Building Quality AP Programs

Prepared for High School Administrators
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College Readiness

A student is college ready when the student can enroll and succeed in a credit-bearing course at a post-secondary institution without remediation or remedial support.

AP and College Success

- Students who take AP courses and exams are much more likely than their peers to complete a bachelor's degree in four years or less
- No AP 29% likely to finish in 4 years
- One AP 45% likely to finish in 4 years
- Two + AP 61% likely to finish in 4 years
- Another report shows that students who took AP courses were at least twice as likely to graduate college within five years (CPE 2012).

Impact of AP on 5-Year College Graduation Rates

Student Group	AP Exam Grade of 3, 4, 5	AP Exam Grade of 1, 2	Took AP course, but not exam
African- American	28% higher	22% higher	16% higher
Hispanic	28% higher	12% higher	10% higher
White	33% higher	22% higher	20% higher
Low-Income	26% higher	17% higher	12% higher
Not Low- Income	34% higher	23% higher	19% higher

Source: Chrys Dougherty, Lynn Mellor, and Shuling Jian, The Relationship Between Advanced Placement and College Graduation (National Center for Educational Accountability, 2005)

AP and STEM...TIMMS research, 2009

- US Calculus students ranked #21, out of 22 countries participating
- US AP Calculus students who scored 3+ on AP exam ranked #1
- US AP Calculus students who scored 1 or 2 on AP exam tied for #2
- US Physics students ranked #22, last
- AP Physics students who scored 3+ on AP exam: ranked
 #1
- U.S. students who "failed" the AP Calculus exam still outperformed students from all other industrialized countries on the Trends in Mathematics and Science Study (TIMSS).

The Advanced Placement Program in Georgia, 2012

- 55% of AP exam scores for Georgia students were in the
 3 or higher range
- Georgia was 13th in the nation in the percentage of students in the Class of 2011 scoring 3 or higher on an AP exam during high school

 38% of students in the Class of 2011 took an AP exam during high school

The Advanced Placement Program in Georgia, 2012

- 85,691 students took AP courses
- 147,404 course enrollments
- 69,495 took AP exams
- 116,703 total number of AP exams
- Georgia's number of exams taken increased by 9.9% over
 2011; national increase was 7%
- Number of AP exams in Georgia scored at 3 or higher has increased 55.2% since 2007

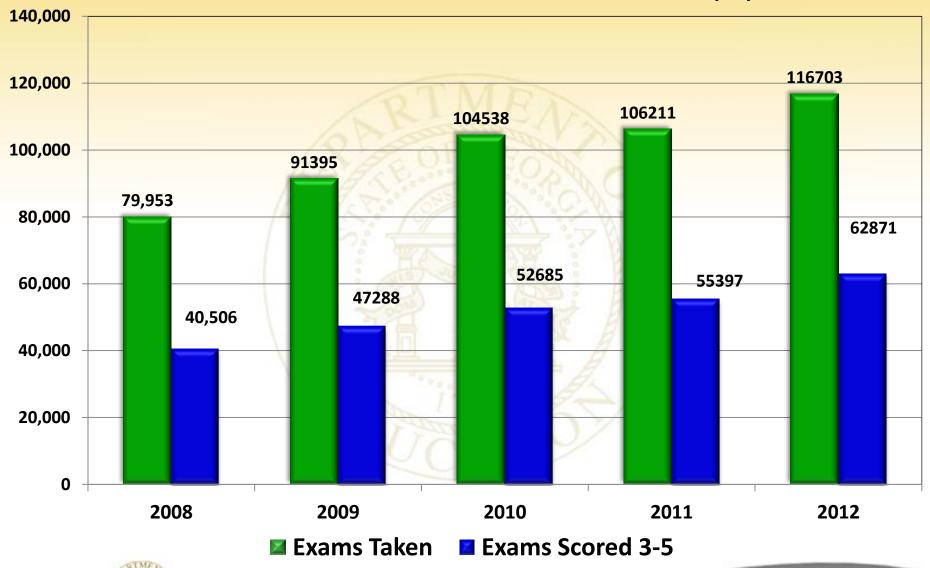
Dr. John D. Barge, State School Superintendent "Making Education Work for All Georgians" www.gadoe.org

