



Junior Engineers - System 4

A system designed for builders and curious minds! Children become engineers and detectives, exploring the Earth, machines and the mysteries of science. Each challenge stimulates ingenuity and logical thinking.

Description:

Participants are introduced to **simple machines, special effects, kitchen chemistry, and Earth sciences**. They observe fluorescent minerals, recreate an earthquake, discover the fascinating world of insects, and use forensic to solve a mystery.

And so much more...

Each system offers a unique selection of workshops, different from the others, so children can enjoy new discoveries every session.

This list is not exhaustive; content may vary to provide each group with an adapted, surprising, and captivating experience.

Bugs!

Insect anatomy is introduced and examined up close. An ultraviolet powder demonstration lights up the truth on how insects spread pollen. Children learn how insects adapt by building insect puzzles at habitat stations.

Detective Science

The children examine fingerprints, mystery powders, ink samples, and teeth impressions. They also practice their memory skills to create a composite! Analyzing all the evidence is what helps pinpoint the perpetrator.

Kitchen Chemistry

Children get clued in on the chemical reactions that occur when they prepare, analyze, and digest their food. Children divide common kitchen activities into chemical and physical reactions. A balloon blow-up demonstration helps them discover that yeast makes bread rise.

Walloping Weather

A demonstration using heat sensitive paper and a flashlight brings to light the reasons for seasons. Children discover how air affects weather, and perform a test to prove that air is everywhere. Children try out tools that meteorologists use to measure weather.

Science of Toys

Children test, play, and ponder over what makes toys work. They spin into action with kinetic top toys. One changes color and one flips over, but they all release stored energy. Children learn that opposites attract with magnetic toys and then take a turn at creating a gear train.

Movie Effects

Exciting demonstrations and hands-on activities allow children to discover the science behind the amazing sound and weather effects from their favorite movies. Children investigate 3-D technology, and experience how this effect can make them feel like part of the action.

Mad Machines

Children discover how simple machines make our lives easier. Children launch with levers, secure with screws, and work with wedges through hands-on activities! A large child operated pulley system demonstrates how pulleys help us move heavy objects easily.

Earth Works

Earthworks Earth's layers are introduced with a spotlight on its outer rocky layer. Children inspect minerals with an ultraviolet light to see them fluoresce. They model the moving plates that cause bends and breaks in the Earth's solid rock layer.