

Achievement Gaps in Virginia's Public Schools

Presentation to the Virginia Board of
Education
April 2012

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Executive Director, Research and Strategic Planning

Overview of Data Sources Included*

- Standards of Learning Assessments
- National Assessment of Educational Progress
- SAT[©]
- Advanced Placement (AP)[©]

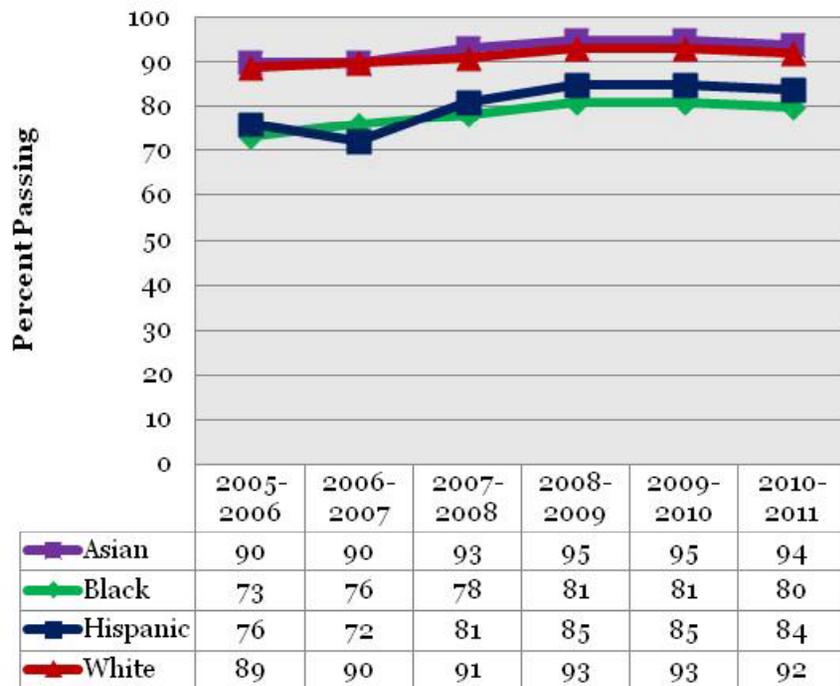
*High school graduation rate data were presented during this same meeting. The presentation is available online at: http://www.doe.virginia.gov/boe/meetings/2012/04_apr/agenda_items/item_b.pdf.

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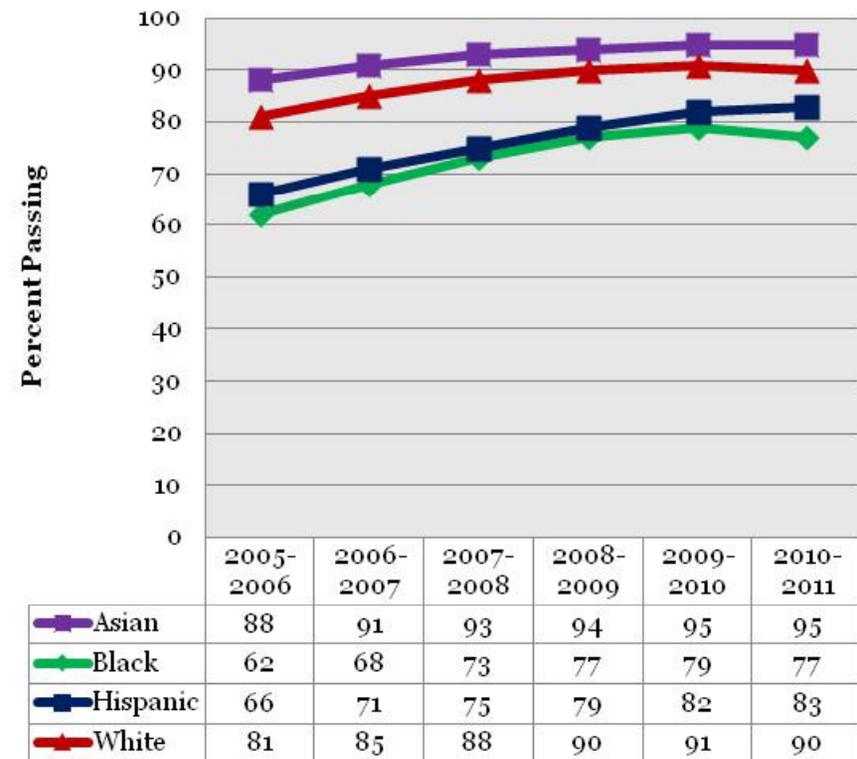
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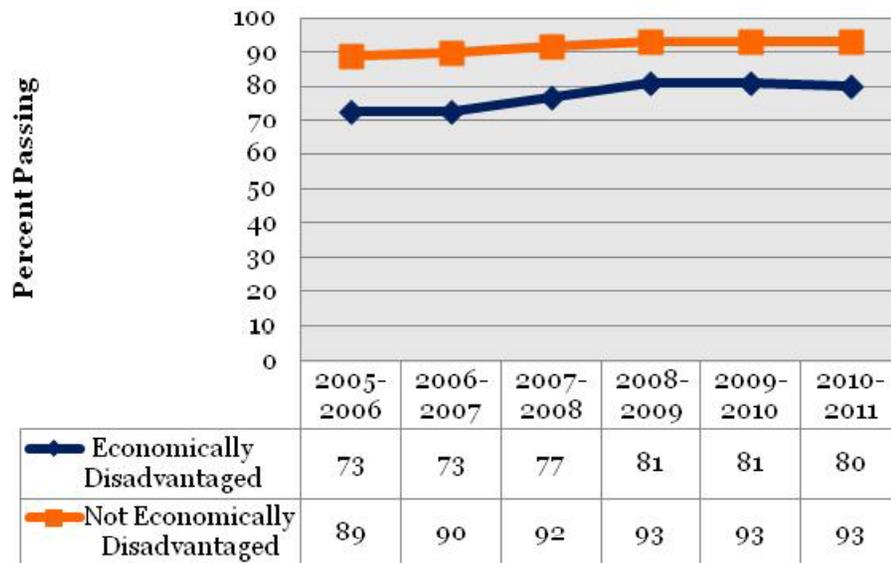
SOL Pass Rates : English Reading 2005-2006 through 2010-2011



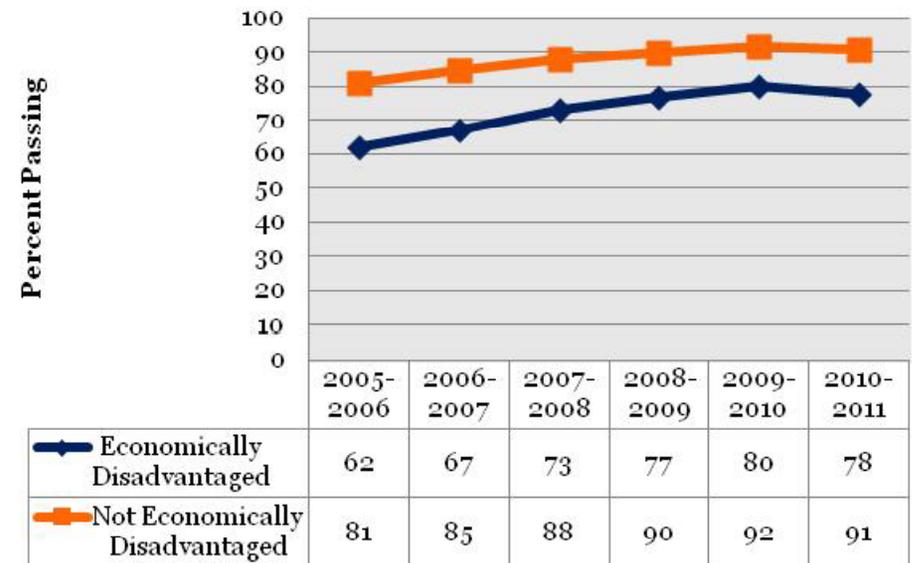
SOL Pass Rates : Mathematics 2005-2006 through 2010-2011



