

Program Update

Kentucky Board of Education

Dec. 4, 2019

- College Readiness Program (AP)
- Access to Algebra
- Computer Science Initiatives

Mission

To expand student access to and success in rigorous coursework, particularly among populations traditionally underrepresented in these courses, enabling students to pursue advanced college and career opportunities.

College Readiness Program (AP®)

Supports middle and high school pre-AP and AP Math, Science and English courses to increase AP participation and success

Access to Algebra

Supports middle school math teachers in grades 6-8 to increase the number of students on track to meet math benchmark by the time they graduate high school

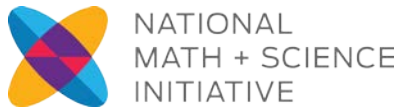
Computer Science (CS) Initiatives

Supports CS education in K-12 classrooms through Code.org training as part of the Kentucky CS Expansion Initiative and manages CSforKY, the state CSforALL campaign



2019-20	Schools	Teachers	Enrollments
College Readiness Program	39 (22+17)*	161	4538
Access to Algebra	27	146	6138
CS Initiatives K-12 Training	34	38	2775
	100	345	13451

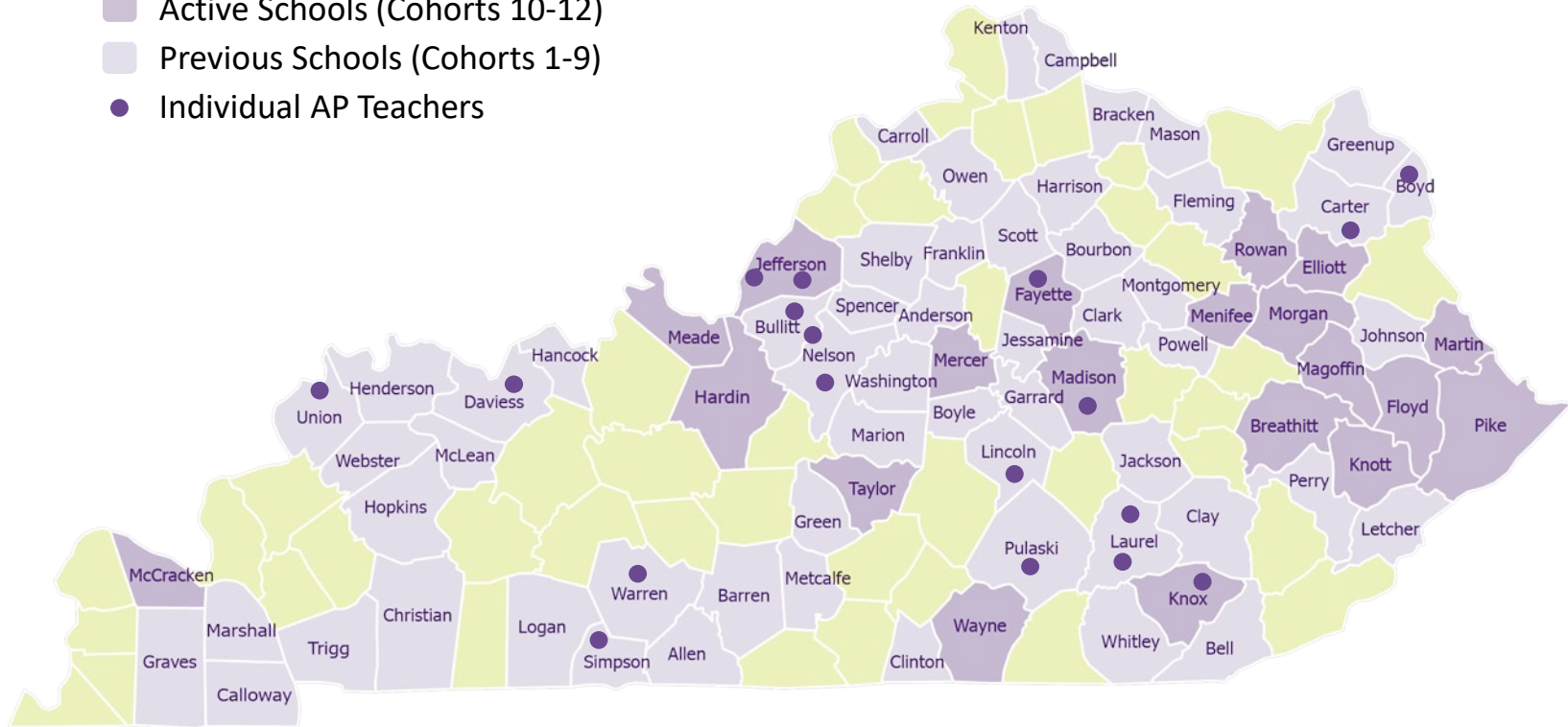
**The number of schools indicated includes traditional active program schools funded for math, science, and English plus schools with individual AP MSE teachers in one or more content areas. All numbers reflect program participation as of Nov. 1, 2019.*

