

# SPRING BREAK SCIENCE PROGRAM



Grain Valley Parks and Recreation is excited to announce we are hosting a Mad Science Spring Break Program! Kids will be participating in a wide range of safe and engaging hands-on activities led by an instructor with a flair for science.

## AGES

Grades K - 6

## WHEN:

March 18th - 21st  
Monday - Thursday  
10AM - 12PM

## WHERE

Grain Valley  
Community Center

## FEE

\$120.00  
Per Participant



Registration deadline  
March 11, 2024

**GRAIN VALLEY**  
MISSOURI  
PARKS AND RECREATION

## COVERING CONTENT LISTED BELOW

- |                           |   |
|---------------------------|---|
| Harnessing Heat           | The class will learn and observe the basic properties of heat by play-acting the role of atoms, then heat things up in a sand-shaking session. The children will take part in a sense-confusing temperature test, experiment with heat transfers, and get hands-on building thermometers. |
| Lights, Color, Action     | What do fireworks and astronomy have in common? Light! Explore the color spectrum with prisms and diffraction glasses, blend colors to produce white light and split white light into colors. See how pigments blend differently from light, and how they are combined to produce colors. |
| Magnetic Magic (ICW& ASP) | Students will examine magnets up-close and at work, observing their behavior and their uses. Students will be involved in activities which will let them see and explore the relative strength and properties of magnetic fields, and introduced to electromagnets.                       |
| Mission Nutrition         | Learn about nutrition and fitness while focusing on a healthy diet and lifestyle. Stimulate enthusiasm for personal health and cultivate a healthy attitude toward nutrition and fitness.   |
| Optical Illusions         | Students explore the physics of optical illusions, and how our eyes can trick our brains. They will manipulate flexible mirrors, explore the world with inverted vision, try out classic illusions in class, and create their own illusions   |
| Sonic Sounds              | Demonstrations illustrate the relationship of vibration to sound and the properties and transmission of sound waves through various mediums. Students produce sounds from a variety of materials, and change their voice waves using a digital voice machine.                             |
| Tantalizing Taste         | How do we taste things? Do things taste the same to everyone? Students get hands-on with magnifiers, model tongues and mirrors to see how their sense of taste works and participate in a classic taste test.   |
| Watts-Up                  | Basic properties of static electricity are demonstrated using a Van de Graaff generator, to light up a fluorescent tube, the process of grounding, and how to make a feather fly! To top it off, we will take volunteers with a good hair day and turn it into a bad hair day!            |

**A SCIENCE-THEMED TAKE-HOME TOY IS PROVIDED AFTER EACH LESSON TO EXTEND THE LEARNING EXPERIENCE!**