

I. Title

Teaching Coding across All Core Subjects

II. Curriculum Topics, School Name, Number of Educators, Grade Levels

Thirty-Nine Educators at Melva Davis Academy of Excellence In Adelanto Elementary School District located in Victorville, Ca will be part of this professional development activity. The educators to be included currently teach sixth through eighth grades, with varying primary classes ranging from English Language Arts, History, and Foreign Language to Math, Science, Computers, and Music. Melva Davis Academy is a Title I school with 73% of students eligible for free or reduced lunch, located in the High Desert region of San Bernardino county, near the Los Angeles County Line. Information made available via the SARC forms on the school's website provide the enrollment of 830 students, however the last year recorded was 2017-2018. After discussing the total number of enrolled students with the school site office administrator, the current enrollment was closer to 845. The demographics as made available via the SARC form are visible in the figure to the right.

Enrollment by Student Group	
2017-18	
	Percentage
Black or African American	16.1
American Indian or Alaska Native	0.2
Asian	0.8
Filipino	1.0
Hispanic or Latino	70.1
Native Hawaiian or Pacific Islander	1.2
White	6.6
Two or More Races	2.5
EL Students	12.4
Socioeconomically Disadvantaged	84.3
Students with Disabilities	18.6
Foster Youth	0.6

Enrollment Trend by Grade Level		
	2016-17	2017-18
6th	325	286
7th	240	315
8th	141	229
Total	706	830

This professional development activity will focus on the ways in which educators across multiple subjects can link their concepts and require students to present their knowledge through coding using programs like scratch to present their findings. Using Scratch.mit.edu, students can create guided stories in History, English Language Arts, or Science that others can participate in. By requiring students to code their stories, they are learning not only the topic being covered, but also learn a valuable skill in coding.

III. Standards Addressed