter and is separated by the water into other colors. You should see blue, green and even red as the water separates the ink.

Facility Members: FREE • Program Members: \$5 per youth per class  
**Registration required. See Member Services for more information.**

Per age guidelines: a parent/adult guardian of any youth 10–12 participating in our program must remain on YMCA premises for the entire duration of the program. Participating youth must wear gloves/eye protection/goggles during the program (provided by the YMCA).