



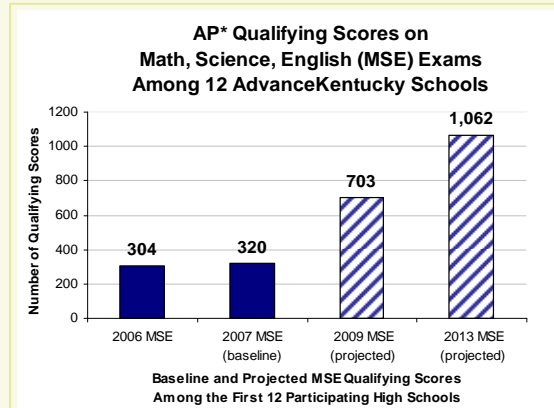
### Kentucky Profile

AdvanceKentucky™ is a statewide math-science initiative dedicated to helping Kentucky's students reach new heights in rigorous academic achievement. Begun in 2007, this is a six-year partnership between Kentucky Science and Technology Corporation (KSTC) and the National Math and Science Initiative (NMSI). Under conditions of matching over the six years, NMSI has committed \$13.2 million to AdvanceKentucky.

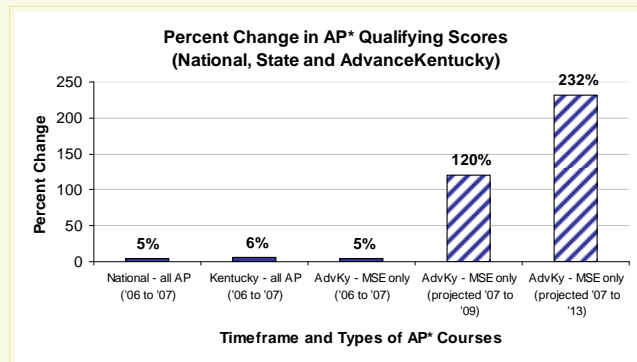
The NMSI Model (see opposite side), comprised of interrelated elements essential for success, is premised on proven success using a philosophy of inclusiveness and high expectations for each student to successfully prepare for and participate in academically rigorous coursework, i.e., the Advanced Placement (AP) Program\*.

Success is measured by growth of students' participation in AP courses both in terms of enrollments (Pre-AP and AP) and of Qualifying Scores in eligible MSE courses.

This chart presents the baseline data and growth projections for the number of students achieving qualifying scores on MSE AP exams among the first 12 AdvanceKentucky schools implementing the NMSI Model.



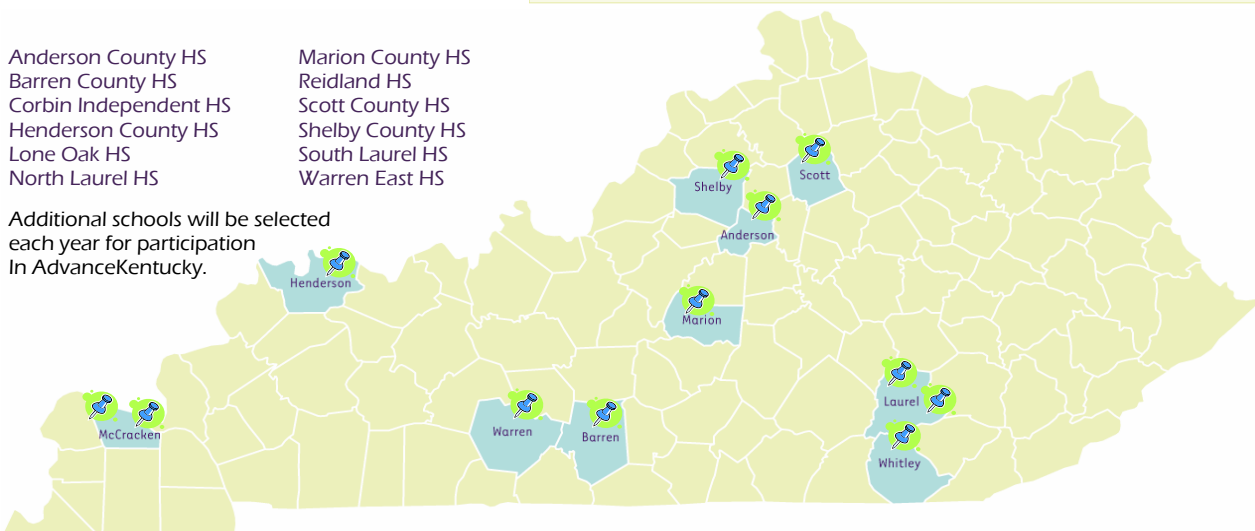
To place these aggressive growth projections in perspective, the number of qualifying scores on AP exams in all subjects increased from 2006 to 2007 by five percent nationally and six percent in Kentucky. Yet the first 12 schools are projected to grow by 120 percent just the first year and more than 230 percent over five years.



