

Advanced Placement Philosophy & Performance

October 23, 2017





Advanced Placement Course Offerings

Biology

Calculus AB

Calculus BC

Chemistry

Computer Science A

English Language

English Literature

French Language

Human Geography

Italian Language

Latin

Music Theory

Physics

Spanish Language

Statistics

Studio Art

US History

US Government & Politics

World History

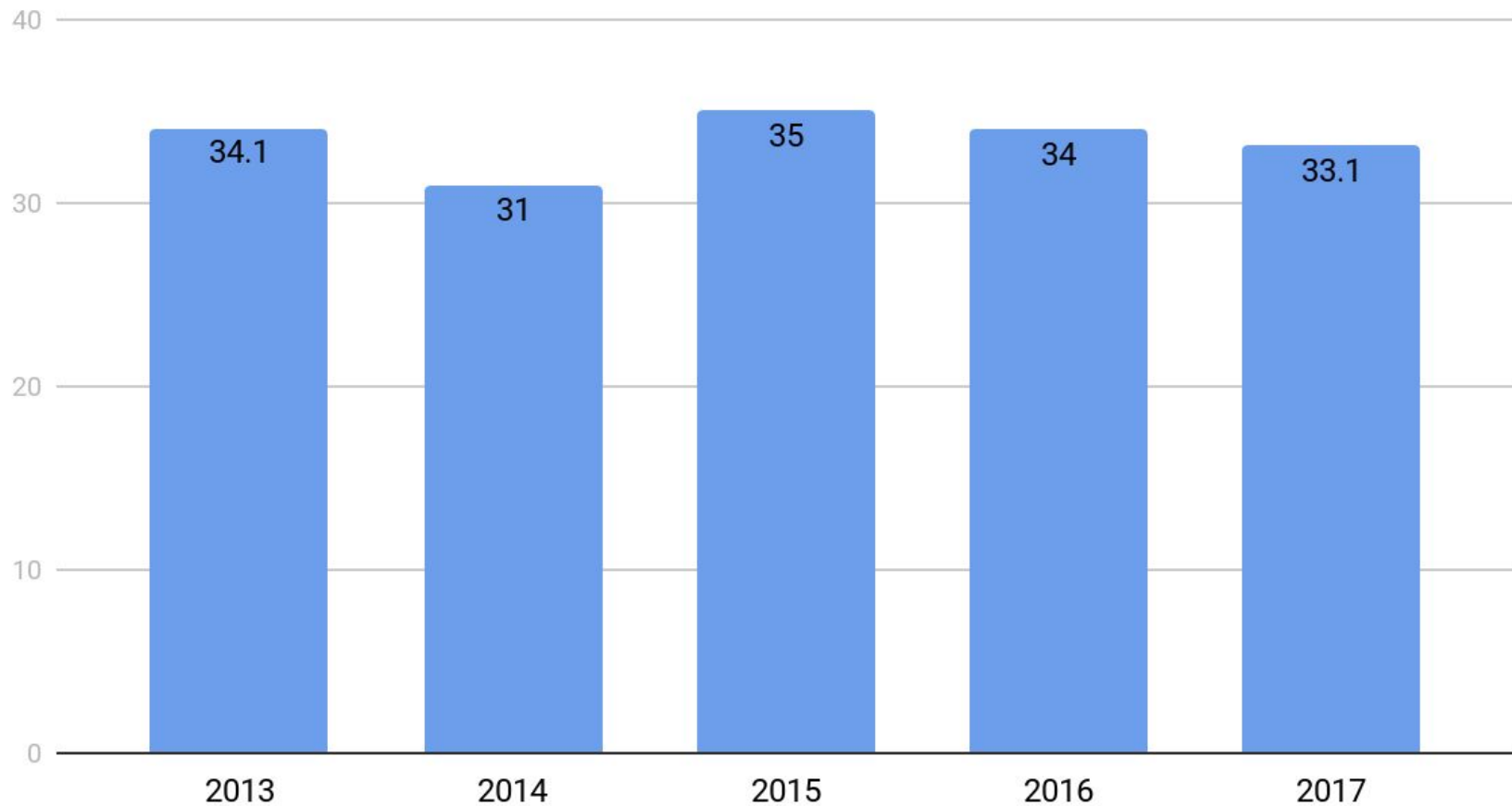
Students also take AP exams in Art History, Chinese Language, Microeconomics, and Macroeconomics



