

## Mid-Year 2008/2009 Program

### Workshops (1-11 February 2009)

#### **Human Body – Target Age Group: 6-9 years**

The human body is the entire physical and mental structure of a human organism. By the time the human reaches adulthood, the body consists of close to 10 trillion cells. Groups of cells combine to form tissue, which combines to form organs, which work together to form organ systems. This workshop is about the human body and its enthralling wonders. It includes experiments about lung capacity, digestion, DNA, the skeleton, pulse, as well as embryonic stages.

#### **Plants– Target Age Group: 6-9 years**

Plants are living organisms that include familiar organisms such as trees, herbs, bushes, grasses, vines, ferns, mosses, and green algae. Green plants obtain most of their energy from sunlight via a process called photosynthesis. During this workshop students learn the importance of plants to humans. They will study their characteristics and components, see the environment where they grow, learn the process of photosynthesis and its importance for humans.

#### **Chemistry – Target Age Group: 9-12 years**

Chemistry is the Science of change. It looks at all the different kinds of substances and how they interact with each other. People in widely differing walks of life use chemistry every day. The chemistry workshop comprises some simple and fun scientific experiments that familiarize children with some chemical secrets, such as: the secret of chemical reactions, atoms and molecules, the difference between compounds and mixtures, acid base reactions ... etc.

#### **Fun with Science – Target Age Group: 9-12 years**

In collaboration with the BA Young People and Children libraries, Fun with Science applies a series of fables containing valuable messages that aim to provide children with a scientific basis, enabling them to make use of scientific facts as a creative tool. A major theme of the workshop is the introduction of "systems thinking"; children learn that everything in the world is interconnected.

This cycle's fable is "Tree Candy"; children will discover that trees contain sugars that are not harmful to teeth; sugarcane is rich in fibers that could be used in making paper; and that the world has a tremendous amount of natural resources; thinking creatively will allow us to make the best use of these resources.



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### Programs (1-11 February 2009)

#### **Super Science Show – Target Age Group: 6-12 years**

The Super Science Show is a dynamic and highly motivational activity that gets children involved in exciting hands-on experiments in the fields of Physics, Biology, and Chemistry that stimulate infectious enthusiasm. This ever-intriguing show allows children to use a variety of materials, such as balloons, bouncing balls, balance board, water, liquid Nitrogen, dry ice and soda cans.

#### **Techno Camp – Target Age Group: 6-16 years**

TechnoKids is a trusted and valued publisher of technology curricula that is used on daily basis to teach thousands of students the skills that will best prepare them for the digital age. Techno Camps are a variety of sub-programs tailored for specific age groups of children.