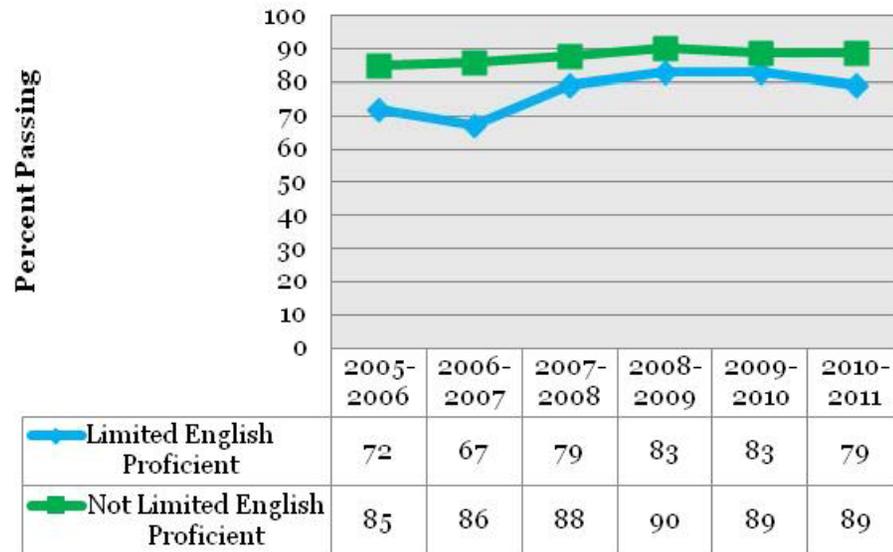
**SOL Pass Rates : English Reading
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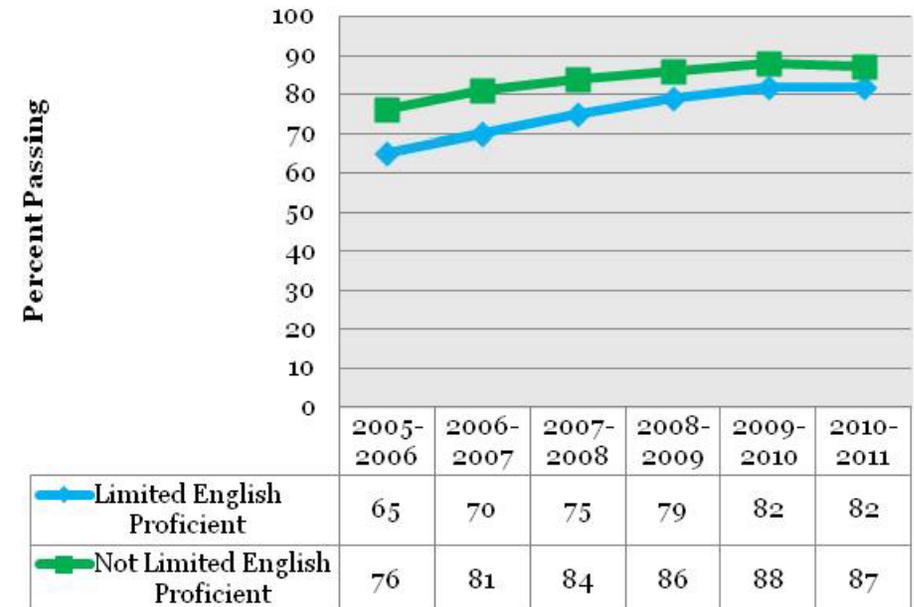
**SOL Pass Rates : Mathematics
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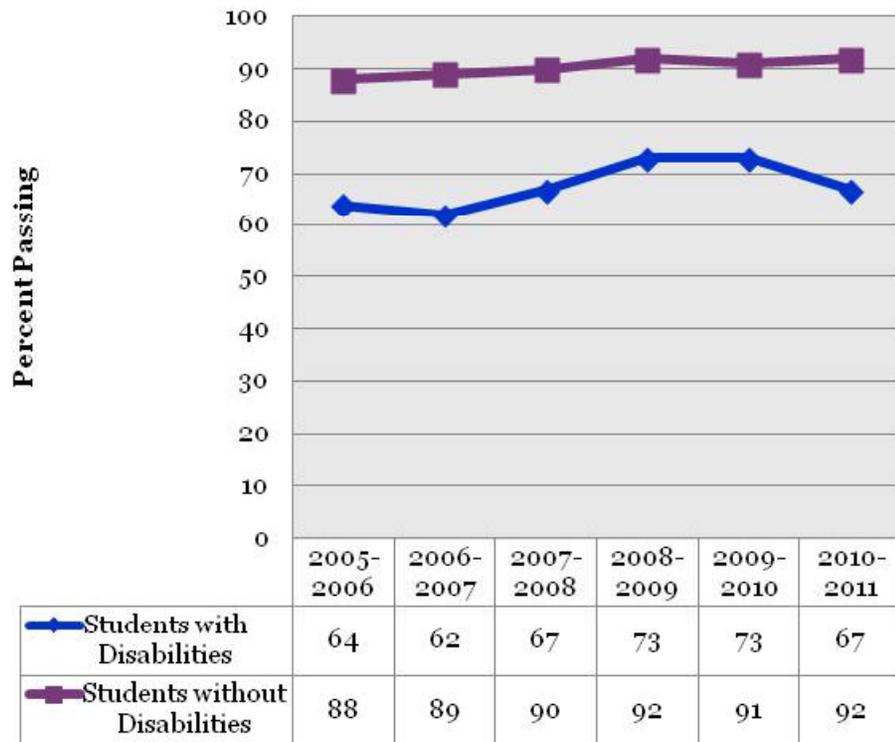
SOL Pass Rates : English Reading 2005-2006 through 2010-2011



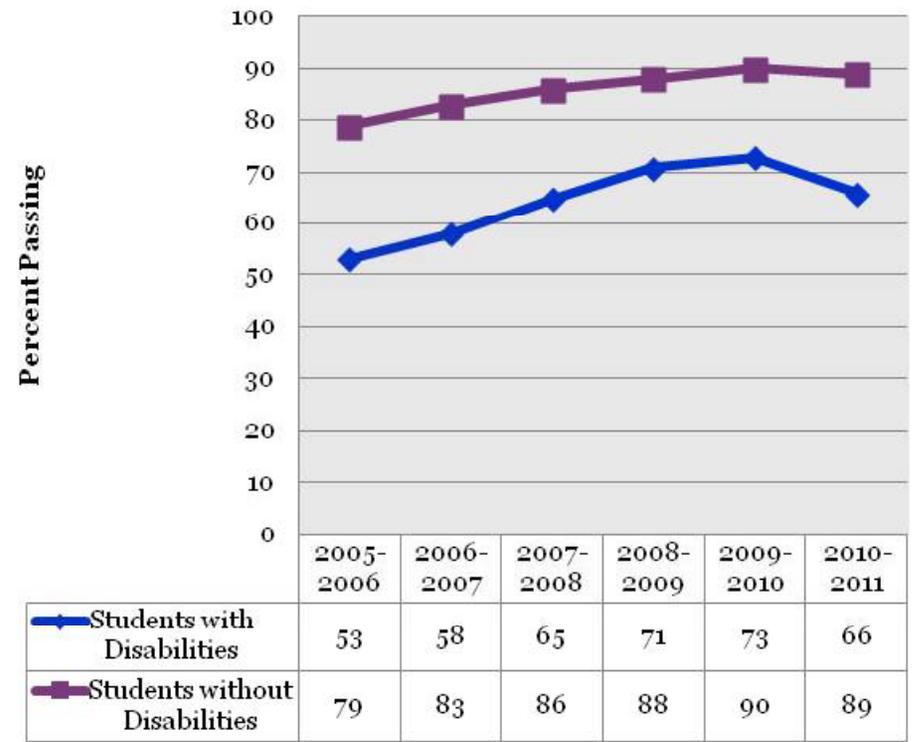
SOL Pass Rates : Mathematics 2005-2006 through 2010-2011



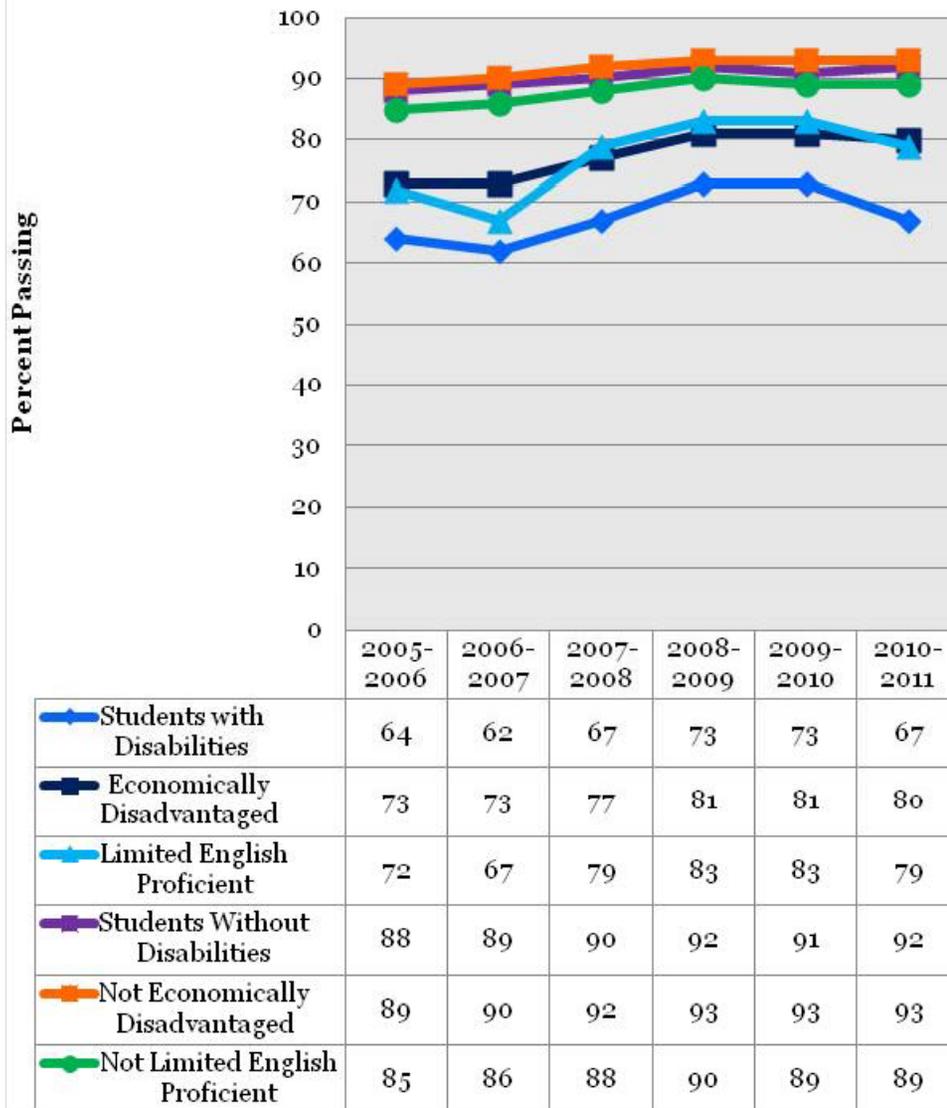
SOL Pass Rates : English Reading 2005-2006 through 2010-2011



