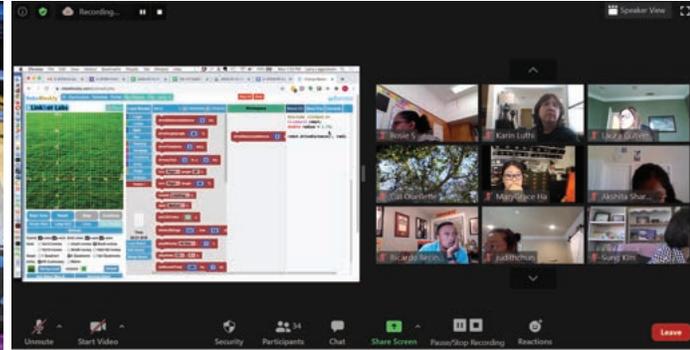# UC Davis Center for Integrated Computing and STEM Education (C-STEM)

Workshop for K-6 Teachers on Distance Learning Math, CS, Science and Makerspace with Coding and Hardware/Virtual Robots

"I like how I can use the curriculum to integrate coding and hands on math to bring math alive for the students...Fun, exciting, and lots of opportunities for kids to learn from their mistakes."

Catherine Ouellette, Kindergarten Teacher
Hacienda La Puente USD

"Roboblockly is a very user friendly program that I should be able to use with my 3rd grade students from day 1. I'm not very tech savvy, but I think I should be able to do this. I love how I can integrate math and music and art with this."

Donna McInnes, 3rd Grade Teacher
Vintage Magnet Elementary, LAUSD

Engaged Distance Learning

The exciting hands-on computing and robotics classroom activities help students make meaningful connections between abstract math concepts and real-life applications.

Life Skills

Personalized, collaborative learning, and teamwork build students' confidence in learning by developing their abilities to think critically through real-world problem solving.

Career and College Ready

The rigorous curriculum teaches students real-world problem solving using the most widely used programming language and maker technology in colleges and industry for the integrated learning of math with computational thinking, science, engineering, and art.

UC Davis C-STEM Center

Engaging students through integrated learning of math and science with hands-on coding, making, and robotics. The C-STEM Center works to empower educators to confidently integrate technology into their classroom while maintaining focus on the objectives and standards that they currently teach. Through the C-STEM program and curriculum, teachers use technology to extend learning as well as provide alternative experiences for students who do not flourish in a regular textbook classroom. Technology is used as a tool to help students expand their critical thinking skills and their ability to apply STEM concepts to real-world situations.

——— Curriculum ———

Computer Science with Robotics and **Mathematics with Robotics:**
http://www.roboblockly.com/curriculum

C-STEM Math-ICT Curriculum:
https://c-stem.ucdavis.edu/curriculum/

Three Sessions of 2:30-Hour Professional Development for K-6 Teachers

- **Session 1:** **9/2/2020, 12:30-3pm** Introduction to Computer Science with Robotics and Mathematics with Robotics for K-6 for Distance Learning

- **Session 2:** **9/9/2020, 10:00am-12:30pm** Continued the topics in Session 1, and RoboBlockly Class Management System for Distance Learning

- **Session 3:** **9/16/2020, 12:30-3pm** Follow-Up and Introducton to Makerspace on Building Your Own Robots and Arduino with Electronics

Participants

- All teachers in Pine Grove STEM Magnet Elementary School
- Two teachers from each of other elementary schools in ACUSD
- School Administrators from each elementary schools in ACUSD

UCDAVIS
C–STEM Center

info@c-stem.ucdavis.edu
http://c-stem.ucdavis.edu

@ucdcstem

ACUSD Contact:
Tim Keys
tkeys@acusd.org
Pine Grove STEM Magnet Elementary School
Amador County Unified School District