



www.mcwane.org

OUTREACH: SCIENCE TO-GO

Can't come to us? Then we'll bring our Adventures in Science to you! McWane Science Center's Outreach specialists offer a variety of exciting, standards-based, hands-on science activities and presentations for school assemblies and classroom programs.

Please register 30 days in advance.

PRICING:

- 1 OR 2 CLASSROOM PROGRAMS: \$85; maximum 30 students
- EACH ADDITIONAL CLASSROOM PROGRAM: \$75; maximum 30 students
- 1 ASSEMBLY PROGRAM: \$205; maximum 150 students
- EACH ADDITIONAL ASSEMBLY PROGRAM: \$155; maximum 150 students
- LIBRARIES/COMMUNITY PROGRAMS: \$85; groups of 30 or less
- LIBRARIES/COMMUNITY PROGRAMS: \$105; groups of 30 or more
- Sixth program is FREE when you reserve five additional programs.
- Mileage charge of 40 cents/mile applies to ALL Alabama counties except Jefferson or Shelby. Schools outside of Alabama, please call

QUESTIONS: (205) 714-8321 outreach@mcwane.org

RESERVATIONS: (205) 714-8467 or 877-4-mcwane

Light Bright!

DISCIPLINE: Physical Science

GRADES: Pre-K-K

PROGRAM: classroom

Light and shadow, heat and chill. Young scientists will investigate the phenomenon of our sun's effect on the seasons, weather, and life on Earth.

Students will also experiment with the effects of illumination on shadows and become artists of light.

ACOSS: K: 2, 9, 10

Science Tales

DISCIPLINES: Life Science, Literature

GRADES: Pre-K-K

PROGRAM: classroom

Budding scholars enter the world of science through beloved children's literature, brought to life through songs, games and fun experiments.

ACOSS: K: 3, 6, 7

Liquid Lab

DISCIPLINE: Physical Science

Grades: K-1

PROGRAM: classroom

What is a liquid? How does it differ from a solid or gas? Students explore the properties of liquids, including cohesion and density.

ACOSS: K: 1; Grade 1: 1, 2

Fantastic 4 Dinosaurs

DISCIPLINE: Earth and Space Science

GRADES: K-1

PROGRAM: classroom

Learn about these mighty creatures of the Mesozoic: Tyrannosaurus Rex, Apatosaurus, Triceratops and Stegosaurus.

ACOSS: K: 6; Grade 1: 1, 4, 6

Marvels of Magnets

DISCIPLINE: Physical Science

GRADES: K-1

PROGRAM: classroom

What's the big attraction to magnets? Why are some magnets stronger than others? Learn about electromagnets and more!

ACOSS: K: 5; Grade 1: 2

Stardome: Constellations

DISCIPLINE: Earth and Space Science

GRADES: K-8

PROGRAM: classroom

The entire class will crawl into our inflatable indoor planetarium to learn about the solar system and constellations.

ACOSS: Grade 1: 11; Grade 2: 11; Grade 3: 14; Grade 4: 8, 9, 10; Grade 5: 11; Grade 6: 9, 10, 11

Three-Ring Science Show

DISCIPLINES: Physical Science, Chemistry

GRADES: K-8

PROGRAM: assembly or classroom

Step right up for our science circus assembly show! Explore the wonders of liquid nitrogen, the power of explosions and the shocking world of electricity.

ACOSS: K: 1; Grade 1: 2, 3; Grade 2: 1; Grade 3: 2; Grade 4: 1; Grade 5: 1, 4; Grade 8: 7, 10, 11

Amazing Animals

DISCIPLINE: Life Science

GRADES: K-8

PROGRAM: classroom

Invite our awesome animals into your classroom. Their unique habits and characteristics will captivate students.

ACOSS: K: 6, 7; Grade 1: 1, 4; Grade 2: 6; Grade 3: 8; Grade 4: 5, 6; Grade 5: 9; Grade 7: 1, 6

Body Works

DISCIPLINE: Life Science

GRADES: 1-2

PROGRAM: classroom

What happens inside your body when you do a physical activity? Discover how your heart, lungs and blood keep your body working and what role a balanced diet plays in all this.

ACOSS: Grade 1: 5

African-Americans in Science

DISCIPLINE: Physical Science

GRADES: 2-5

PROGRAM: classroom

Chemistry, biology, physics, geography and more! Learn about the contributions of African American scientists to modern science and innovation.

ACOSS: Grade 2: 1; Grade 3: 2, 8; Grade 4: 3, 5, 6; Grade 5: 1, 4, 8

MORE OUTREACH: SCIENCE TO-GO

Enlightening Electricity

DISCIPLINE: Physical Science

GRADES: 2–6

PROGRAM: assembly or classroom

What's the difference between a conductor and an insulator? How does a circuit work? Students will learn the difference between static and current electricity and so much more.

ACOSS: Grade 4: 1

Razzle Dazzle Chemistry

DISCIPLINE: Physical Science

GRADES: 2–6

PROGRAM: assembly or classroom

Explosions! Brilliant bubbles! Fascinating experiments teach students physical and chemical changes in matter.

ACOSS: Grade 2: 1; Grade 3: 2; Grade 5: 1, 3, 4

Science of Magic

DISCIPLINE: Physical Science

GRADES: 3–6

PROGRAM: classroom

Abracadabra, hocus pocus, poof—explore the science behind magic. Wave your wand and learn tricks of your own to impress and surprise your friends. No rabbit required.

ACOSS: Grade 3: 1, 2; Grade 5: 1, 3

Science With a Bang!

DISCIPLINE: Physical Science

GRADES: 3–8

PROGRAM: Assembly OR Classroom

Heat up the classroom as we explore the science of combustion. Students get fired up about science with a series of experiments that demonstrate the differences between explosions and combustion, the elements of the combustion triangle and some unexpected materials that make good fuels.

ACOSS: Grade 3: 2 Grade 5: 1, 4 Grade 8: 7

Really Cool Science

DISCIPLINE: Physical Science

GRADES: 3–8

PROGRAM: Assembly OR Classroom

Chill out with some really cool solids, liquids and gases, and witness amazing transformations as objects are subjected to temperature extremes.

ACOSS: Grade 3: 2 Grade 5: 4 Grade 8: 7

A World in Motion

DISCIPLINE: Life Science

GRADES 4–5 = Jet Toy Activity

GRADES 6–8 = Glider Activity

PROGRAM: classroom

LENGTH: 1 HOUR

Designed by the Society of Automotive Engineers (SAE) the World In Motion (AWIM) is an innovative, hands-on physical science activity with fun and challenge as the two main ingredients. AWIM makes math and science exciting by bringing authentic engineering design challenges to your classroom.

ACOSS: Grade 4: 4; Grade 5: 4;

Grade 8: 1, 7, 8, 10

Rocks & Minerals

DISCIPLINE: Earth and Space Science

GRADES: 4–8

PROGRAM: classroom

Smell, scratch and even taste! Aspiring geologists will perform various tests in order to identify minerals and classify rocks.

ACOSS: Grade 6: 2

Environmental Explorations

DISCIPLINE: Life Science

GRADES: 1–2

PROGRAM: classroom

Explore how people use the world around them and learn how to help protect the environments that we share with other living things!

ACOSS: Grade 1: 4; Grade 2: 5, 6

Plant Power

DISCIPLINES: Physical Science, Life Science

GRADES: 3–5

PROGRAM: classroom

Explore the role of plants in our lives and in the environment and learn how we can treat them right!

ACOSS: Grade 3: 3, 7, 10, 13; Grade 4: 5

Grade 5: 7, 9, 10

Look for the Outreach Van to drive your way.
It was donated by the Birmingham Auto Dealers Association (BADA)

Biome Breakdown

DISCIPLINES: Earth and Space Science, Life Science

GRADES: 6–8

PROGRAM: classroom

Why are some areas deserts and others rainforests? Discover the science behind biomes, and explore the features of our own place on the globe!

ACOSS: Grade 6: 3, 7; Grade 7: 1, 5–7

Detective H2O

DISCIPLINES: Biology, AquaScience, Environmental Science

GRADES: 9–12

PROGRAM: classroom

The water's just fine! Or is it? Water can hold many secrets. Use scientific tests to look for clues about our liquid environment's health!
ACOSS: Biology: 14, 15;
AquaScience: 3, 4, 5;
Environmental Science: 1, 5, 6, 8, 12



NEW

Family Science Night

Promote parent participation and stimulate young minds when your school hosts a McWane Science Center Family Science Night. These exciting and educational programs are perfect as a stand-alone event or tied in with a parent PTA or PTO

night. Family Science Night includes two hours of hands-on science that's fun for kids as well as parents and teachers.

PROGRAM OPTIONS: Science Festival,

Crime Scene Investigations, Environmental Explorations, Aquatic Adventures or Space Exploration.

GRADES: K–2 or 3–5

CAPACITY: 200

FEE: \$400

REQUIREMENTS: 15–20 adult volunteers to help facilitate the activities. A required training for these volunteers will be held 45 minutes prior to the event.

Please call (205) 714-8467 to reserve your Family Science Night, or contact (205) 714-8321 or e-mail outreach@mcwane.org for more information.