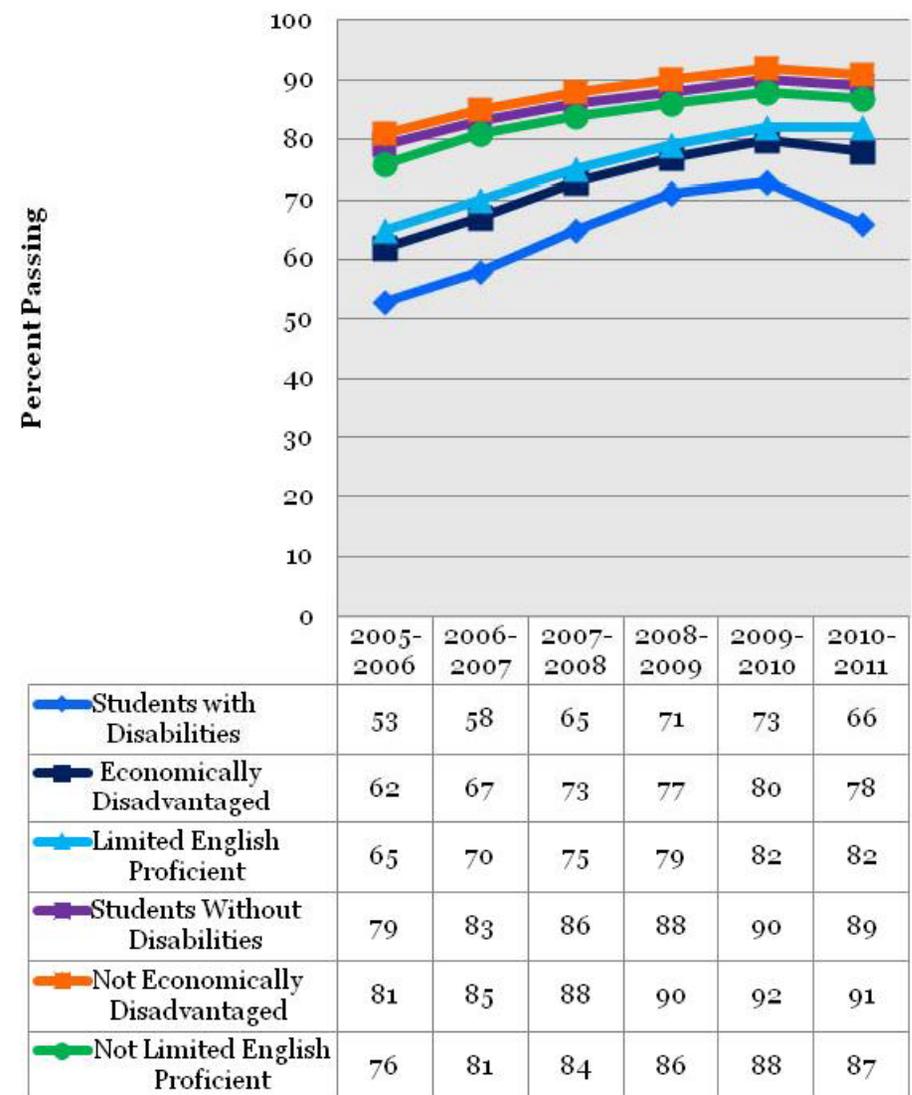
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SOL Pass Rates : English Reading 2005-2006 through 2010-2011



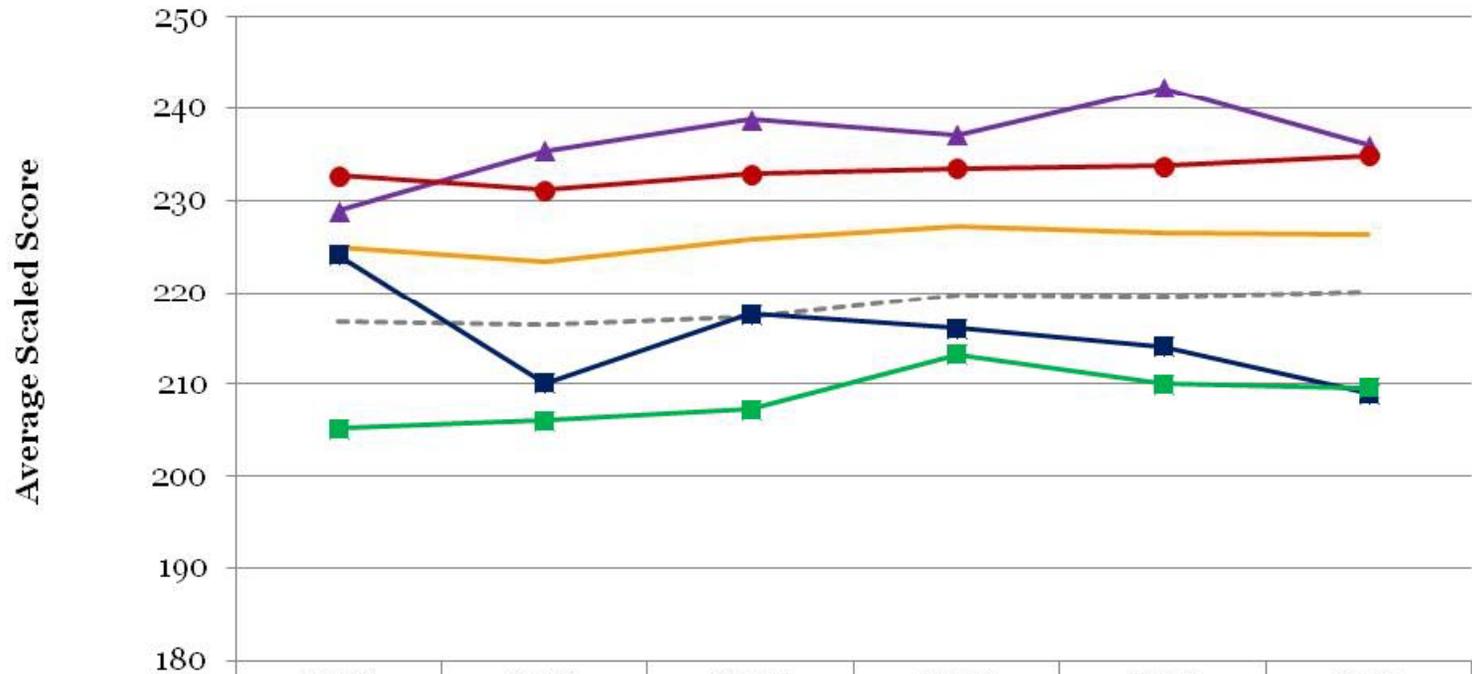
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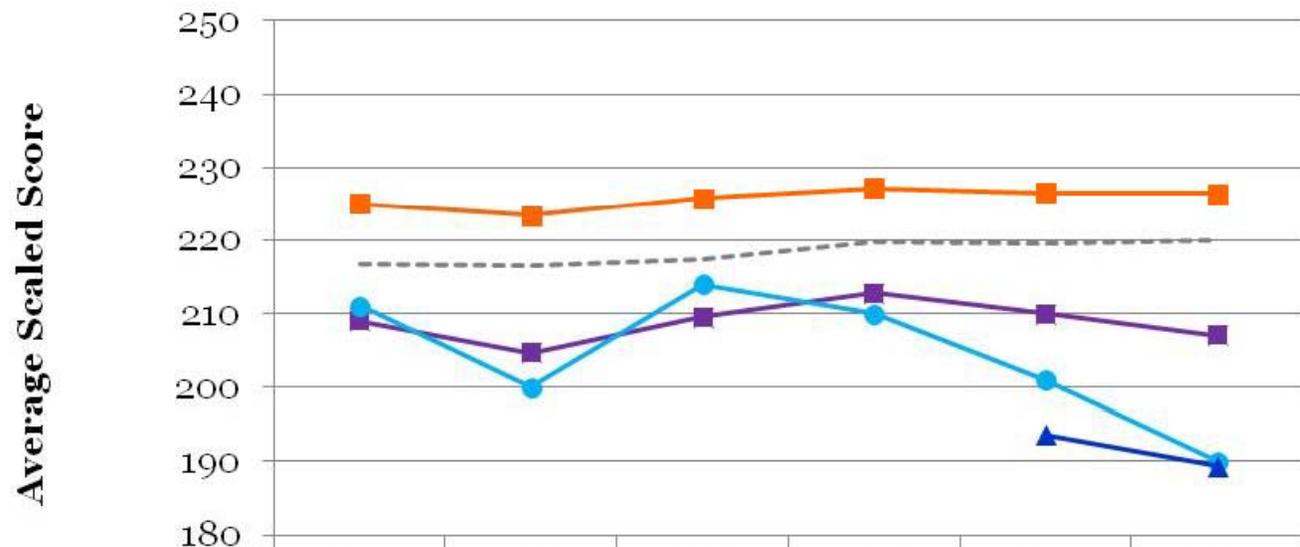
NAEP Averaged Scaled Scores 2002-2011 Reading Grade 4



	2002	2003	2005	2007	2009	2011
---- National Public-All	217	216	217	220	220	220
— VA-All	225	223	226	227	227	226
—▲ VA-Asian	229	235	239	237	242	236
—● VA-White	233	231	233	233	234	235
—■ VA-Hispanic	224	210	218	216	214	209
—■ VA-Black	205	206	207	213	210	210

