

Science Magic

Overview: Sometimes science demonstrations can seem like magic. The difference is scientists love to explain how things work! Your educator will perform several demonstrations that may first seem like magic. Then with the help of observations from the audience and the scientific method, we will figure out the science behind the trick and learn what is really happening. The demonstration topics include chemical reactions, physical change/mixtures, forces and motion, and properties of water and specific heat.

Target Grade Levels: 1st - 5th

Objectives:

Students will understand:

- The scientific method and how to use it to increase their understanding of phenomena

Standards Covered:

South Carolina Standards Science and Engineering Practices:
K-5 S.1: The student will use the science and engineering practices, including the processes and skills of scientific inquiry, to develop understandings of science content.

While many standards are touched on in this program, the main topic which applies across all grades is using the scientific method to understand the mysteries of the world around us.

Teaching Guide: Science Magic



Thank you for choosing our Science Magic program! During this program students will join Roper Mountain Science Center's education outreach coordinator for a fun and engaging program about how science can sometimes seem like magic. Participants will learn to use the scientific method to figure out the science that explains some impossible seeming phenomena.

Pre Activities:

- Watch a magic show
- Vocabulary - Variable, experiment, observation, hypothesis

Instructions for Day of the Program:

- Arrange students so that they may see the screen
- If desired, provide paper for students to take notes during the program

Post Activities

- Try some of the experiments discussed during the program that are safe to try at home (with permission)
 - cut open a diaper and collect the powder inside to mix with water and make gel
 - Try Snatch the tablecloth with your own materials at home. Try out different tablecloths, stacking cups or buckets different ways, and putting weight in different places