

## **SYSTEM 3: FANTASTIC PHYSICS**

Physics is the science that just won't quit—it's everywhere! We'll find physics in magic tricks, in stunt plane wings, in electrical currents...even a little bit in chemistry!

### Under Pressure

Find out why "thin air" is actually one tough cookie! Use air pressure to create vortex pockets with a punch, lift a model boat off the ocean, and levitate ping-pong balls in defiance of gravity!

### Che-mystery

Eliminate the mystery in chemistry! Explore one of the most exciting and fundamental sciences as you grow a crazy crystal garden and make your own "chemical" soda pop!

### "Current" Events

It's electric! Find out how electricity in our homes works by building a circuit and testing conductivity. See how our own bodies can conduct and find out why fuses are fun by blowing one up!

### "Fun"-damental Forces

Gravity... Inertia... Centripetal force... who says physics is hard? We'll experience these fantastic forces for ourselves and watch them work with gyroscopes, vortexes and tornado tubes!

### Wacky Waves

Water, water everywhere—let's experiment! Create your own multidensity wave bottles while learning about water, waves and the environment. Simulate the effects of an ocean oil spill and develop creative techniques to clean it up!

### Science of Magic

What's the magic word? *Science!* See how magicians use science to pull off some astounding illusions. Learn the secrets behind famous magic tricks that you can recreate for yourself!

### Stunt Planes & Gliders

The Wright Brothers would be proud as we follow in their footsteps and learn the fundamental principles of flight. Experiment with designs for paper airplanes and build your very own Skyhawk stunt plane.

### Super Structures

Can we build it? Using triangles, cylinders and arches we can! Learn how combinations of these shapes make for sturdy homes and skyscrapers! Build a bridge, a skyscraper, and take down a teetering tower of blocks by studying tension!