AP is Growing Among Minorities*

Test Takers by Minority Subgroups in Georgia 7115 3189 ► Hispanic 🖶 African-Am → Asian



Number of GA AP Exams and Exams Scored 3, 4, or 5





Can You Afford to Not Offer Your Students a Quality Advanced Placement Program?

Recruiting and Training AP Teachers

- Effective AP Teachers are...
 - Internally driven to produce results
 - Goal oriented
 - Innovative
 - Use data effectively to improve instruction
 - Able to balanced standards and autonomy
 - Committed to professional growth

Attracting AP Teachers

- Open AP Opportunities to teachers new to your school
- Reference AP in Job Postings
- Showcase an Inviting Professional Atmosphere
 - School Profile Pamphlets
 - School Web Site
 - Select very talented teachers to 'shadow' and work collaboratively with successful AP teachers who are near retirement

Effective AP Teachers Provide

- Performance Criteria
- Guided Practice
- Detailed, Timely, Specific Feedback
- Quality, Compelling Assessments
- Compassion

Teachers who treat AP as a tool to energize the curriculum and an opportunity for all students to experience a rigorous course structure which will better prepare them for the challenges of college

It is Essential to Have the Right Teacher in AP Classrooms.

While serving as a model of educational excellence and functioning as a catalyst that helps raise the bar for academic achievement in schools, the success of an AP program lies in the hands of teachers. Their energy and enthusiasm inspire students, and their knowledge and skills motivate their peers.

Training AP Teachers

- Effective AP teachers attend an AP Summer Institute before launching their AP course.
- Effective AP teachers attend one day College Board workshops each year.
- Effective AP teachers use a syllabus they have submitted to the College Board for authorization.
- Effective AP teachers utilize their annual AP Instructional Report.
- Effective AP teachers utilize APCentral and the teacher communication tool.
- Effective AP teachers attend GaDOE Regional Content Workshops, each fall.

Teacher-Training Grants: Advanced Placement Summer Institutes Funded with Title II-A Funds*

2006- 143 teachers trained* 139 additional AP classes

2007- 86 teachers trained
 94 additional AP classes

2008- 232 teachers trained
 150 additional AP classes

2009- 414 teachers trained
 240 additional AP classes

2010- 473 teachers trained
 238 additional AP classes

2011- 495 teachers trained 288 additional AP classes

• 2012-427 teachers trained; 211 STEM classes; 248 additional AP classes

^{* 2006} included funding from another source



Recruiting AP Students Step One

The number one tool for recruitment of AP students is:

AP Potential

AP Potential

- Identifies "diamond-in-the-rough" AP students
- Indicates AP courses for which they might be suited
- Promotes equity
 - Identifies candidates based on performance on PSAT
- Provides names of students for principals and counselors
 - to expand AP programs
 - to add courses
 - to increase enrollment in current AP courses

AP Potential is a research-driven, free Web-based tool that will help you identify AP students. This powerful tool will enable you to:
Identify students likely to succeed on AP Exams by
Improving access to AP and analyzing data and PSAT/NMSQT scores

Ensure that no student with the potential to succeed in AP is overlooked.

Help make determinations as to which AP courses to offer at your school

College Board research published in 1998 and 2006 shows strong correlations between students' PSAT/NMSQT scores and AP Exam results. These studies show that PSAT/NMSQT scores are strong predictors of students' AP Exam scores, and when used in conjunction with the more traditional signposts such as high school grades, grades in previous same-discipline course work, and the number of same-discipline courses a student has taken, can serve to provide reliable guidance in identifying additional students who may be ready for the rigor of AP.