Anderson County HS  
Barren County HS  
Corbin Independent HS  
Henderson County HS  
Lone Oak HS  
North Laurel HS

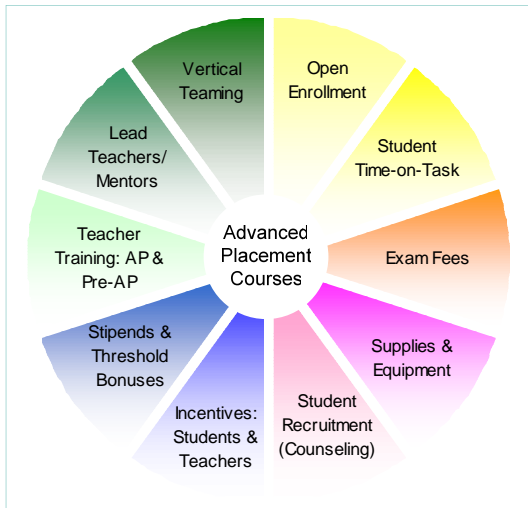
Marion County HS  
Reidland HS  
Scott County HS  
Shelby County HS  
South Laurel HS  
Warren East HS

Additional schools will be selected each year for participation in AdvanceKentucky.



## 2008 ADVANCE KENTUCKY HIGH SCHOOLS

## NMSI MODEL ELEMENTS OF SUCCESS



The components of the NMSI Model that AdvanceKentucky is replicating are designed to be implemented in a coordinated, complementary manner. Described briefly below are these interrelated components.