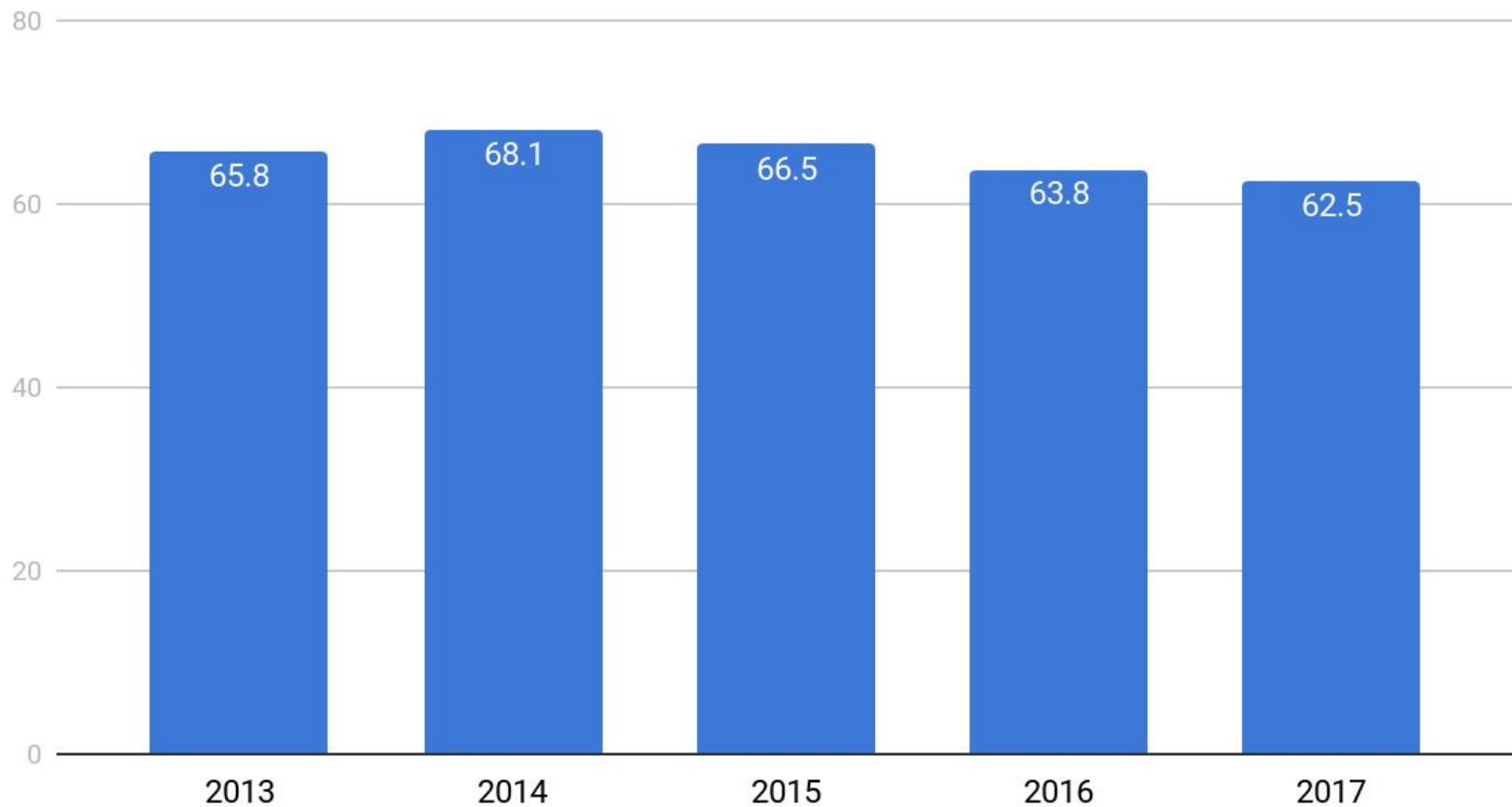
AP Philosophy

- The *experience* of taking an AP course is valuable for all students
- AP students test and push themselves in a familiar setting while gaining confidence, developing good study habits, and enjoying a great learning experience
- NFHS has historically maintained an open access policy for all AP courses
- AP exam participation is required for students to earn weight 5 GPA credit
- Committed to expanding access:
 - Using AP Potential, a research-driven tool based on PSAT scores, to identify AP students and help students choose the AP courses that most interest them