Select Subjects

AP Potential > Select Subjects > Select Pool	Select the subjects offered by your soffering.	school, or those you are interested in	<u>Prin</u>
> Student Roster About AP Potential	Select All Subjects		
SIGN OUT	☐ Art History	Government & Politics: Comp	arative
	☑ Biology	Government & Politics: U.S.	
	✓ Calculus AB	✓ Macroeconomics	
	✓ Calculus BC	✓ Microeconomics	
	✓ Chemistry	✓ Music Theory	
	✓ Computer Science A	☑ Physics B	
	Computer Science AB	☐ Physics C: Electricity & Magne	etism
	English Language	☐ Physics C: Mechanics	
	English Literature	✓ Psychology	
	European History	✓ U.S. History	
	NEXT		



AP Potential™ A Tool for Finding Additional AP® Students



Print |

Select Pool

AP Potential

- > Select Subjects
- > Select Pool
- > Student Roster

About AP Potential

SIGN OUT

Choose the grade level(s) for the students you wish to find.

See important note about 9th grade data.



Define the pool of potential AP students that will appear on your roster. Click for an explanation

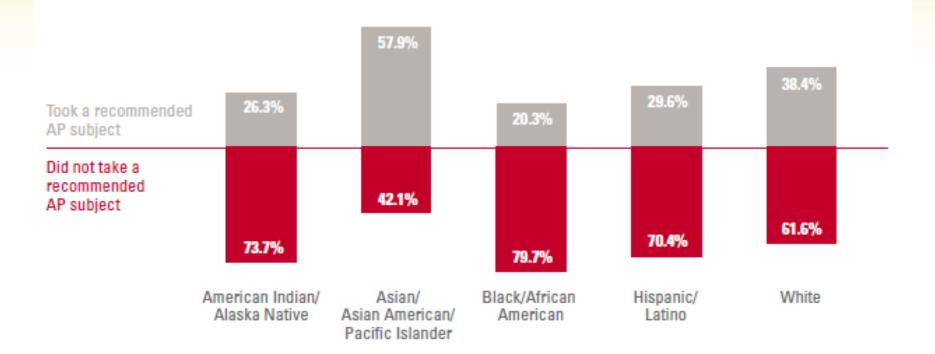
Define Pool	Subject	2004 Potential AP Students	<u>2003</u> AP Exam Takers
62.8	Biology	30	15
51.2	Physics B	22	0
85.4	Microeconomics	2	0
72.8	Macroeconomics	8	69
90.4	Computer Science A	2	7
76.5	Music	22	1
49.9	Chemistry	22	0
58.2	Calculus BC	22	13
65	European History	67	22
38.2	Calculus AB	36	47
62.2	English Literature	67	121
66.5	English Language	33	103
82.7	U.S. Government & Politics	16	95
87.7	U.S. History	4	103
84.9	Psychology	33	38