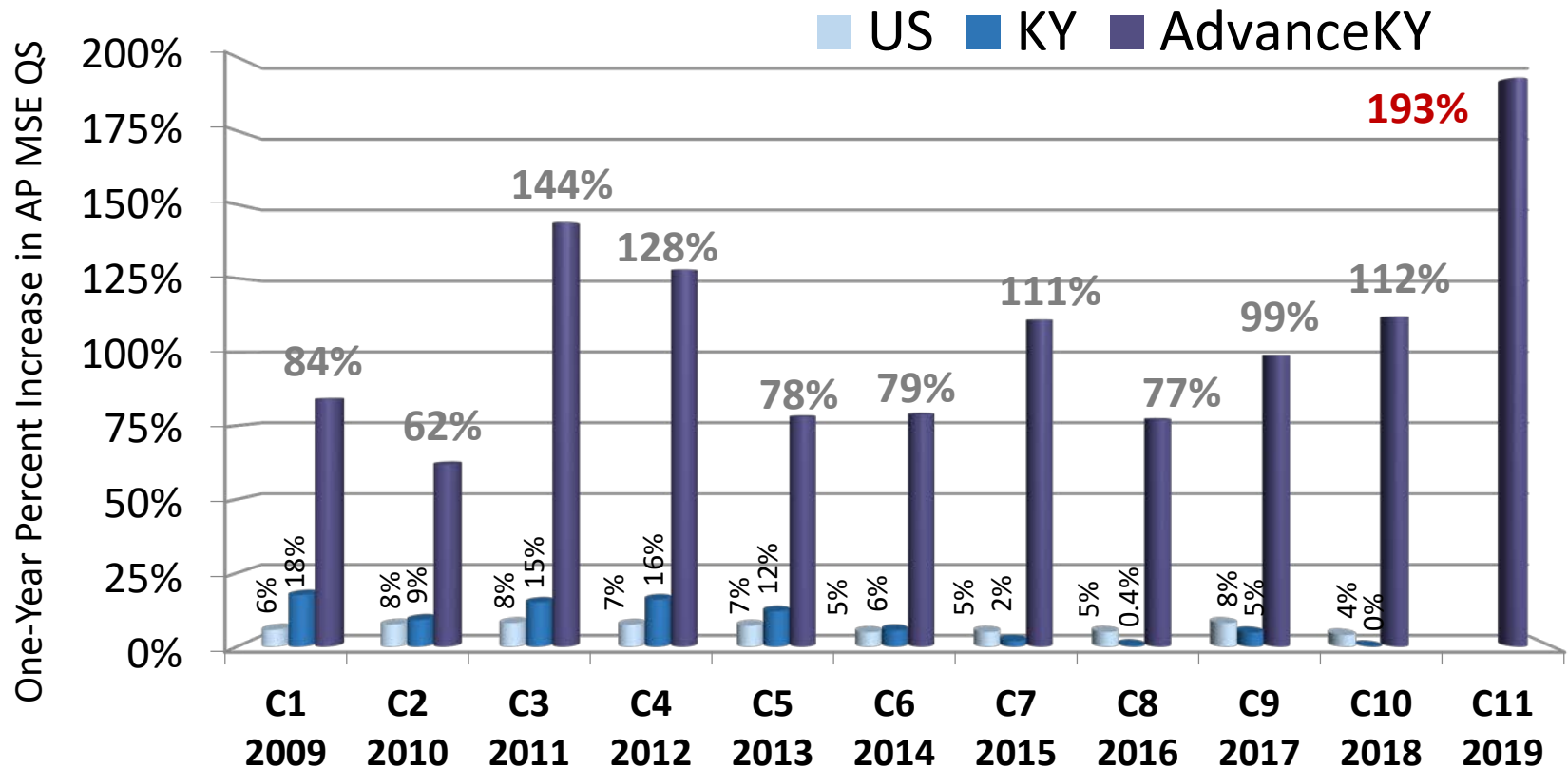


The NMSI College Readiness Program supports improvements in earning qualifying scores (QS) of 3, 4, or 5 (on a 5-point scale) on national AP[®] math, science, and English exams, which may earn college credit.



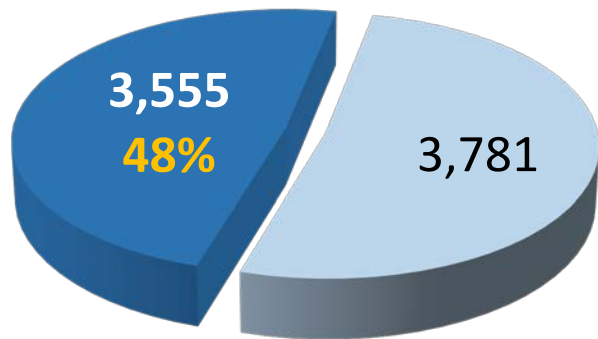
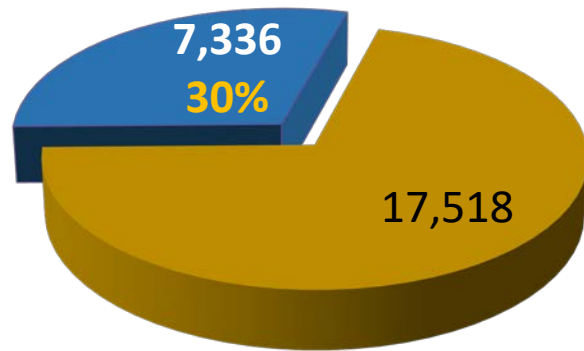
- Active Schools (Cohorts 10-12)
