

Science in the Kitchen Summer Camp

Course Summary

Science in the Kitchen encourages students to think about, discuss, and participate in scientific experiments using household items. Your student will complete a variety of hands-on experiments on topics exploring the properties of water, states of matter, ecosystems, and physics. Throughout this course, your student will learn the importance of each experiment and its impact on modern day life. This course's vocabulary is suited to an elementary school audience.

Course Directions and Tips

The student will receive information from their summer school teacher about LiveLesson Sessions, message board posting and required assignments during the first day of summer school.

Buoyancy and Density?

1. Density Which liquids above will be the heaviest? Which will be the lightest?
2. Rockin' Raisins: Are raisins more or less dense than water? Does adding carbonation to water change how the water affects the raisins?
3. Ribbons of Liquid: Which liquids have the greatest density? Which items will float? Which items are denser than certain liquids?
4. Not Your Parents' Lava Lamp: How does a lava lamp work? What does density have to do with lava lamps?

2. Color and Light

1. Soap Bubbles: Up, Up, and Away! Can soap bubbles float and remain in a certain area? What colors do you see in soap bubbles? Do soap bubbles come in different shapes?
2. Candy Color Breakdown What dyes make up the colors of colored candy jots? Will some dyes travel different distances up the wet coffee filter?
3. The Colorful Side of Black What colors make up black? What happens when black marker mixes with water on a coffee filter?

4. Out of the Dark: A Rainbow! How can you use water, a mirror, and a flashlight to create a rainbow?

3. Plants

1. Sprouting Seeds Will seeds grow better in certain liquids? Can seeds grow in any liquid? What liquid helps seeds grow best?

2. Colorful Flowers Will the temperature of water affect the rate water moves up the stem of a carnation?

3. Shine the Light on Me How does light affect plant growth?

4. Leavin' Those Leaves What is released from leaves during photosynthesis? Can we see what leaves a plant's leaves during photosynthesis?

4. Pressure

1. Defying Gravity? How can you get water to stay in a glass when it is upside down?

2. Squeezing an Egg? Can an egg squeeze into a milk jug without breaking?