NEXT

CONTACT US CAREERS **TERMS & CONDITIONS** PRIVACY POLICY

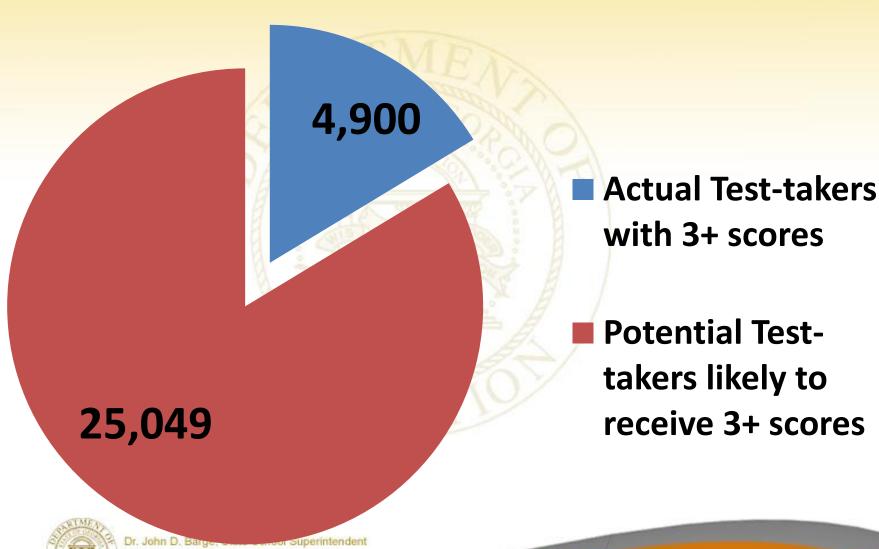
National Data: AP Potential

Figure 6: Participation in recommended AP subjects by race/ethnicity of graduates with AP potential





AP English Literature Based on Georgia's 2012 PSAT Data Public Schools



AP CALCULUS AB BASED ON GEORGIA'S 2012 PSAT- PUBLIC SCHOOLS

3,312

Potential test-takers likely to receive score 3+ score

Actual Test-takers with 3+ scores

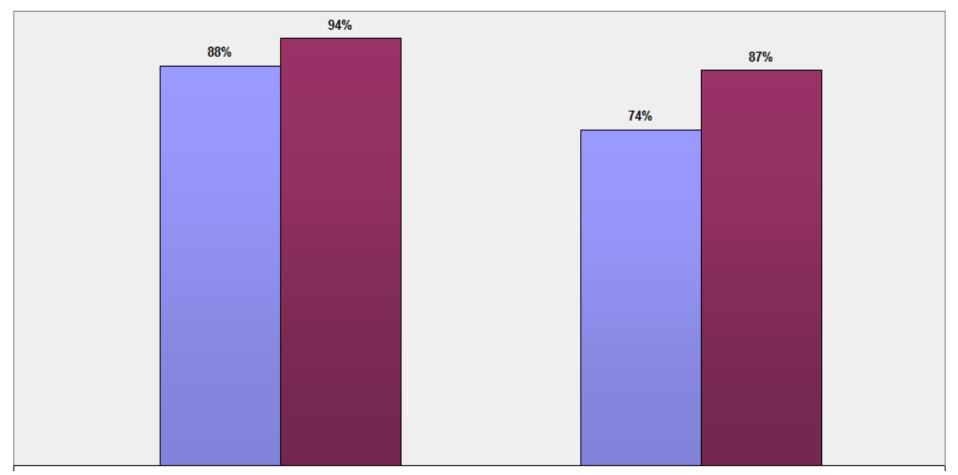
26,625



Taking AP or IB courses in high school can help mitigate the effects of below average achievement and economic disadvantage on students' post-secondary success. Just by taking these high-level courses, low-income, low-achieving students improved their college persistence rates close to their high-income, high-achieving peers.

Chart 1: College Freshmen Returning for their Sophomore Year In Percent

■Never Taken an AP/IB Course ■Taken an AP/IB Course



High SES / Achievement

Low SES / Achievement

Based on students enrolled in four-year colleges. Center for Public Education, 2012

AP Potential

http://www.appotential.collegeboard.com

- Click on "About AP Potential"
- Click on "Demo"
- If you have your code, you can print reports for each grade level.

Recruiting Students Step Two

- A. Schedule an AP Night for parents.
 - Invite former AP students to speak on the benefits of a rigorous curriculum
 - Invite AP teachers to share the benefits of a rigorous course experience

B. Invite former AP students speak to students.

Recruiting Students Step Three

- Apply the lessons of Georgia's Gifted Education Reform
 - As you promote inclusion, there will be some who fear a "watered down" AP program
 - Do not lower standards
 - Increase the support systems for students and teachers