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress

NAEP Averaged Scaled Scores 2002-2011 Reading Grade 4



—■— VA-All

---- National Public-All

—■— VA-FRPL*

—●— VA-English Language Learners

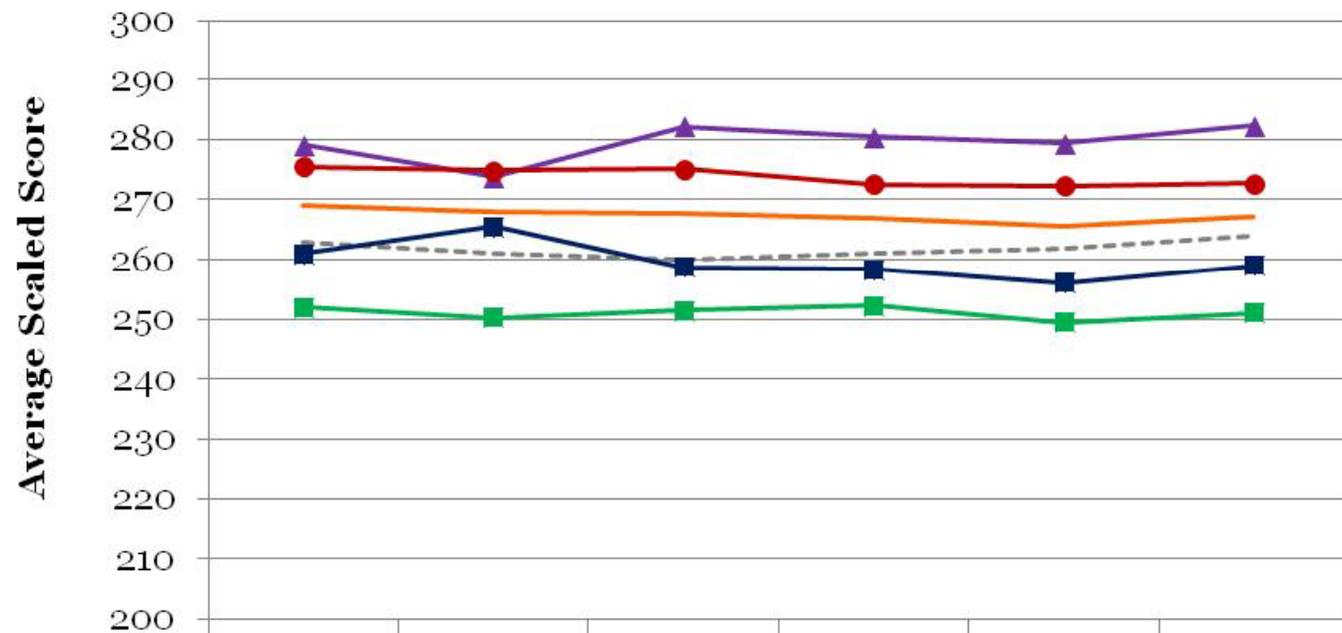
—▲— VA-Students with Disabilities**

*Students eligible for free- or reduced-price lunch

**Prior year data is not comparable

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress

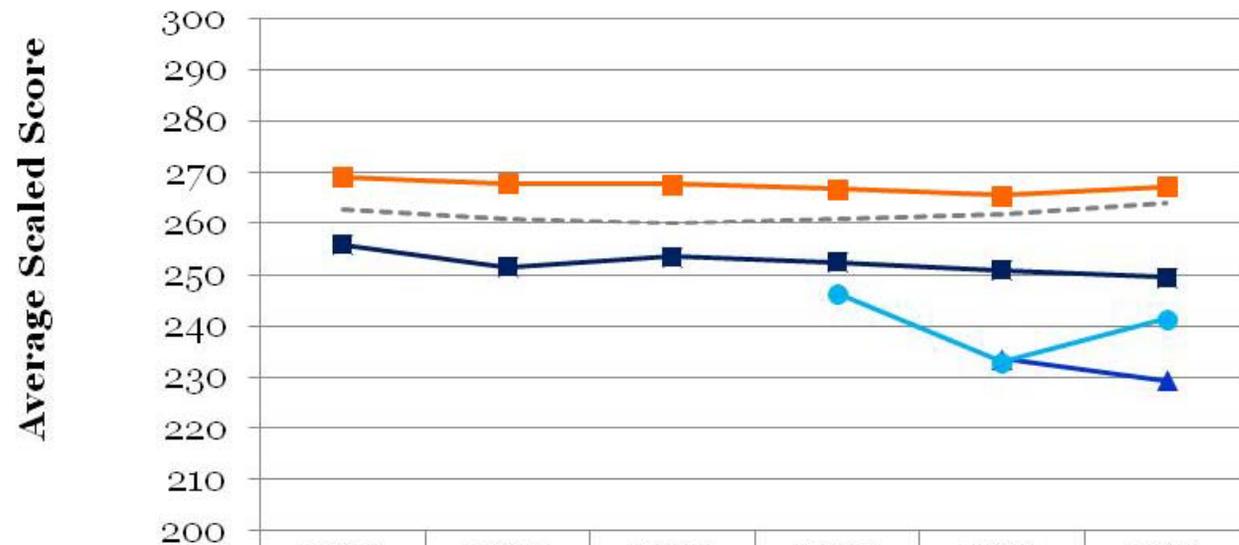
NAEP Averaged Scaled Scores 2002-2011 Reading Grade 8



	2002	2003	2005	2007	2009	2011
---- National Public-All	263	261	260	261	262	264
— VA-All	269	268	268	267	266	267
—▲ VA-Asian	279	274	282	280	279	282
—■ VA-Black	252	250	251	252	250	251
—■ VA-Hispanic	261	266	259	258	256	259
—● VA-White	275	275	275	273	272	273

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress

NAEP Averaged Scaled Scores 2002-2011 Reading Grade 8



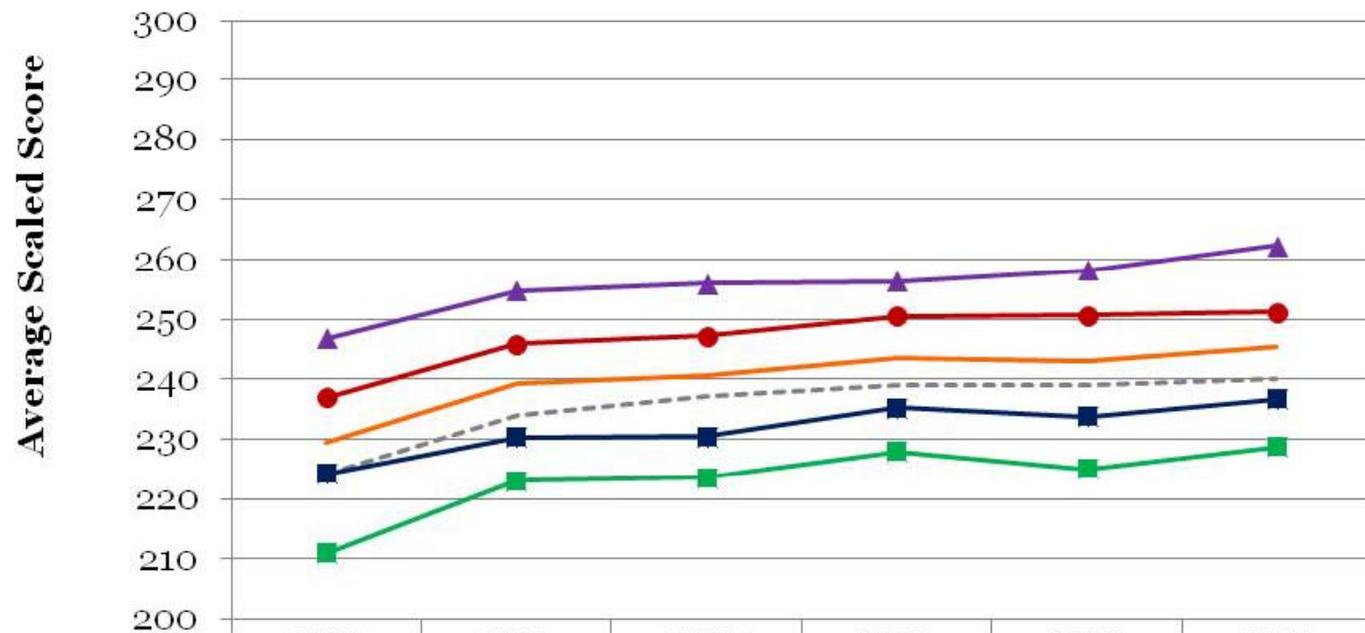
	2002	2003	2005	2007	2009	2011
---- National Public-All	263	261	260	261	262	264
—■— VA-All	269	268	268	267	266	267
—▲— VA-Students with Disabilities**					234	229
—■— VA-FRPL*	256	252	253	252	251	250
—●— VA-English Language Learners				246	233	241

*Students eligible for free- or reduced-price lunch

**Prior year data is not comparable

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress

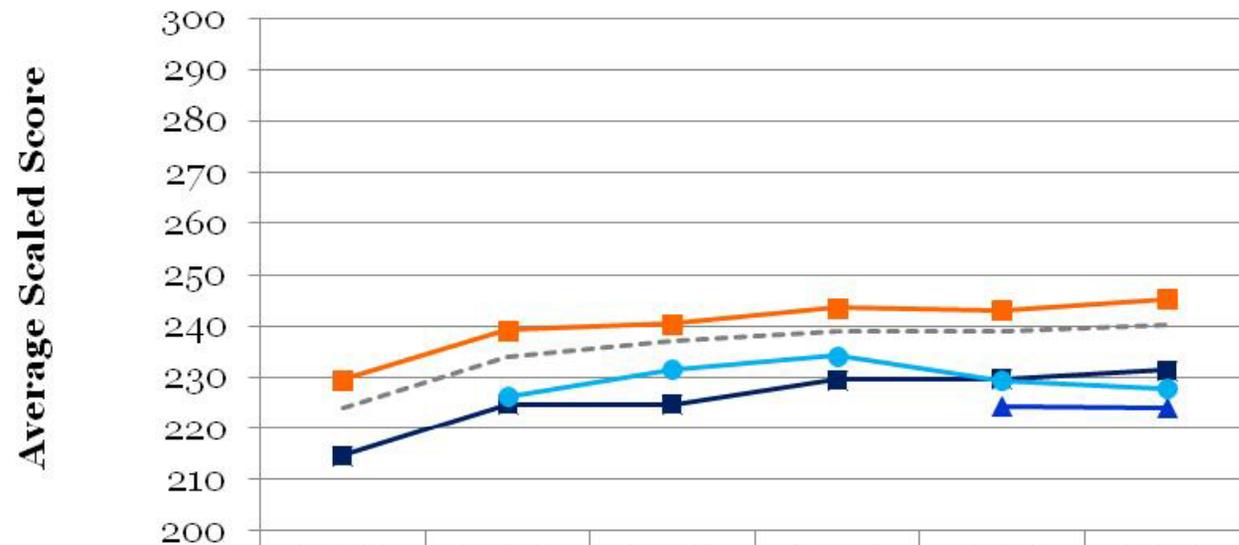
NAEP Averaged Scaled Scores 2002-2011 Mathematics Grade 4