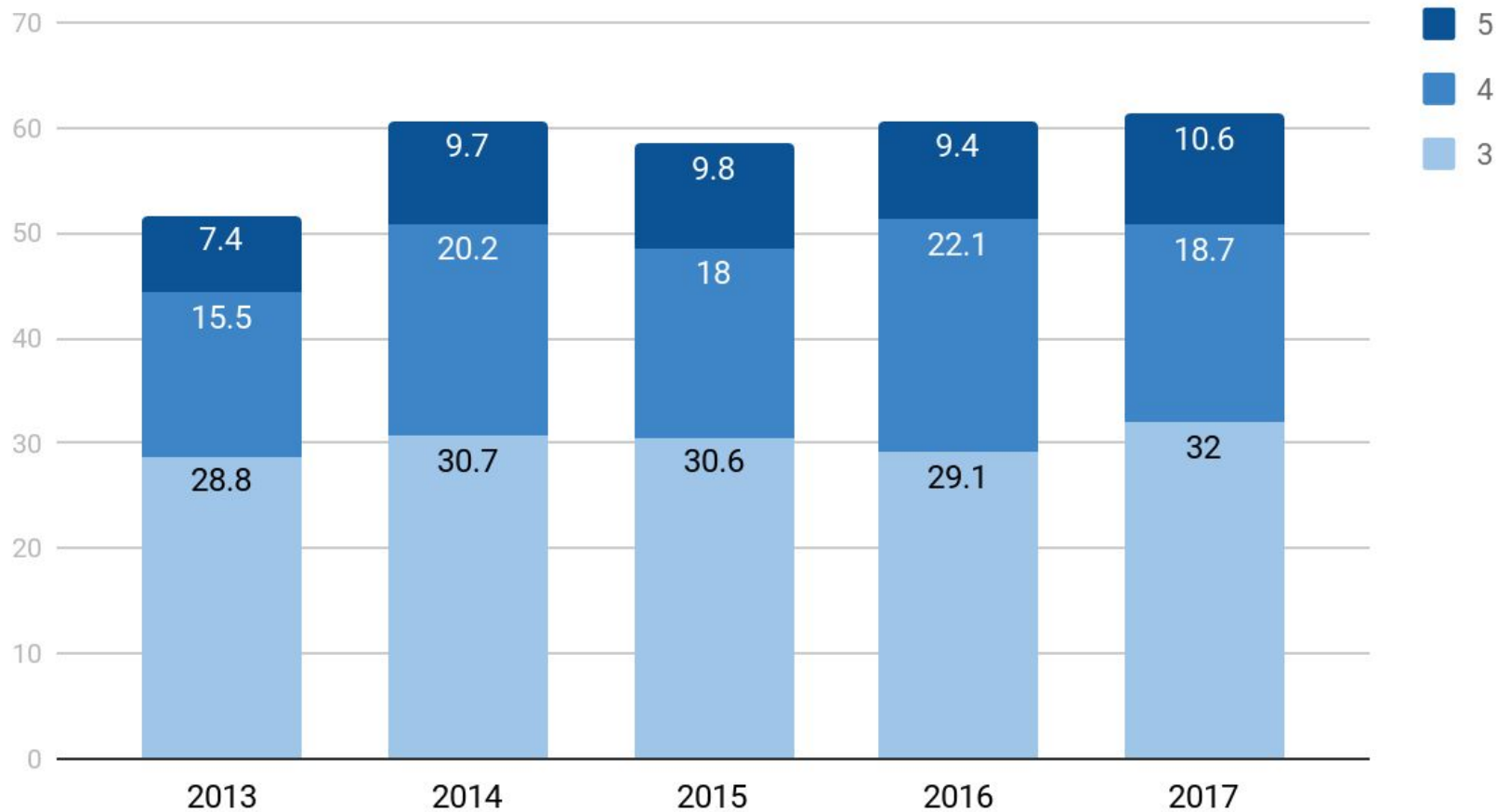
AP Exam Participation Rate (Percentage of Grade 10 -12 Students)



% of AP Students with Scores 3+



% of AP Exams with Scores 3, 4, or 5





Steps to Improve AP Performance

- **Adjust course syllabus using disaggregated data from AP scores**
 - All courses are audited annually by the College Board
 - Analyze instructional planning reports to identify areas for improvement in curricula
 - Examples include AP European History, Chemistry, and English Language who reworked course structure
- **Continue to send teachers to AP training and scoring**
 - Pilot an AP mentor program in 2017 - 2018
 - Three teachers attended summer AP intensive institutes
- **Analyze vertical alignment of Pre-AP courses to identify areas of growth**

