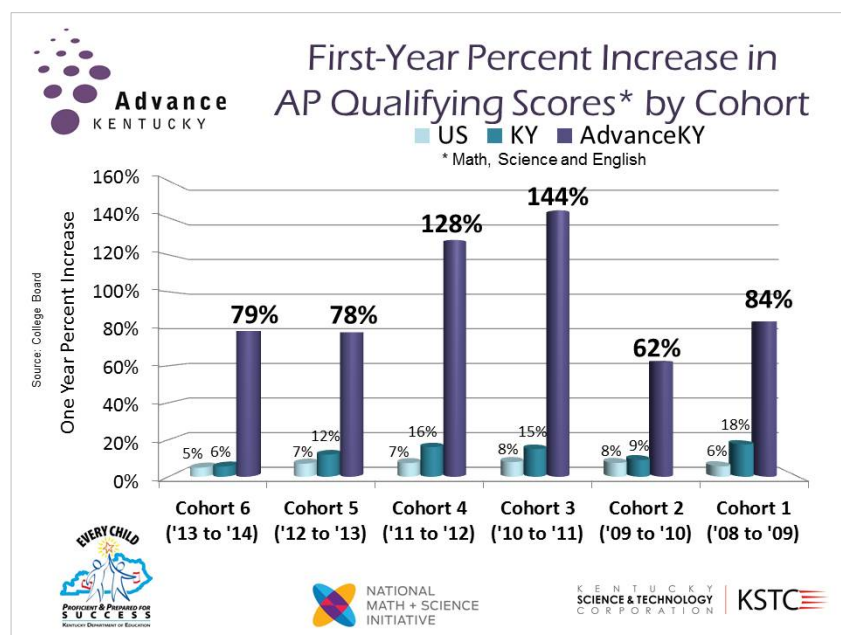
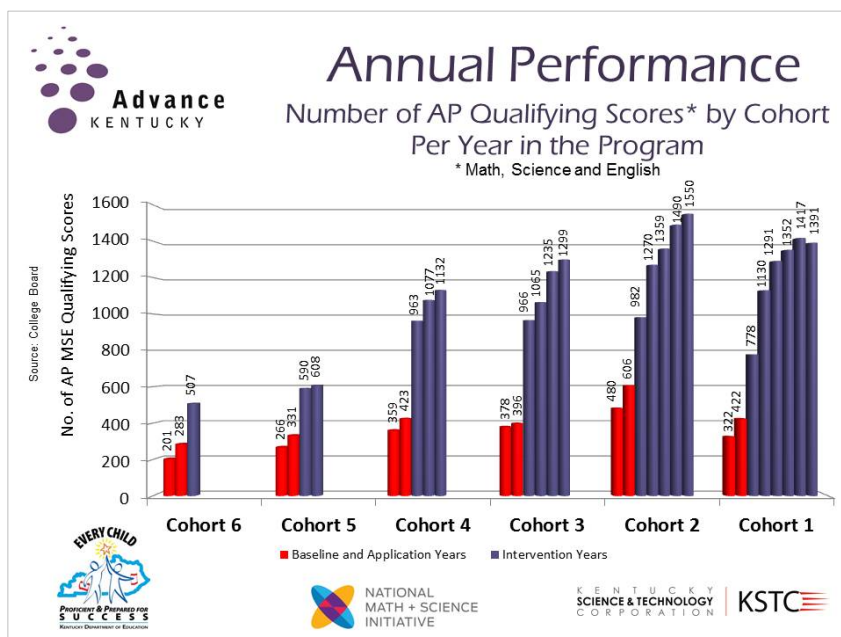


## Kentucky Students Continue to Out-perform National Peers on the 2014 Advanced Placement Exams for Sixth Consecutive Year

Students enrolled in high schools that partner with AdvanceKentucky earned significantly higher scores on the 2014 Advanced Placement (AP)\* exams compared to the national average for the sixth consecutive year.

Since inception, AdvanceKentucky has served **75,000 AP MSE enrollments** taught by **680 AP teachers** from among **92 public high schools** from **69 districts**, and **3,000 Pre-AP MSE teachers** among **85 school districts**. A new group of schools has joined the program each year since inception in 2008-09 with support from the National Math and Science Initiative. (See map on next page.) A typical school has started with a baseline of 23 AP Math, Science, and English (MSE) Qualifying Scores (QS) prior to application and on average increased 139 percent in just one year and 253 percent over the standard three-year period of intervention.

The latest cohort's first-year performance (Cohort 6) was nearly 16 times the national one-year gain. Every cohort of new schools joining AdvanceKentucky has made dramatic improvements the first year of their participation at a range from **eight to 18 times higher** than national gains. These transformative increases, combined with sustained growth year-to-year, has contributed to Kentucky's AP performance in *all subjects* increasing by **115 percent** and by **176 percent** among minority students over six years—ranking among the highest increases in the nation. Minority AP MSE QS increased by **191 percent** and math/science-only scores earned by minority students increased by **121 percent** vs **57 percent** nationwide.