	2000	2003	2005	2007	2009	2011
---- National Public-All	224	234	237	239	239	240
— VA-All	230	239	240	244	243	245
—▲ VA-Asian	247	255	256	256	258	262
—■ VA-Black	211	223	224	228	225	229
—■ VA-Hispanic	224	230	230	235	234	237
—● VA-White	237	246	247	251	251	251

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress

NAEP Averaged Scaled Scores 2002-2011 Mathematics Grade 4



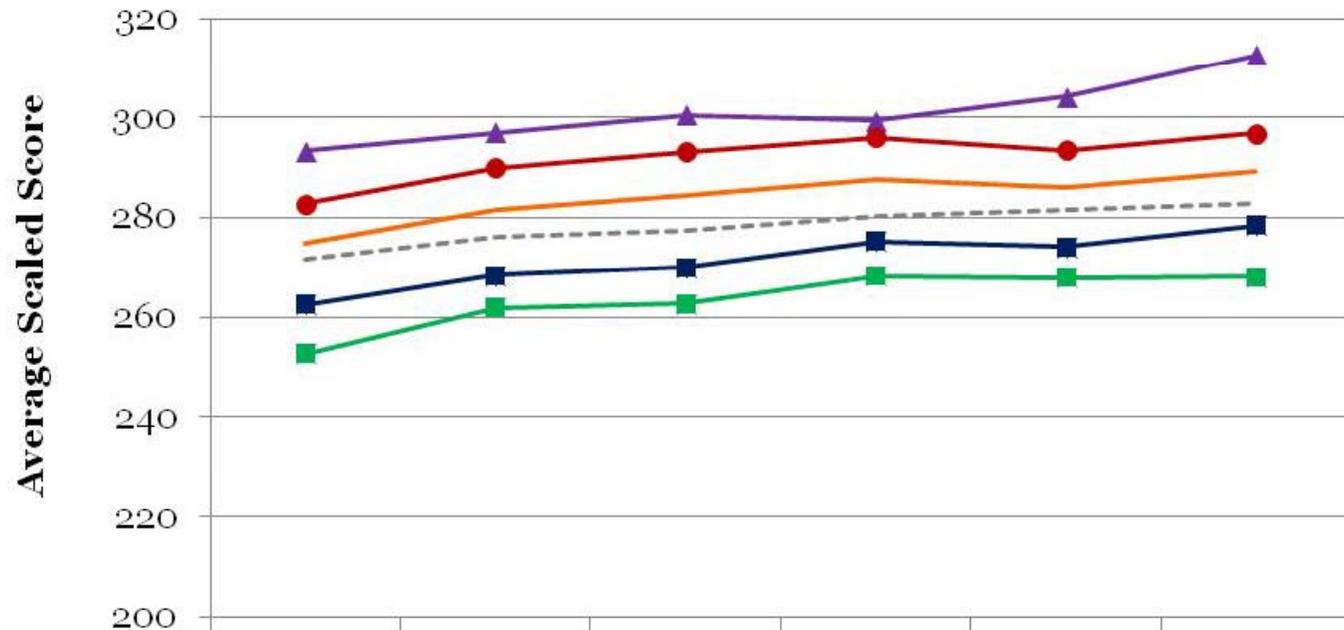
	2000	2003	2005	2007	2009	2011
---- National Public-All	224	234	237	239	239	240
—■— VA-All	230	239	240	244	243	245
—▲— VA-Students with Disabilities**					224	224
—■— VA-FRPL*	215	225	225	230	230	231
—●— VA-English Language Learners		226	232	234	229	228

*Students eligible for free- or reduced-price lunch

**Prior year data is not comparable

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress

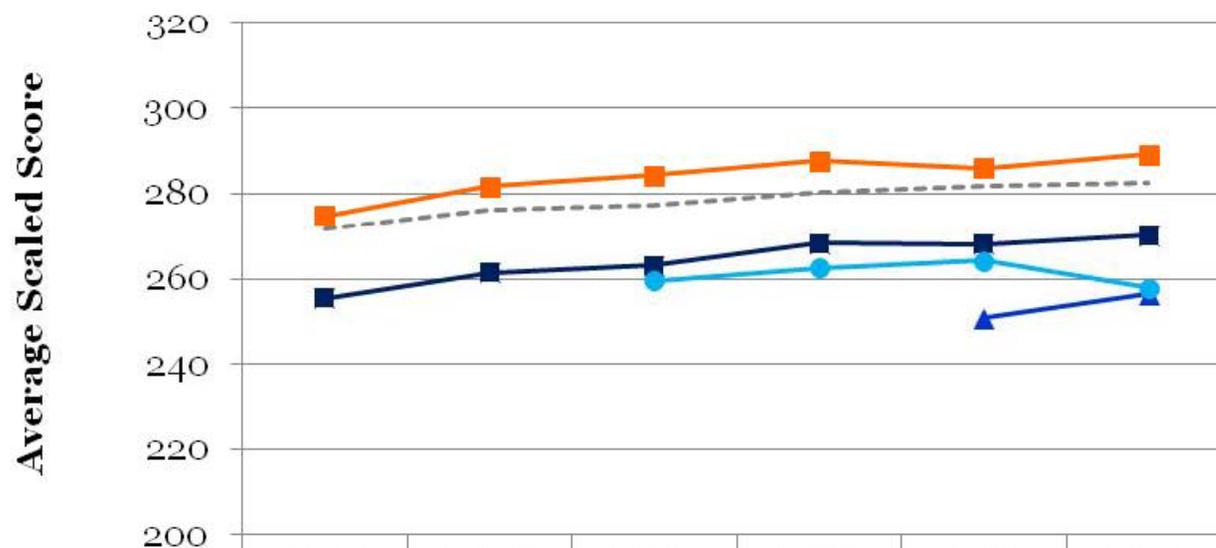
NAEP Averaged Scaled Scores 2002-2011 Mathematics Grade 8



	2000	2003	2005	2007	2009	2011
---- National Public-All	272	276	278	280	282	283
— VA-All	275	282	284	288	286	289
▲ VA-Asian	293	297	300	299	304	313
■ VA-Black	253	262	263	268	268	268
■ VA-Hispanic	263	268	270	275	274	279
● VA-White	283	290	293	296	294	297

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress

NAEP Averaged Scaled Scores 2002-2011 Mathematics Grade 8



	2000	2003	2005	2007	2009	2011
---- National Public-All	272	276	278	280	282	283
—■— VA-All	275	282	284	288	286	289
—▲— VA-Students with Disabilities**					251	256
—■— VA-FRPL*	256	261	263	268	268	270
—●— VA-English Language Learners			260	263	264	258

*Students eligible for free- or reduced-price lunch

**Prior year data is not comparable

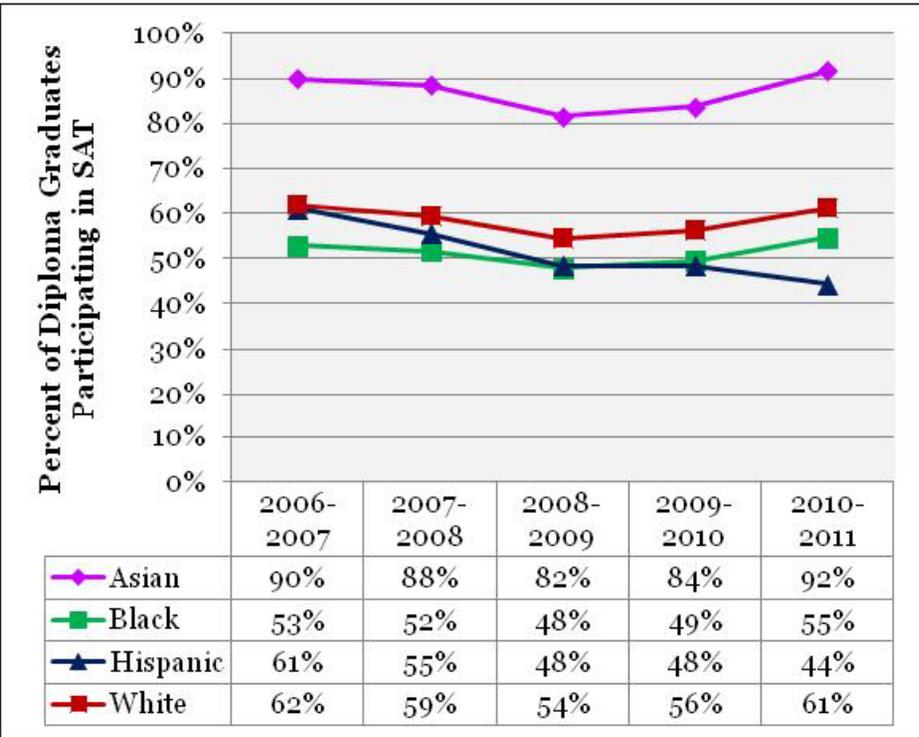
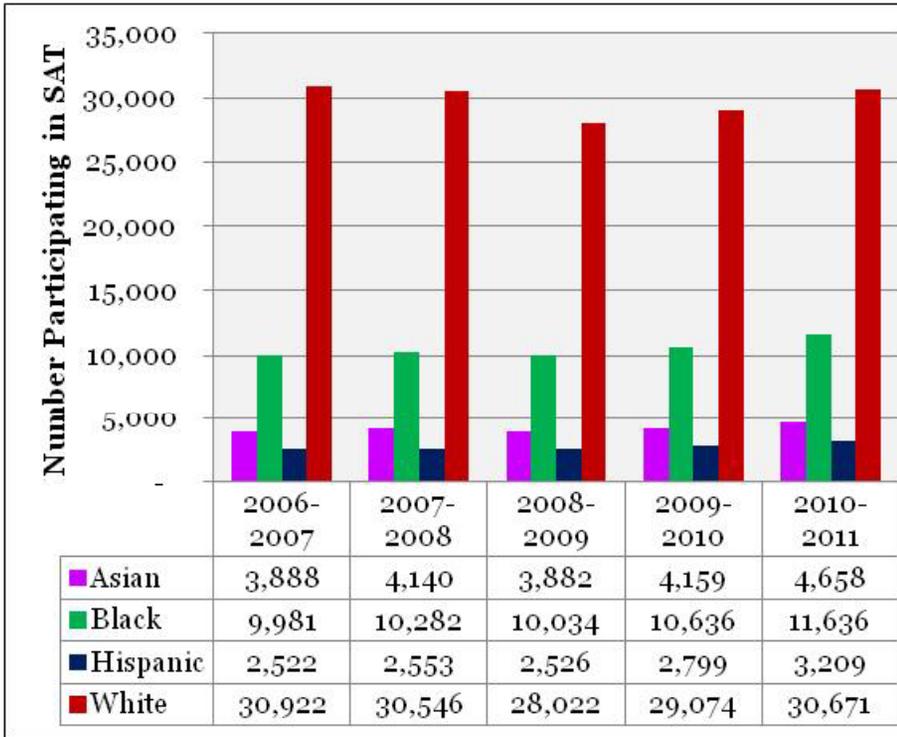
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress

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Number of SAT Test Takers

Percent of Diploma Graduates Taking SAT



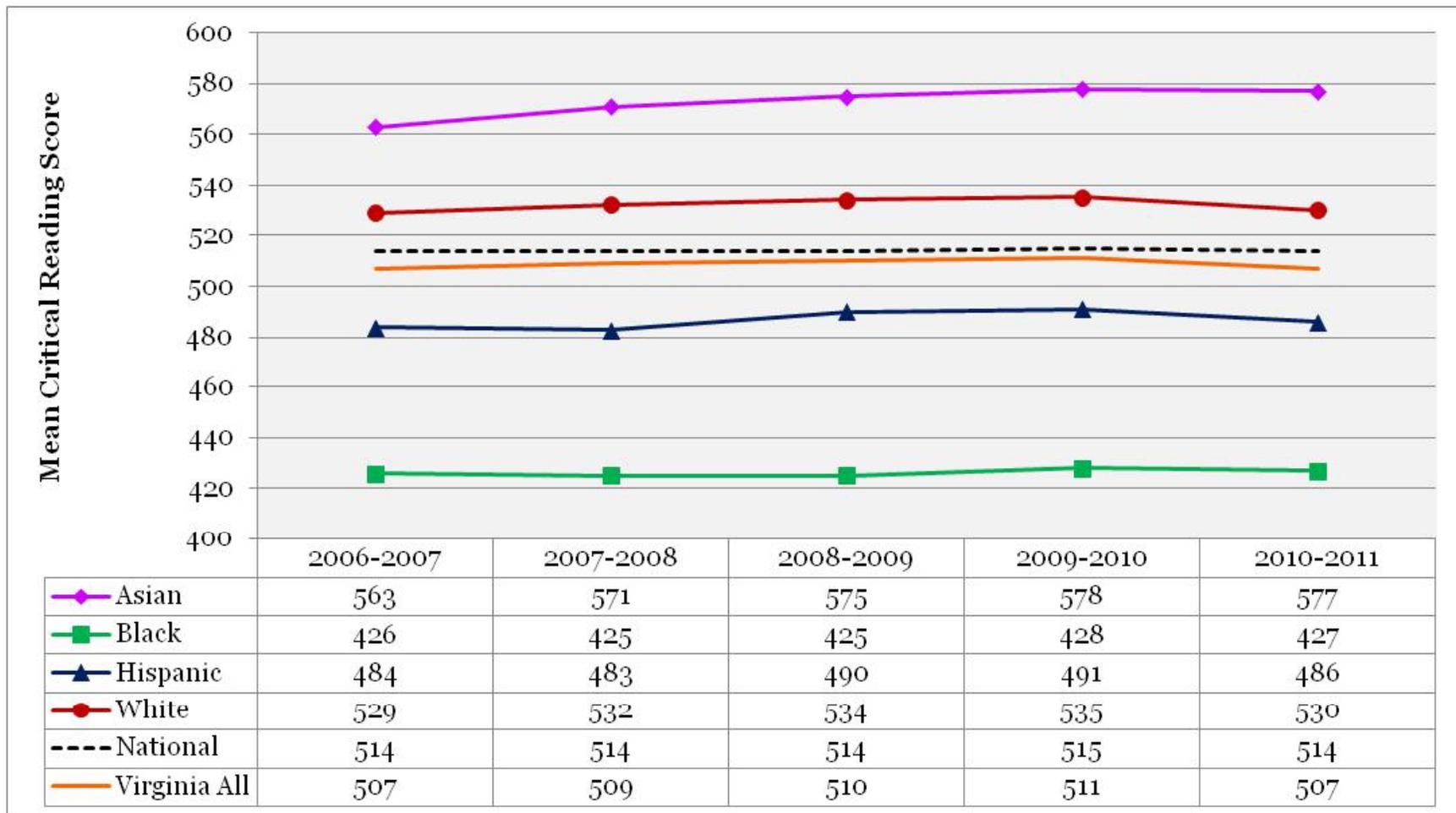
Note: Number of Hispanic Students in Virginia's high schools has increased by 32% or nearly 12,000 students from 2006-2007 through 2010-2011.
 Sources: Student Achievement Report 2010-2011, Virginia Schools. New York: College Board.
 Virginia Department of Education Graduation Statistics

SAT Critical Reading Performance



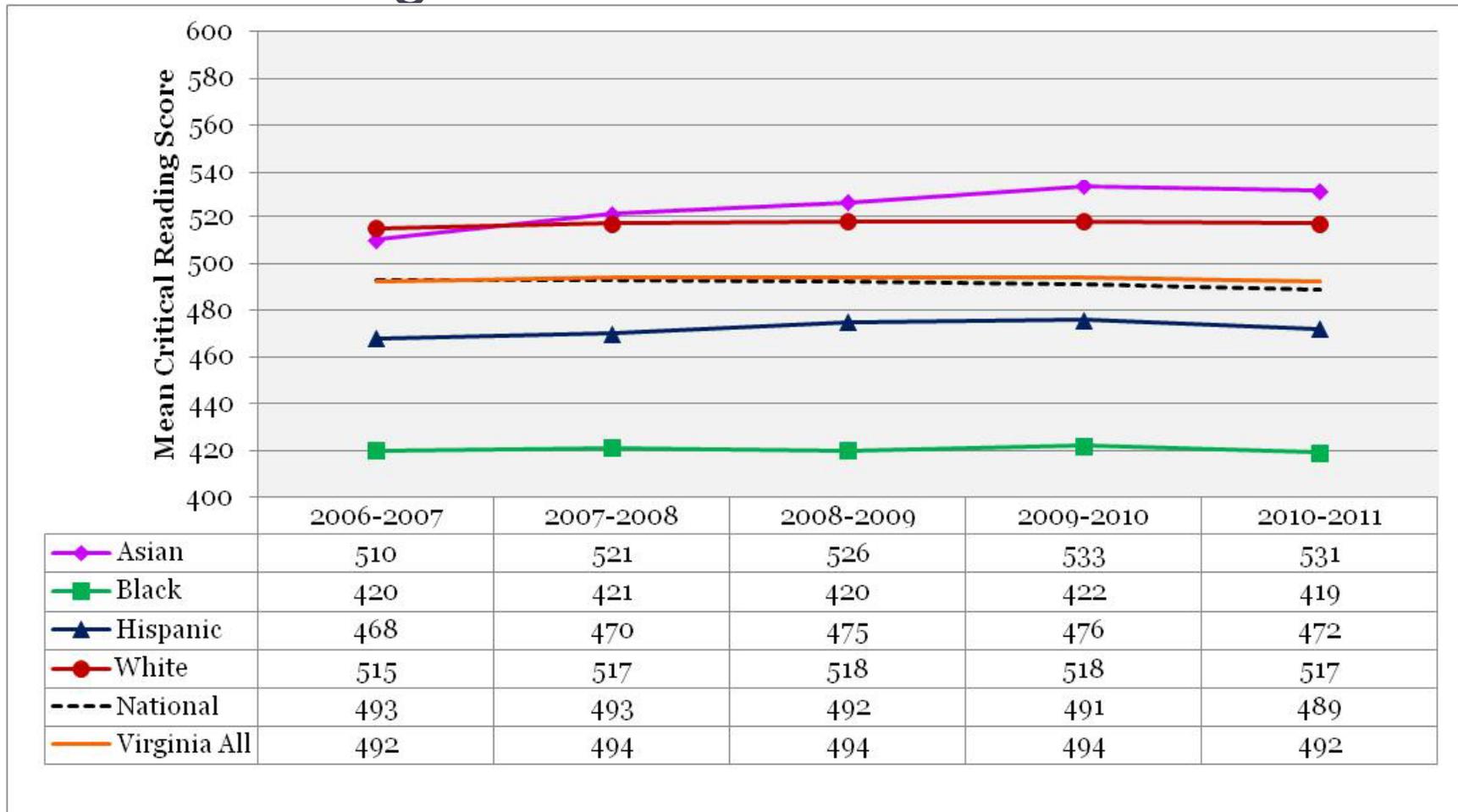
Source: Student Achievement Report 2010-2011, Virginia Schools. New York: College Board.

SAT Mathematics Performance



Source: Student Achievement Report 2010-2011, Virginia Schools. New York: College Board.