- Previous Schools (Cohorts 1-9)
- Individual AP Teachers





Cohorts 1-7	MSE QS: All Students	MSE QS: FRL Students	MSE QS: Minority Students
Baseline	2513	308	83
Year 3	6387	1255	257
<i>% Change</i>	<i>154.2%</i>	<i>307.5%</i>	<i>209.6%</i>

Control Group



3x Students

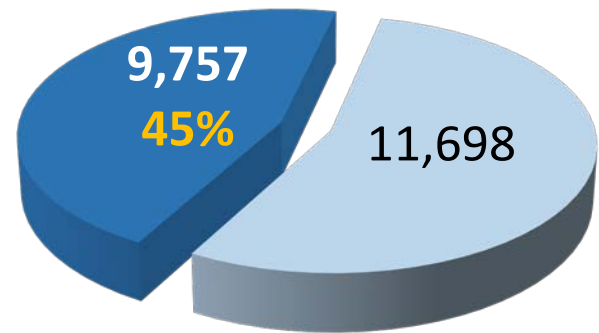
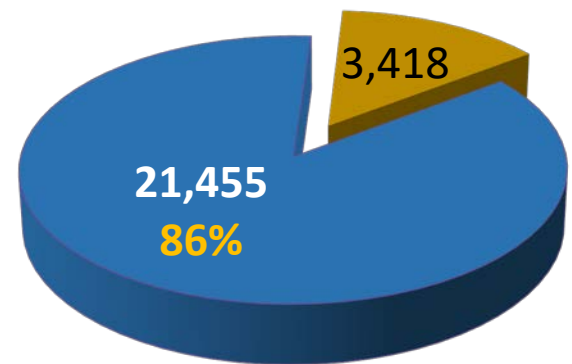
\$10 Million