### ELEMENTS FOR STUDENTS

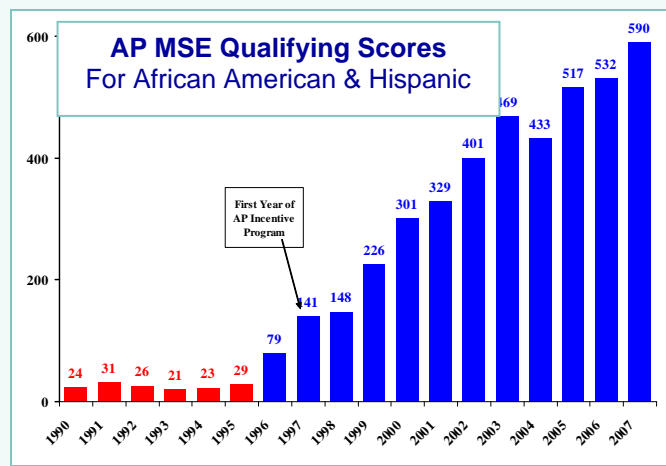
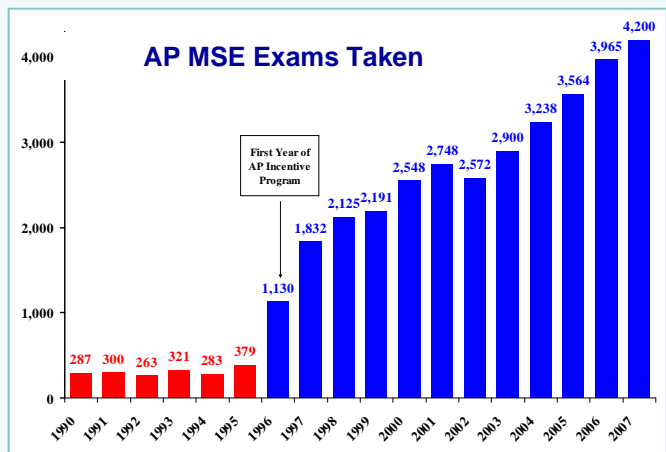
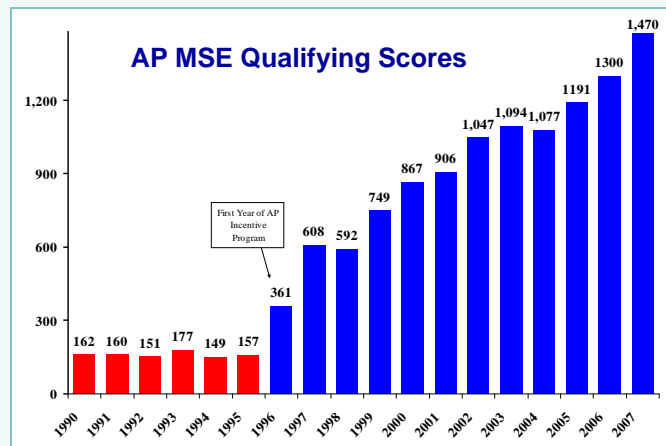
- **AP Courses in MSE:** Rigorous AP college-level courses in math, science and English.
- **Open Enrollments:** A culture of inclusiveness and preparation for more students to enroll in AP classes.
- **Student Time-on-Task:** Tutoring, exam prep sessions and other support made readily available to students.
- **Exam Fees:** Supplements to help cover AP exam fees not provided from other sources.
- **Incentives:** Students receive \$100 per Qualifying Score (3, 4, or 5) on AP exams in eligible MSE courses.
- **Counseling/Recruiting:** Supportive information to help in student/family decisions to prepare for and enroll in AP. (test preparation program)

### ELEMENTS FOR TEACHERS/ADMINISTRATORS/SCHOOLS

- **Lead Teachers/Mentors:** Master AP teachers help guide vertical teams in their relevant subject matter on a path to academic achievement for AP students, conduct exam prep session for students, and more.
- **Training:** For AP & Pre-AP teachers, 5-day summer institutes & other training during the academic yr.
- **Vertical Teaming:** Collaborations among high school and middle school teachers to coordinate preparation of students for success in AP classes.
- **Stipend & Incentives:** AP teachers receive a \$500 stipend to support additional responsibilities in extra training and teaching AP and \$100 per qualifying score achieved by students in their eligible AP classes.
- **Threshold Bonuses:** Achieving pre-set targets for Qualifying Scores (by class and by school) triggers bonuses for AP teachers and the designated school administrator.
- **Equipment & Supplies:** Schools can receive up to \$5,000 for equipment and \$25 per student in eligible AP classes.

\*\* Advanced Placement, AP and Pre-AP are registered trademarks of the College Entrance Examination Board, which was not involved in the production of this product.

## Results from 10 Dallas ISD Schools Served by AP Strategies Inc. For AP Exams in Math, Science or English Blue Bars Indicate the first year of the NMSI Model



The math, science and English (MSE) AP courses include: Calculus (AB, BC), Computer Science (A, AB), Statistics, Biology, Chemistry, Environmental Science, Physics (B, C: Electricity and Magnetism, C: Mechanics), English Language and English Literature.