SAT Writing Performance

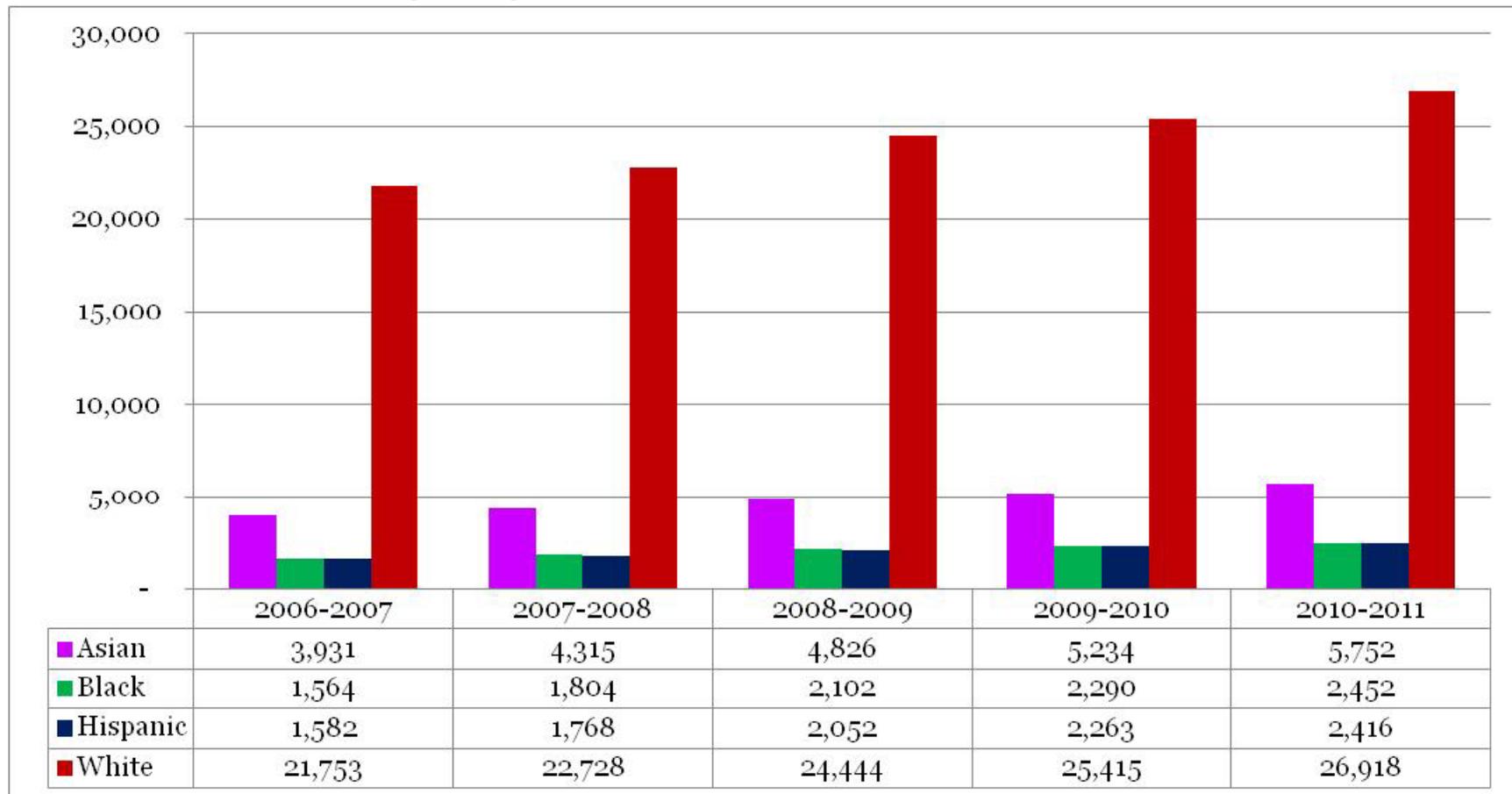


Source: Student Achievement Report 2010-2011, Virginia Schools. New York: College Board.

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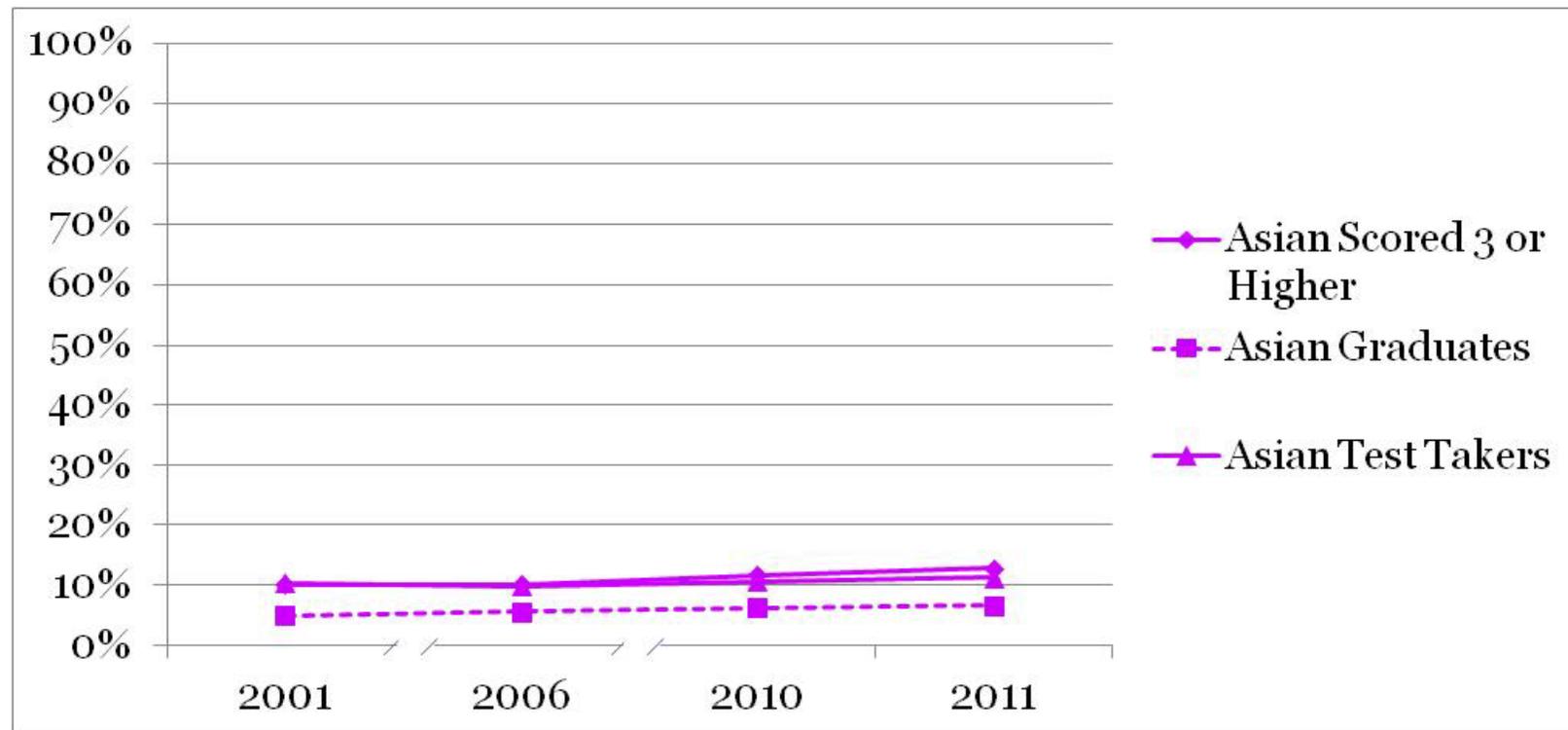
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 - Nearly 26 percent of Virginia's 2011 high school graduates earned a 3 or higher on an AP Exam during high school
 - Only two states—Maryland and New York—have a larger percentage of students earning qualifying scores on AP Exams.

Number of AP Exam Takers Earning a Score of 3, 4, or 5



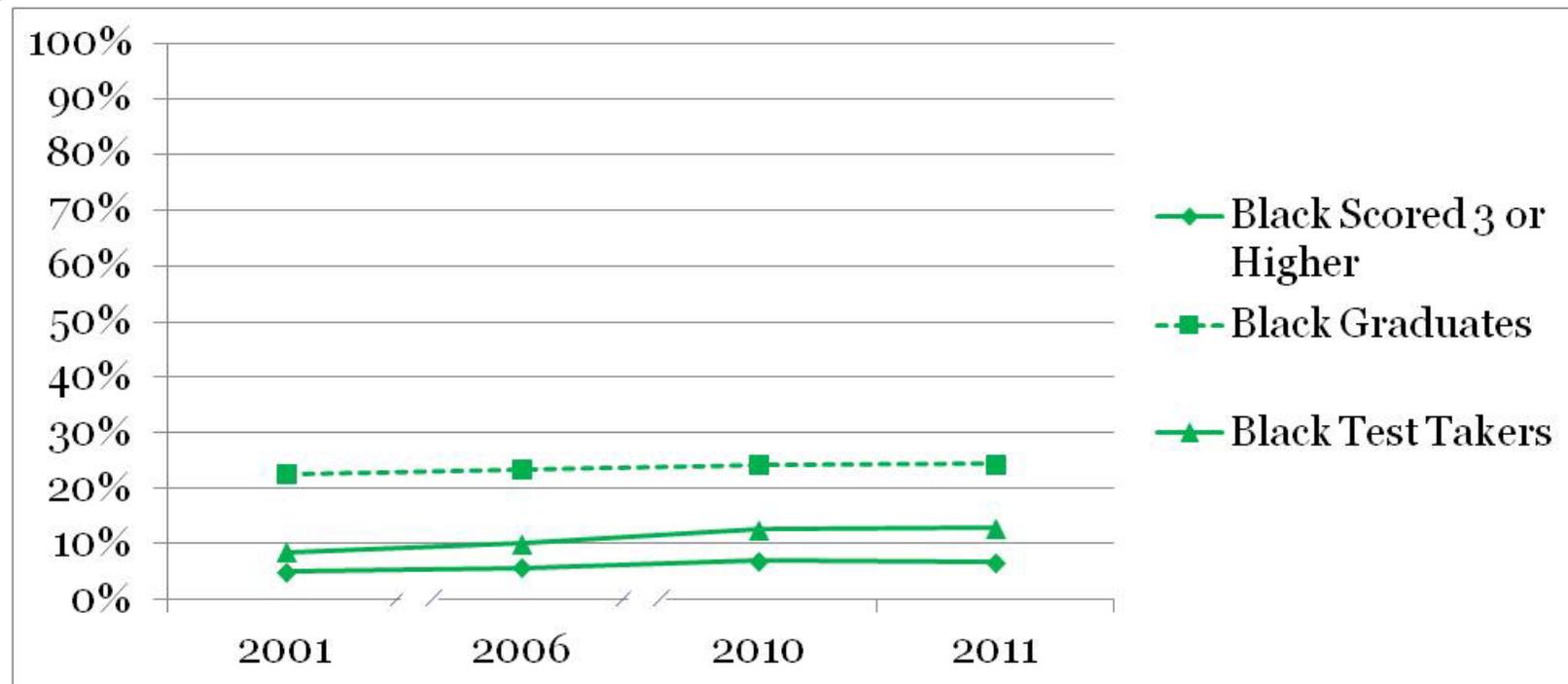
Source: Student Achievement Report 2010-2011, Virginia Schools. New York: College Board.