College
Access

College
Persistence

College
Success

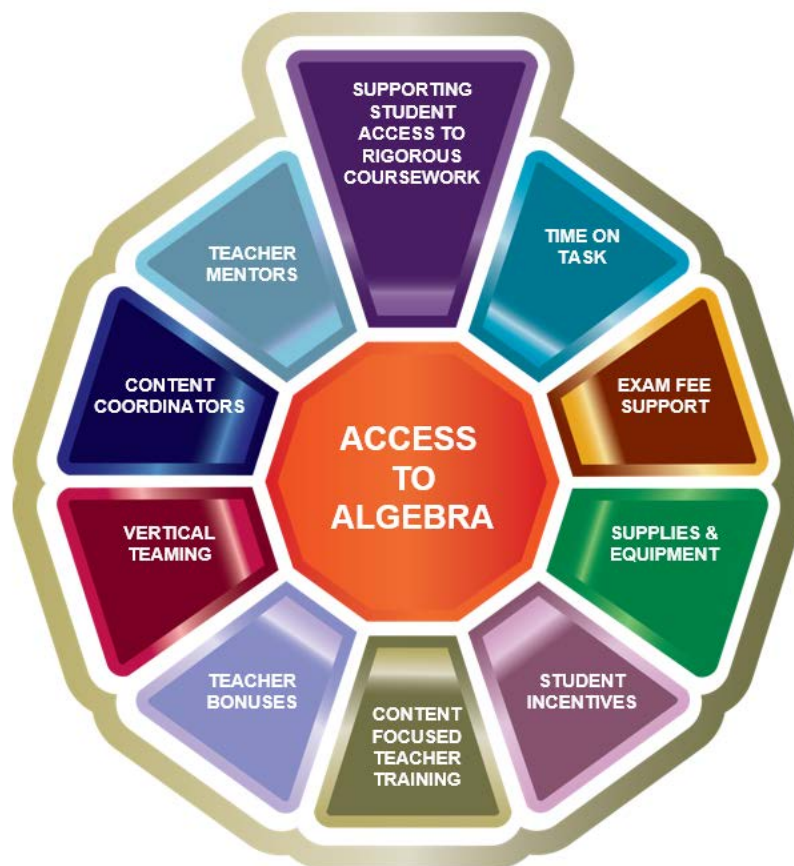
AdvanceKentucky



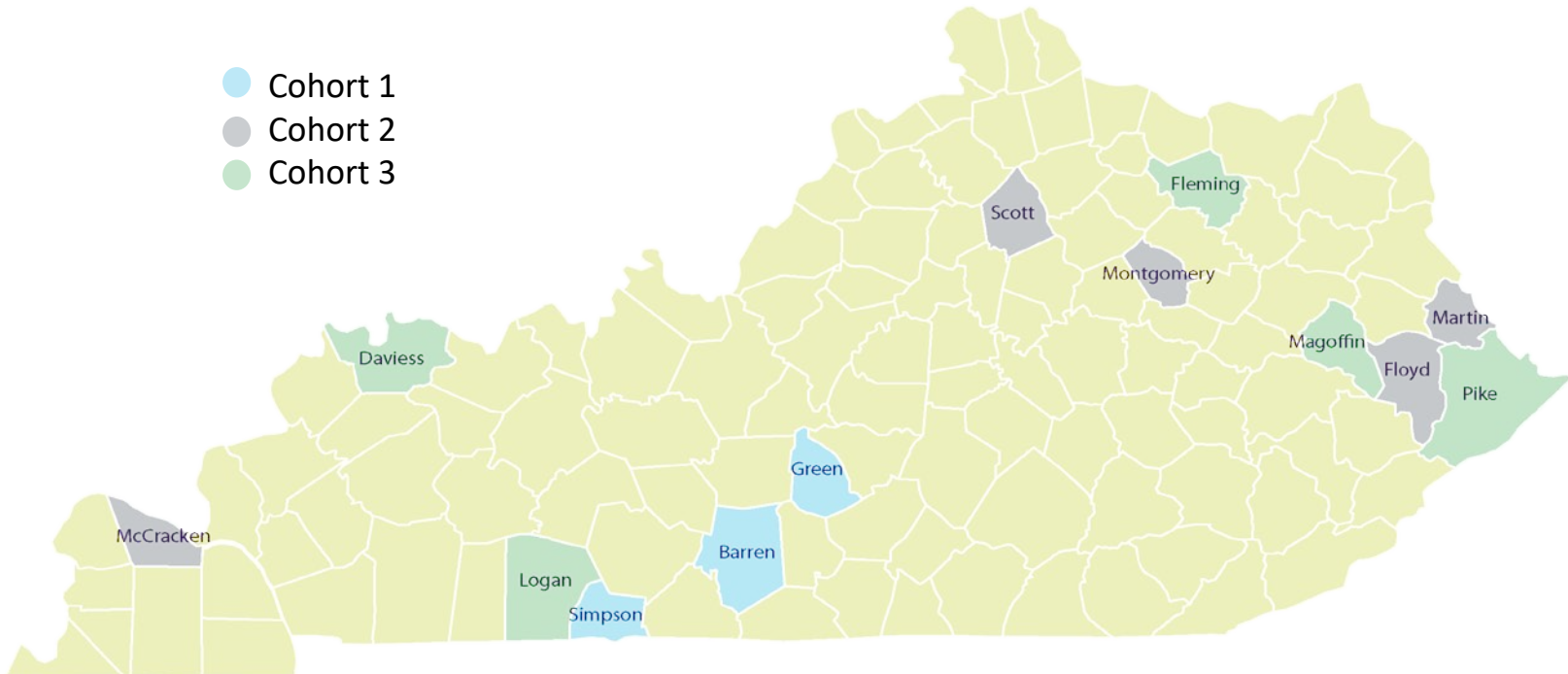
Source: KYSTATS

Access to Algebra seeks to increase the number of students on track to meet college readiness math benchmarks by the time they enter high school, providing increased opportunities for advanced STEM coursework and careers.

The program centers around all students being given access, opportunity, and preparation to succeed in Algebra I.



-  Cohort 1
-  Cohort 2
-  Cohort 3



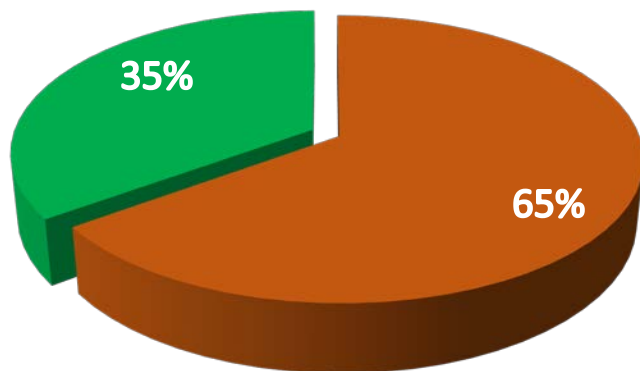
Cohort 1 – 931 students
Cohort 2 – 2,647 students
Cohort 3 - 2,560 students
Total Number of Teachers – 146
Total Number of Students – 6,138

