

## Workshop Descriptions

December 7, 2011

***Cutting to the Heart of Science*** – Have you ever wondered what a heart looks like? Have you ever wanted to hold a real heart in your hands? You will get the opportunity to do just that in this exciting workshop! Come and learn the anatomy of and dissect a REAL sheep heart.

***From Silly Putty to Recycling: Exploring Polymers*** – You will examine polymers and how they relate to different plastics and recyclable materials. You will also connect silly putty to polymer crosslinking.

January 31, 2012

***Electricity: It's Shocking!*** – Come explore the properties of electricity and learn some basics of your house wiring! Students will be able to safely experiment with electricity, find out what affects it and walk away with their own miniature electronics kit. Learn how your house electric circuits work and how to safely experiment with this shocking force of nature!

***Multi-hued Chemistry: Colors to Dye For*** – Come and learn about tie-dye chemistry! Learn how to make indigo dye in the chemistry lab, explore it's properties and tie-dye a pair of your own white cotton socks! Bring a new pair of white cotton socks and your creative ideas for folding patterns.

March 1, 2012

***Bungee Barbie*** – Examine linear functions in this workshop. Design, build and test a rubber-band chain bungee cord to enable Barbie to safely execute a thrilling jump from a cliff. If the cord length is too short, she doesn't get much of a thrill; too long, and ouch!

***Motion Graphics*** - Participants will be introduced to the development of video games through creating a simple animated character using ToonBoom Studio. They will then combine their character with pre-made backgrounds and create a simple game using Game Salad. Participants will get a taste of what it's like to create video games from the angle of design, art and animation and code.