SCIENCE CAMP

Grades 2nd - 4th

June 5-8 2019

Wiggle Bot

Propeller Car

Cork Boat Race

Magic Milk

Cell Cookie
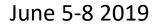
Science Camp is fun, activity oriented camp designed to give a look at science using interesting activities.. Space Camp is taught by Kevin Cobble owner of Z-Field Observatory in Princeton.

Day 1: **Air and Water**. Air and water are all around us, but what are they and how do we interact with them. Why can you inflate a balloon, why do things float in water? How much does air weigh and how do we measure it? What makes a tornado and why does it rain. We'll learn these secrets of nature and more. **Activities: Make bubbles to see how they form, make a barometer to measure air pressure, find out why objects float, make a tornado in a bottle and have it rain indoors, Cork boat race!.**

Creating Crystals

Day 2: **Biology**. What is a cell and what makes it work? We'll look at the microscopic world around us. What do bugs look like up close? How do RollyPolly bugs act? How do plants breath and can we use them to make bread? **Activities: Use the microscope to look at different items like cells, bugs and plants. What lives in water in ponds? Have fun with Rolly Polly bugs. Use Yeast to find out how bread is made. Make Cell cookies!**

Day 3: **Chemistry**. What is an acid and what is a base and what happens when you mix them? What is density, we'll build a lava lamp to find out. What are crystals and how do they form? We'll make some using household items. What is a solution and what are fats? Find out in Magic milk. We'll make Flubber to see what a polymer is. Find out the fun of chemistry. **Activities: Alka Seltzer lava lamp, Creating Crystals, Magic Milk, make Flubber and other fun experiments!**

Day 4: **Electricity**. What is electricity? How does a motor work? Learn about electricity from Static Electricity in your hair to batteries and electronic circuits. Is there electricity in objects around you like a potato? Build working robots and learn how a flashlight works by building one. **Activities: Static Electric Butterfly, Propeller Car, Wiggle Bot, Pocket Flashlight, Potato Battery**