Program Numbers as of Nov. 1, 2019

Access to Algebra

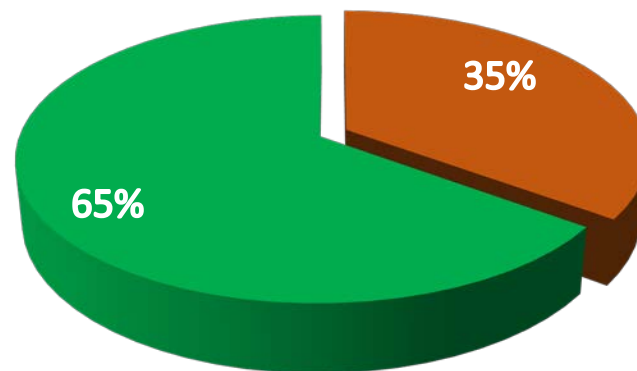
Cohort 1 Longitudinal Performance

2018
Seventh Grade



- More Than One Year Below Grade Level
- On Track or at Grade Level Benchmark

2019
Eighth Grade

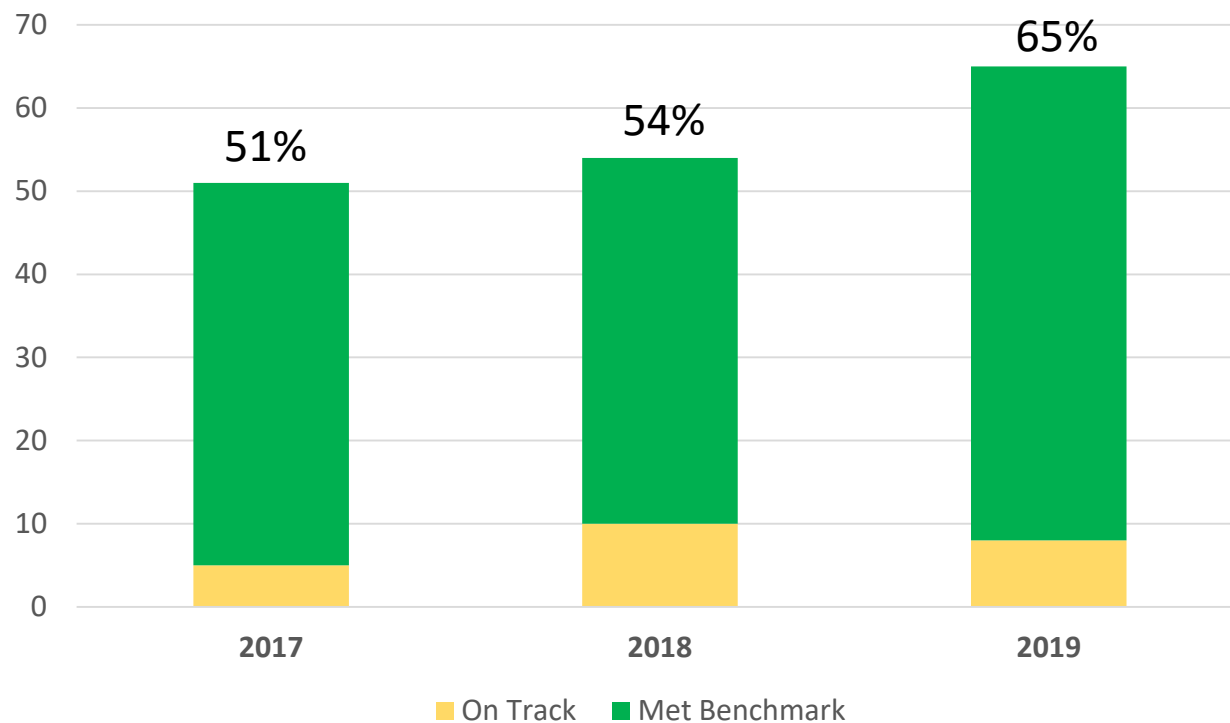


- More Than One Year Below Grade Level
- On Track or At Grade Level Benchmark

Note: Students in seventh grade identified as more than one year below grade level are 30 or more points below eighth grade benchmark.

Source: AdvanceKentucky and College Board

Percentage of Eighth Grade Students on Track to Meet Math Benchmark



Source: AdvanceKentucky and College Board



Supports Grades K-12

- CS Fundamentals (grades K-5)
- CS Discoveries (grades 6-10)
- AP CS Principles (grades 9-12)