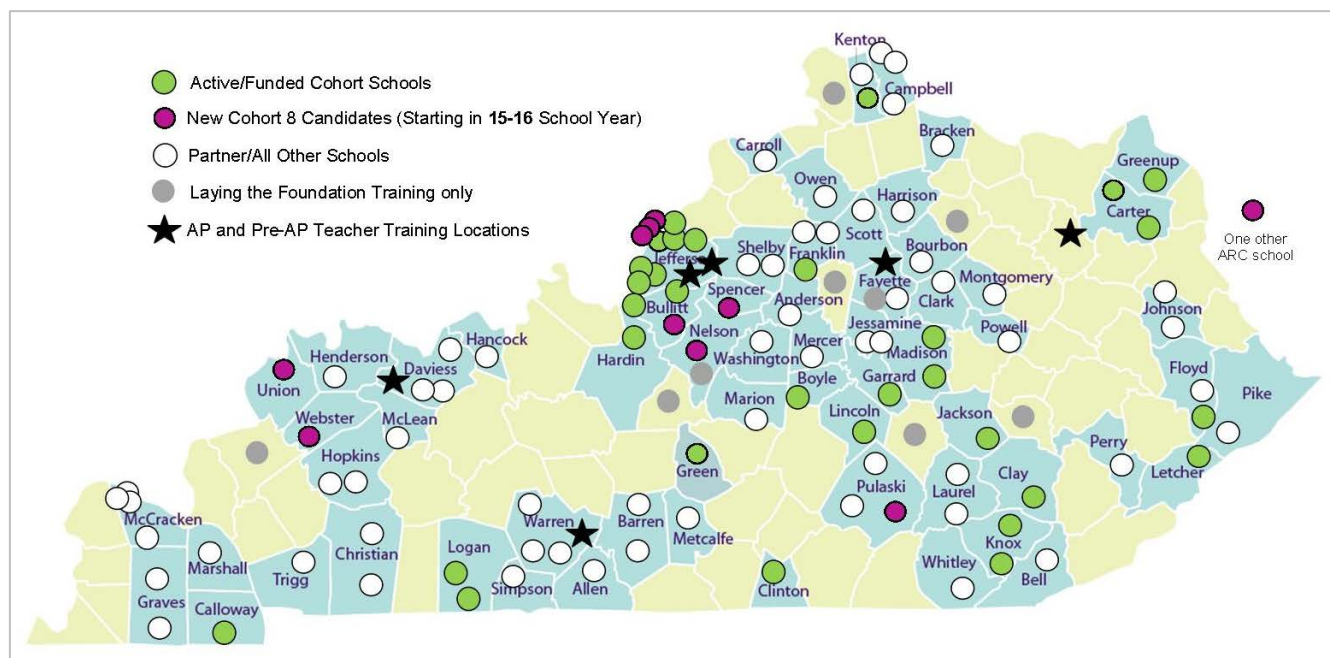
\* Advanced Placement Program, AP, and Pre-AP are registered trademarks of the College Board.

The 2013 review of student performance after high school has revealed tremendous benefit for AdvanceKentucky students enrolled in AP courses, compared to a peer group. Preliminary results indicate that the combined components of the program **significantly decreases the need for college remediation** and **increases the likelihood students are able to persist beyond the first semester of college**. Further, students from AdvanceKentucky classrooms **maintain higher GPAs in college** and are **able to manage larger course loads**. Students better prepared for college when teachers have supports they need for success in a rigorous classroom. **The 2014 longitudinal study is due to be released soon.**

The **Kentucky Coders** campaign to Get One Million Coding was launched to bring attention to the need and accessibility of coding for students of all ages. Kentucky Board of Education Members, Mary Gwen Wheeler and David Karem, along with the COO of Code.org participated in the launch at the 2014 IdeaFestival. Advanced Placement Computer Science is the single outlier with a limited magnitude of participation and glaring gender gap, which are both Kentucky and national issues. The purpose of this new initiative is to raise awareness of coding as a new basic skill to understand how technology is created, not just consumed. **KENTUCKY C/ODERS** ([click to code](#)). **Over 10,000 coding events were registered by the end of National Computer Science Week in December 2014, for which Governor Breshear issued a [proclamation](#).** A workshop on the new AP Computer Science Principles course that is designed to appeal to a broader audience was held in November at the 2014 AdvanceKentucky Fall Forum and opened to all Kentucky educators interested in learning more about this forthcoming course.

AdvanceKentucky is an initiative of Kentucky Science and Technology Corporation, the state's affiliate of the National Math and Science Initiative (NMSI) whose mission is to replicate a proven model for enrolling many more students in AP math, science and English programs to better prepare them for college. Open enrollment strategies dramatically expand preparation for, access to, and success in AP Math, Science, English, particularly among populations traditionally underrepresented in AP. This affiliation includes offering NMSI's Laying the Foundation teacher training, which contributes to sustainability of these gains as more students enroll in and are prepared for the rigors of AP.

### Participating Schools since Inception and New Cohort 8 Candidates<sup>†</sup>



<sup>†</sup> These schools' demographic profile includes 53 percent low income and 25 percent minority students.