Welcome Academy Students & Families!
Bienvenidos!
Dr. Katie Mills
USC Viterbi School of Engineering
VAST: Viterbi Adopt-a-School, Adopt-a-Teacher

STEM = Science, Technology, Engineering, Math
RCA Schools

32nd Street USC Performing Arts Magnet
Dr. John Purcell
(Ms. Nelly Cristales)

Dr. Theodore T. Alexander, Jr. Science Center School
Ms. Antoinette Pippin

John W. Mack Elementary School
Ms. Jakeisha Gibson
(Sabrina Gibson)
Donations by USC faculty, staff, and students to make the neighborhoods we share healthy, happy, and safe places for all of us to live, study, and work.
Why Robotics & Coding?

Coding = tells a computer or robot what to do

Coding = computer science = college and good careers

Robotics = robots = fun
Why Robotics & Coding?

Coding is the new “second language.”
These are our computers for coding.
This is what the coding looks like that the Academy students will learn how to program to make the robots move & dance.
Scratch Lab #1 - 15 minutes

What can you make with these 8 blocks?

- move 10 steps
- change color effect by 25
- turn 15 degrees
- play note 60 for 0.5 beats
- when Sprite1 clicked
- play drum 48 for 0.2 beats
- repeat 10
- when space key pressed

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What can you make with these 8 blocks?

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- play drum 48 for 0.2 beats
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- when space key pressed
Here is the robot – it’s called a Dash. Coding on the computer tells it to move, dance or make noise.
The character of people who CODE:

Collaborative
Open-minded
Dedicated
Enthusiastic
32nd St.
Mondays 2:35 – 3:35
Mack Elementary
Wednesdays 2:35 – 3:30
Alexander Science Center School
Wednesdays 2:45 – 3:45

Holidays:
Week of Veterans’ Day 11/11
Thanksgiving Week
Last day 11/27
USC Code Dojo 12/8 (optional)
32nd St.
Mondays 2:35 – 3:35
Mack Elementary
Wednesdays 2:35 – 3:30
Alexander Science Center School
Wednesdays 2:45 – 3:45

Parents
Thanks for your help!
Robotics & Coding Academy Structure

RCA leadership team
- Dr. Katie Mills
- Caitlyn Clabaugh

Classroom leads
- Teacher (32nd St., Mack, Alexander)
- USC Lead Mentor

Group leaders
- USC Mentor 1
- USC Mentor 2
- USC Mentor 3
Create Smart Robots to Interact with the World!

5th graders can bring robots to life through coding! Young, curious minds can create smart robots that explore and discover the world around them. The USC Viterbi Robotics & Coding Academy for 5th graders at 32nd St. USC Magnet School, Dr. Theodore T. Alexander Jr. Science Center School, and John W. Mack Elementary School helps develop students’ technology and engineering skills through hands-on learning with robots, mentored by USC students. This free, after-school program is possible thanks to the generous support of the USC Good Neighbors Campaign, an employee giving program that supports university-community partnerships. It is organized by USC Viterbi School of Engineering’s VAST (Viterbi Adopt-a-School, Adopt-a-Teacher). Coding a robot to interact with the real-world is an empowering experience that may lead 5th graders to future careers in STEM.

For more information about USC Viterbi’s Robotic and Coding Academy, click here.

Resources
Calendar

Spanish version of the website available.

Made possible by the USC Good Neighbors Campaign.

http://www.viterbi.usc.edu/k-12/coding/robotics-coding-academy/
Opportunities for Parents

Do you want to learn to code along with your child? There are resources online.

Do you want to learn how to use a computer and then have your own computer? USC Community Computing Center has a class for neighborhood families – information will be posted on our Website.
Image Release Form

We would like to be able to take photos during the Robotics and Coding Academy.

I hereby irrevocably consent to and authorize the use by the University of Southern California a, California non-profit corporation (“USC”), of any and all photographs, video, voice recordings, or other media taken of me including derivative works thereof (collectively, the “Images”)…

I hereby waive any right that I may have to inspect and/or approve the use of the Images or any reproductions thereof, by USC.

Download from http://viterbi.usc.edu/k-12/coding/robotics-coding-academy/resources.htm
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