AP Instructional Planning Reports

New Fairfield High School (070476) - Chemistry

Performance on Multiple-Choice Section (Maximum Possible Score = 50)

Content Area	Number of Questions	Global Mean	Group Mean	Number of Students in Your Group			
				Lowest Fourth	Second Fourth	Third Fourth	Highest Fourth
BI1: ATOMIC STRUCTURE	9	6	5	2	13	7	7
BI2: STRUCTURE AND PROPERTY RELATIONS	14	8	8	5	10	7	7
BI3: TRANSFORMATION	6	3	3	6	7	10	6
BI4: KINETICS	8	4	4	5	5	17	2
BI5: THERMODYNAMICS	10	6	5	5	12	10	2
BI6: EQUILIBRIUM	17	8	7	6	11	7	5
SP1: USES REPRESENTATIONS AND MODELS TO COMMUNICATE SCIENTIFIC PHENOMENA AND SOLVE PROBLEMS	16	9	9	9	9	7	4
SP2: USES MATHEMATICS APPROPRIATELY	11	5	4	11	5	5	8
SP3: ENGAGES IN SCIENTIFIC QUESTIONING TO EXTEND THINKING OR GUIDE INVESTIGATIONS	1	## **	## **	## **	## **	## **	## **
SP4: PLANS AND IMPLEMENTS DATA COLLECTION STRATEGIES	7	4	4	5	6	8	10
SP5: PERFORMS DATA ANALYSIS AND EVALUATION OF EVIDENCE	14	7	7	4	9	12	4
SP6: WORKS WITH SCIENTIFIC EXPLANATIONS AND THEORIES	22	11	10	5	12	6	6
SP7: CONNECTS AND RELATES KNOWLEDGE ACROSS SCALES, CONCEPTS, REPRESENTATIONS, AND DOMAINS.	13	7	6	9	10	5	5
Multiple-Choice Summary		27	25	4	17	4	4

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

Question/Problem	SP	Max Possible Score	Global Mean	Group Mean	Number of Students in Your Group			
					Lowest Fourth	Second Fourth	Third Fourth	Highest Fourth
CCL4 SYNTHESIS	1, 2, 5, 6	10	5.5	6.1	2	8	6	13
FULMINIC AND ISOCYANIC ACIDS	1, 2, 4, 5, 6, 7	10	3.2	2.5	0	18	8	3
NO AND HNO2	2, 4, 6	10	2.9	2.9	2	11	8	8
PAPER CHROMATOGRAPHY	4, 5, 6	4	1.8	1.6	4	9	13	3



AP Instructional Planning Reports

New Fairfield High School (070476) - United States Government and Politics

Performance on Multiple-Choice Section (Maximum Possible Score = 60)

Content Area	Number of Questions	Global Mean	Group Mean	Number of Students in Your Group			
				Lowest Fourth	Second Fourth	Third Fourth	Highest Fourth
CONSTITUTIONAL UNDERPINNINGS	5	3	4	0	2	0	11
CITIZEN BELIEFS AND BEHAVIOR	9	7	8	1	1	1	10
PARTIES, IGS, PACS, MEDIA	10	6	8	1	1	3	8
INSTITUTIONS	23	14	17	1	0	5	7
PUBLIC POLICY	7	4	5	0	2	7	4
CIVIL RIGHTS AND LIBERTIES	6	4	4	1	3	3	6
Multiple-Choice Summary		38	47	0	2	5	6

Performance on Free-Response Section (Maximum Possible Score = 60)

Question/Problem	Max Possible Score	Global Mean	Group Mean	Number of Students in Your Group			
				Lowest Fourth	Second Fourth	Third Fourth	Highest Fourth
INSTITUTIONS	5	1.8	2.2	0	4	0	9
PARTIES/INTEREST GROUPS/PACS/MEDIA	5	2.5	3.8	0	1	5	7
PUBLIC POLICY	5	2.3	3.1	0	2	1	10
CONSTITUTIONAL UNDERPINNINGS	5	1.9	3.5	0	1	0	12
Free-Response Summary		25.2	37.8	0	1	4	8

Indicates that the distribution is not displayed because more than half of the total AP global group earned the same score.

** Indicates that the distribution is not displayed because there were fewer than five questions in the category