Remember the power of an invitation to the banquet

Recruiting Students Step Four

- Select the right teachers for AP
- Select the AP courses right for your school

Course Equivalents

1 semester of college

Calculus AB, Computer Science A, Environmental Science, Human Geography, Government and Politics (US) and (Comparative), Macroeconomics, Microeconomics, Physics C: (electricity and magnetism), Physics C: (mechanics), Psychology, Statistics

1 year of college

Art History, biology, Calculus BC, Chemistry, Computer Science AB, English Language, English Literature, European History, Music theory, Physics B, Studio Art, US History, World History

• 3 years of college (5-6 semesters)

French Language, French Lit, German, Latin, Spanish Language, Spanish Lit

Scheduling for and Paying for AP

- Use AP Potential to ensure that classes reach the size to 'pay for themselves'
- Consider local summer in-service for AP teachers
- Use the Gifted Service Model for Advanced Content...

teacher AP summer institute trained; teacher completes 10 hour course on needs of the gifted learner;

Gifted students in class earn at 1.6586

AP and the 4X4

Two models being successfully used in GA

Semester A...partnered intro course
 Semester B...AP course

Courses must have different, state-approved course code.

2. Split 90 minute block into 2 forty-five minute segments taught by same teacher...each segment taught and graded independently

1st segment, partnered elective course

2nd segment, AP course

each segment earns .5 credit per semester

Sustaining Quality AP Step One

Require that students take the AP exam

Teachers whose students take the AP exam receive the AP Instructional Planning Report; it is a powerful resource for AP teachers and administrators serious about planning for improved student achievement

The AP Instructional Planning Report

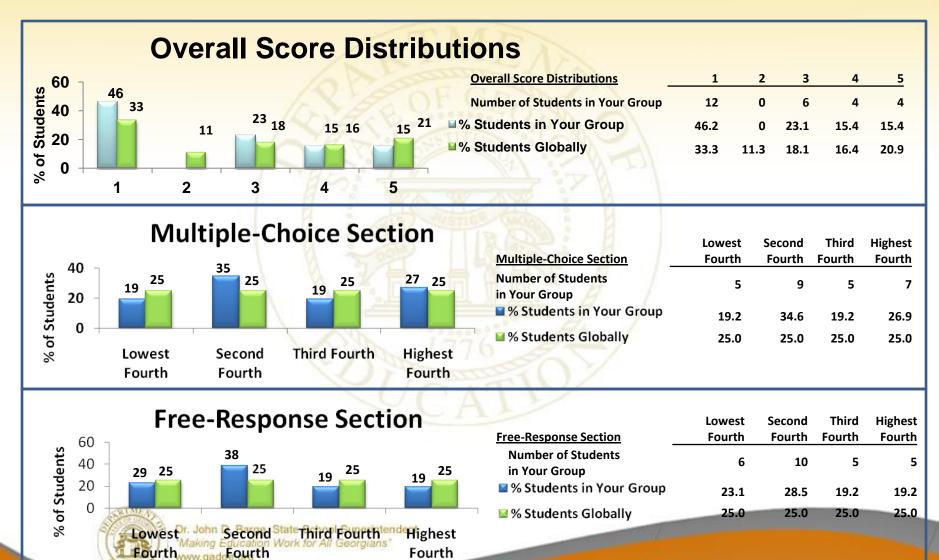
- Available online since July of 2010 for all teachers, building administrators and coordinators who have established an account
- Separate report for each subject; compares the performance of a school's students to the total population of students taking the exam
- Helps teacher target areas for increased attention and focus in the curriculum. Can help guide teachers in course planning and professional development
- Essential for improvement, AP course by AP course

AP Instructional Planning Report

- Subject-specific report showing the performance of students on the multiple-choice and free-response sections and on specific topics within that AP Exam, compared to all students
- A powerful resource for AP teachers: helps teachers target areas for increased attention and focus in the curriculum. Can help guide teachers in course planning and professional development
- With the new online system, teachers now get their AP Instructional Planning Reports directly, and earlier in the summer so that they can make any curriculum adjustments in time for the new school year.

AP Instructional Planning Report Calculus AB

Your Group Total Students: 26 Global Total Students: 238,262



AP Instructional Planning Report Calculus AB

Performance on Multiple-Choice Section (Maximum Possible Score = 54)

				Number of Students in Your Group			
Content Area	Number of Questions	Global Mean	Group Mean	Lowest Fourth	Second Fourth	Third Fourth	Highest Fourth
Differential Calculus	29	11.3	11.0	5	10	5	6
Integral Calculus	16	6.6	5.8	8	7	6	5
Part A – No Calculator	28	10.6	9.2	11	4	5	6
Part B – With Graphing Calculator	17	7.3	7.6	5	6	8	7
Calculator Active items	6	3.1	2.9	6	11	4	5
Multiple – Choice Summary		21.4	20.1	5	9	5	7

Performance on Free-Response Section (Maximum Possible Score = 50)

				Number of Students in Your Group			
Question/Problem	Max Possible Score	Global Mean	Group Mean	Lowest Fourth	Second Fourth	Third Fourth	Highest Fourth
Modeling Rate – AB & BC	9	3.7	4.5	2	6	8	10
Model Numerically/Analytically – AB & BC	9	2.6	2.7	2	7	12	5
Model Graphically	9	2.2	1.9	4	4	16	2
Area and Volume – AB & BC	9	3.7	3.6	5	13	1	7
Graphical Analysis of G and G'	9	1.7	1.9	10	6	2	8
Diff. Eq/Tangent Line	9	3.1	2.4	10	6	5	5
Free-Response Summary		17.0	17.0	6	10	5	5

Data Available for the AP Program (if students take the AP exam)

- # AP courses
- # students taking AP
- % students enrolled in AP classes
- Individual score reports
- School score reports
- AP course enrollments
- Historical trends
- Global results vs. school results
- Results returned to teachers

Seeing Data by Class Section

- If your school has more than one class section or teacher for a particular AP subject, you must designate class sections on student answer sheets in order for your school to see a separate AP Instructional Planning Report and subject score roster for each class section:
 - 1. Assign each class section or teacher a different number.
 - 2. During the exam administration, fill in the oval corresponding to each student's class number in the "School Use Only" section on page 1 of the answer sheet. (This is different from the fee reduction option bubbles.)
 - 3. Tell teachers which section numbers correspond to their particular sections. They will need to indicate this when signing in to the Online Score Reports website for the first time.
- This feature helps your school control who sees student scores when more than one teacher teaches an AP subject.

Accessing Online Score Reports

All authorized AP teachers, AP Coordinators, and principals need an Education Professional account to view reports.

• You should already have an Education Professional account if you have used AP Exam Ordering or AP Potential™ sites, or if you have used the AP Course Audit website since March 2010.

In addition to an Education Professional account (which is required for everyone), some users will also need an access code.

- Anyone with an authorized role in the Course Audit will not need an access code.
- AP Coordinators and principals who do not already have an AP Course Audit account will need an access code.

For more details on access, visit http://scores.collegeboard.com

Sustaining Quality AP Step Two

- Provide monetary support for AP classes
 - purchase college texts for students
 - provide AP teachers with a budget to buy ancillary readers, if applicable
 - provide AP teachers with a budget to buy lab items, if applicable
 - provide AP teachers with a budget to purchase AP support materials from the College Board
- Apply for GaDOE AP Teacher Training Grants
- Apply for federal grants that may be offered

Sustaining Quality AP Step Three

- Plan and budget for on-going professional development for AP and pre-AP teachers
 - AP workshops
 - AP Summer Institutes
 - Full-day teaching and learning conferences
 - Two-day specialty conferences
 - Special topics seminars
 - Pre-AP conferences and Summer Institutes

AP and Title II-A

 Title II-A funds are designated for teacher development. Title II-A funds are an excellent source of funding for the on-going professional learning needed to guarantee quality AP teachers and quality AP outcomes for your students. Access your district's Title II-A funds to support your AP initiative in your school.

AP and Title I

 Title I schools may use Title I funds to purchase AP materials for students. Care must be taken to avoid supplanting issues. Check with your local Title I administrator before designating use of Title I funds.

Sustaining AP Step Four

- Provide time and support for vertical teaming within the high school to allow teachers within each discipline to align curricula and plan across grade levels
- Use the College Board Standards for College Success in all core classes
- Encourage your AP teachers to become AP Readers
- Train all teachers in Pre-AP Strategies

Sustaining AP Step Five

Link your AP teachers, your pre-AP teachers and all administrators with <u>AP Central</u>
 the official AP web site contains:
 tips, tools and resources for teachers;
 up-to-date info about exams
 electronic library of publications
 AP community discussion groups

http://apcentral.collegeboard.com

AP Team

- Do you have an AP leadership team in your school?
- Do your AP teachers in each curriculum area orient all other teachers in their respective departments to the demands of AP?

Sustaining AP Step Six

Helping students succeed in AP by Creating Student Support Systems

- 1) Provide summer school enrichment opportunities to increase readiness for AP courses
- 2) Assign staff before and after school to make tutoring for AP courses available
- 3) Provide mentoring for first-time AP students
- 4) Consider offering weighted GPA quality points for AP students who complete the course and take the AP exam

What Can AP Do For Your School?

Remember:

Students in AP courses prepare for success in college by taking these college-level courses while still in high school

Students who take AP courses and the AP exam improve their chances of college admission

Students who take AP courses much more likely to be college and work ready when they graduate from high school

Benefits, con't

- AP courses improve the quality and guarantee rigor in your curriculum
- AP courses keep students motivated and challenged
- AP courses give teachers the opportunity for advanced study in their disciplines
- AP courses provide teachers and administrators with nationally normed feedback
- AP courses keep great students in their high school classrooms..no loss of FTE due to enrollment elsewhere

Benefits, con't

- An AP program demonstrates a school's commitment to challenging academics
- An AP program demonstrates achievement of desired outcomes to community and state
- An AP program leads to an upgrade of curriculum in the years leading up to AP
- AP programs assist in your CCRPI score

Remember, No One Fails an AP Exam

Except school leaders who choose not to take advantage of AP as a means of guaranteeing rigor and results for their students.

GEORGIA: RECOGNIZING AP PROGRAMS



AP DAY FEBRUARY 20, 2013

Melissa H. Williams, Ph.D. Principal, Woodland High School (Bartow County) Ms. Heather Candela, AP Coordinator, Woodland High School (Bartow County)



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AP Reports Online

- Available July 2013- At educators' website
- AP Instructional Planning Report:
 Subject-specific report showing the performance of students on the multiple-choice and free-response sections and on specific topics within that AP Exam, compared to all students
- Subject Score Roster:
 Roster for each AP subject listing all students and their AP scores.



School or District Score Roster:

Roster showing all AP students who tested during a specific exam year, and their AP scores. This report is customizable to display these students' scores from previous years

Student Datafile:

A <u>downloadable .csv file</u> containing student score report data for each AP student who tested this year. This information can be uploaded to other systems for internal

analysis and planning.

http://professionals.collegeboard.com/te sting/ap/scores/online-score-reporting

Current Year Score Summary:
 Report listing the total numbers of each AP score (1 to 5) for each AP subject offered at a school.

Five-Year School Score Summary:

Report containing five years of data at the school, state and global levels, and subject-specific summaries of total exams, scores and mean scores



VERY IMPORTANT INFO

- Complete the AP participation material
 - Received in September

To order AP Exams, your principal and AP Coordinator must complete these materials no later than November 15. If you have not received AP participation materials by October, contact AP Services.

Participate in the AP Course audit
 Each AP teacher must submit copy of course syllabus
 School administrator must submit AP Course audit form