



DeKalb County
School District
Fernbank Science Center

Title: ROBOTS: THE FUTURE AND BEYOND (4530)
Level: 5th
Location: Local School

Type: Outreach
Length: 60 minutes
Limit: One class/period

Program Description

Robots are increasingly used in our modern world to solve problems. This program is intended to introduce the basics of robot programming procedures and scientific method to solve simple problems. In this program, 5th grade students will experience the world of robots. Groups of 4 students will manipulate the Spark+ Robot, program it to do a variety of specific tasks, and use problem solving techniques to make the Spark+ accomplish a set task.

Standards

- S5P2. Obtain, evaluate, and communicate information to investigate electricity. .
S5P3. Obtain, evaluate, and communicate information about magnetism and its relationship to electricity.

Vocabulary

android	anemometer	mobility
Artificial intelligence	image processors	sound
computer programming	anemometer	gyroscope
coding	motor	sensors
wheels		orbit wheels

Pre-Visit Activities

Introduce the subject to be discussed by the Fernbank instructor, and solicit written questions from the students.

Post-Visit Activity

The Lighting Lab in the Sphero education section invites interested students, teachers and families to participate in numerous activities involving math, science, and programming. These phenomenal hands-on activities are found at the following website <http://www.sphero.com/education>

Resources:

Note: