



Fernbank Science Center

Title: DRONES 101 (4508)
Level: 5th
Location: Fernbank Science Center

Type: Single Visit
Length: 60 minutes
Limit: One class/period

Program Description

The future of flying is all about drones. Whether it is delivering packages, film 4K panoramic video, dust crops, get you to work, fight fires Drones are increasingly used in our modern world. This program is intended to introduce the basics of how drones operate and the science behind drones. In this program, 5th grade students will work in groups of 4 and fly drones manually. Students will also learn to fly drones by writing lines of computer code.

Standards

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

Vocabulary

quadcopter	anemometer	drag
Artificial intelligence	octocopter	lift
computer programming	anemometer	gyroscope
coding	UAV	Autonomous

Pre-Visit Activities

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

Post-Visit Activity

The drone activities below allow 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

<https://edu.parrot.com/>

<https://www.tynker.com/learn-to-code/code-this-drone/>

<https://itunes.apple.com/us/app/droneblocks/id1045826508?mt=8>

<https://learn.droneblocks.io/courses>

Resources:

Note: