STEM
IN-SCHOOL FIELD TRIP

presents

Electronics Laboratory (In-School Fieldtrip)
for
5th & 6th Grade

Introduction to Radios

Students will

- Learn about radios and how they work

- Investigate static electricity, electrical energy, electromagnetism and how they function in the AM radios

- Build a working AM radios.

- Investigate the difference between AM and FM radios.

- Work in teams to build working FM radios.

Alignment with County Curriculum for 5th & 6thGrade

- Science Technology and Engineering:
  - Physical Sciences: electrical energy, magnetic forces, electromagnetism, waves.
  - Engineering and Technology: History and Impact of technology
- Collaboration
  - Work in teams to build a radio – sharing responsibility and assigning tasks.

Cost: $15/Student
Contact:
stemafterschool@gmail.com | 202-460-4250 | stemafterschoolacademy.com

Explore Robotics & Coding: Introduction to Graphical Programming with BlocklyJoin Us for an Exciting In-School Field Trip and Explore the World of Programming!

Discover the exciting world of graphical programming using Blockly! In this engaging and interactive session, students will learn the basics of programming by guiding a robot through various navigation challenges. This is a fantastic opportunity for young minds to develop problem-solving skills, creativity, and a love for technology.

What to Expect:
- Hands-On Learning: Students will use Blockly, a visual programming language, to control a robot.
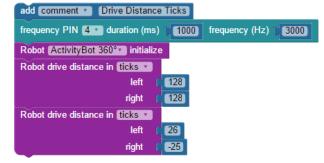- Fun Challenges: Navigate the robot through mazes, around obstacles, and more!
- No Experience Needed: Perfect for beginners, with easy-to-understand instructions.

Why Participate?
- Enhance Critical Thinking: Develop logic and problem-solving skills.
- Boost Creativity: Learn how to create and execute a plan.
- Inspire Future Interests: A great introduction to the world of robotics and programming.

Duration: 1 Hour Per Session

Cost: $18/student