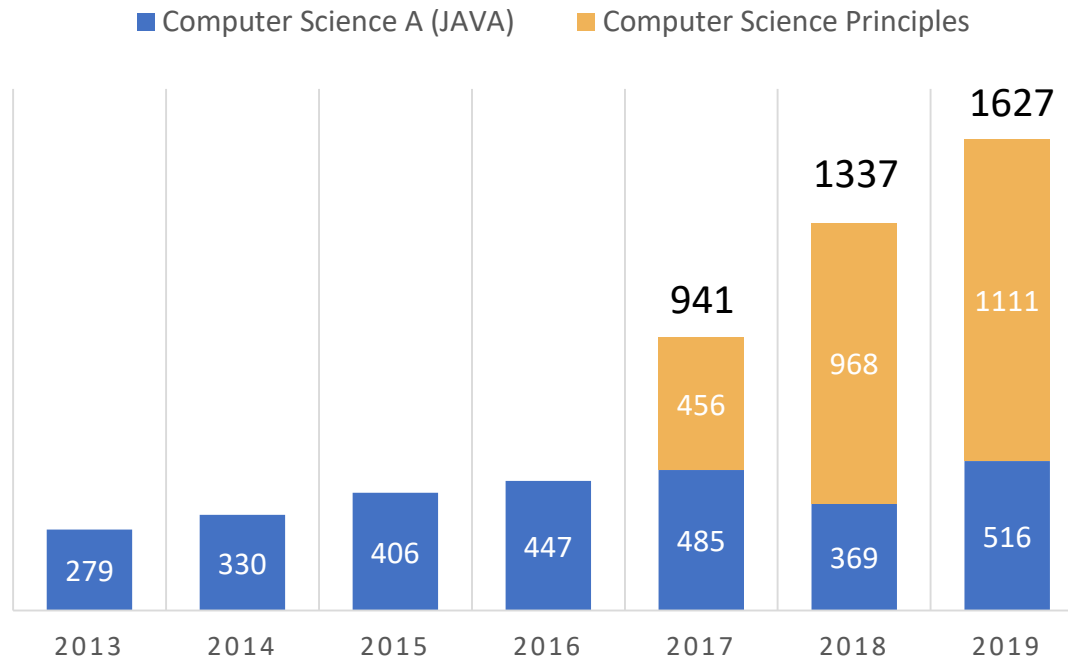
CSD and CSP Training

- Summer Professional Development (5 days)
- 4 one-day workshops during academic year

CSF Training

- 2 One-day Workshops

Number of AP CS Exams (All)

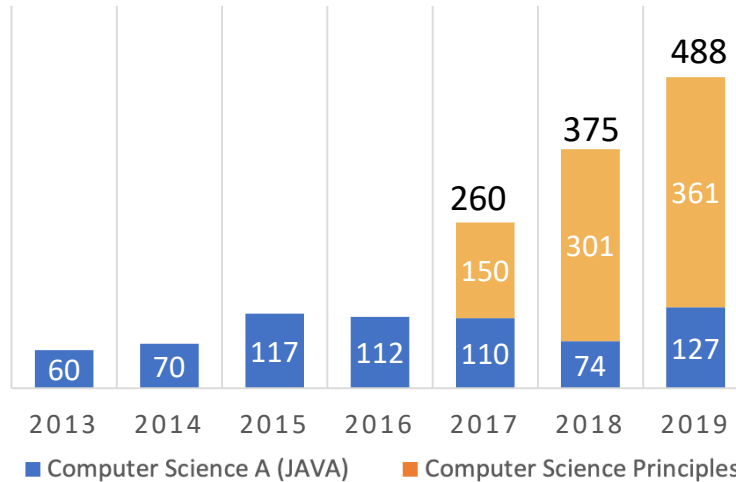


264%
increase in
CS exams
since the
addition of
CS
Principles
(2019)

Source: College Board

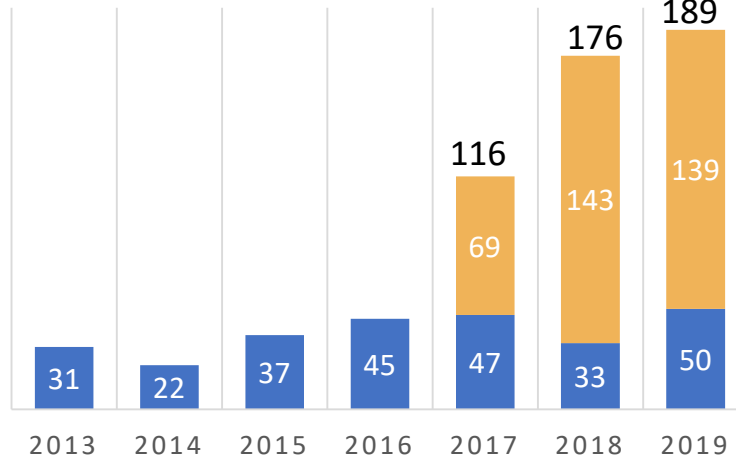
Computer Science Initiatives

Statewide Growth of CS Principles
(Female & Minority)



Number of AP CS Exams (Female)

- **336%** increase since the addition of AP CS Principles
- Female students represented **25%** of all exams in 2016 and **30%** of all exams in 2019



Number of AP CS Exams (Minority)

- **320%** increase since the addition of AP CS Principles
- **Minority students represented 10%** of all exams in 2016 and **12%** of all exams in 2019

Source: College Board