How representative are test takers compared to the population of high school graduates?



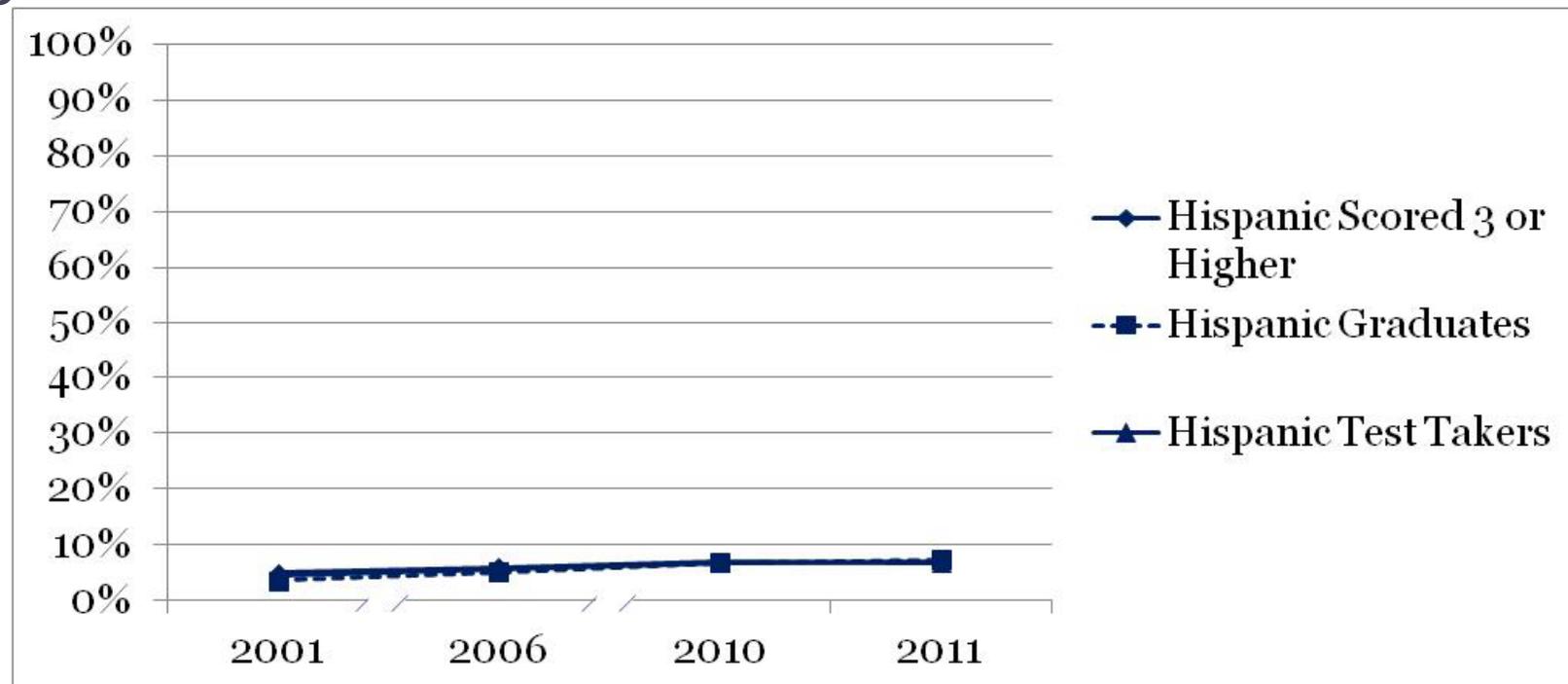
Source: The 8th Annual AP Report to the Nation: State Supplement, Virginia (2012). New York: College Board.
Notes: College Board graduation data that are estimates based on information provided by the Western Interstate Commission for Higher Education (2008). Data may include students who graduated from Virginia's private high schools.

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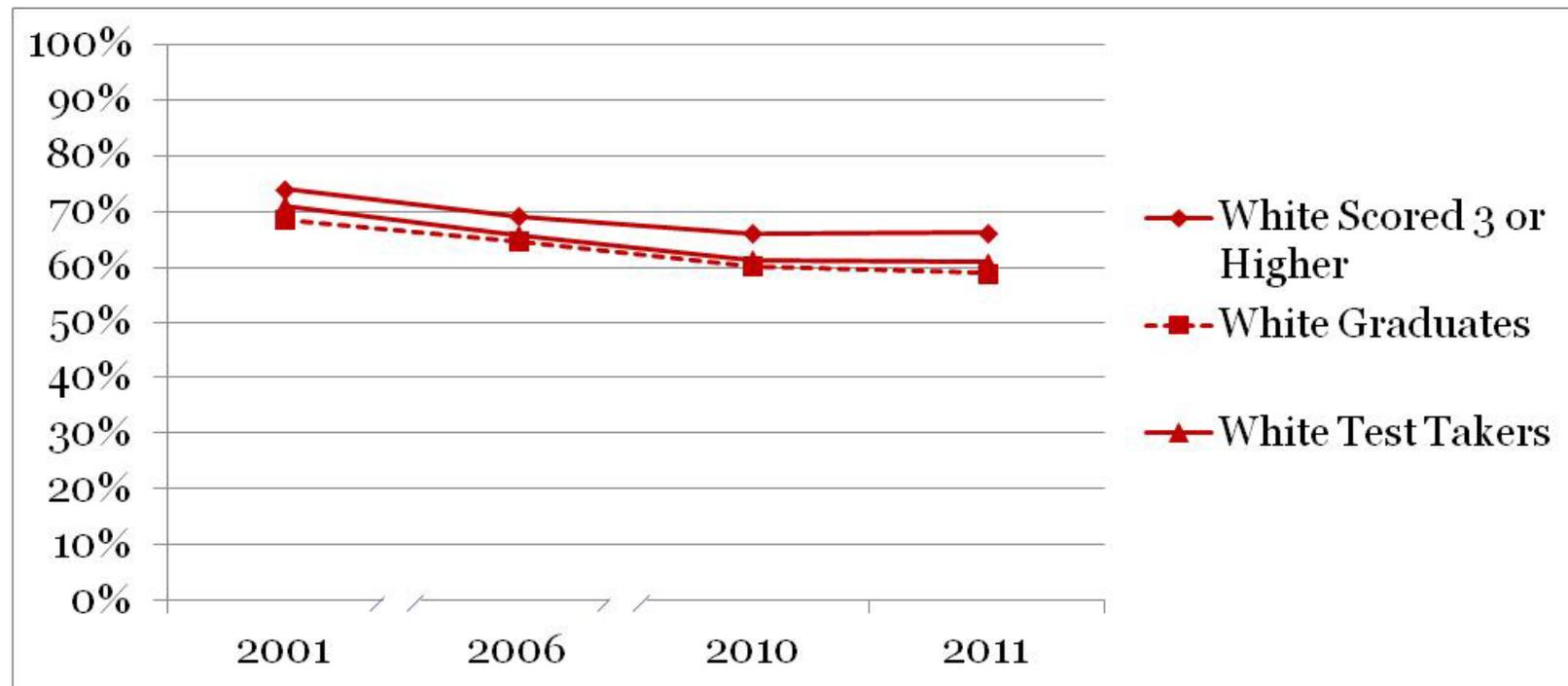
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How representative are test takers compared to the population of high school graduates?*



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Common themes across data types

- White and Asian students outperform other groups.
- Students with disabilities have the lowest performance across data types.
- Black/African American students are among the lowest performing students when compared to students of other race/ethnicity groups.

Common themes across data types

- In reading, SOL scores have increased over time while Virginia's NAEP scores have remained flat or decreased for some student groups. Nationally, reading performance has improved.
- In mathematics, SOL and NAEP performance have improved over time in Virginia for all students and for most groups. This is consistent with national trends.

Common themes across data types

- AP participation and success—as defined by the College Board—suggests:
 - Hispanic students participating and succeeding on AP Exams are similarly represented among AP Exam takers, relative to the population of Hispanic graduates.
 - African American students participating and succeeding on AP Exams are underrepresented relative to the population of African American graduates.
 - Asian and White students participating and succeeding on AP Exams are overrepresented relative to the population of Asian and White graduates.
- Student performance on SAT has increased over time, even with the number of Virginia students participating in SAT testing increasing across student groups.

Contact Information

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