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## Who Stays? Who Leaves? An Analysis of Higher Achieving Hartford Public Schools Students

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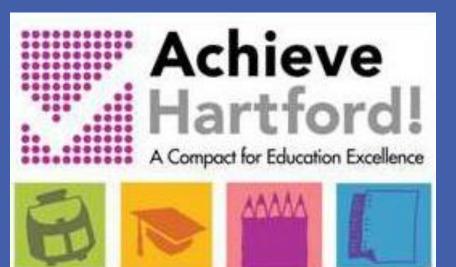
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# Who Stays? Who Leaves?

# An Analysis of Higher-Achieving Hartford Public School Students



By Evan Sternberg and Ben Rudy

Faculty Advisor: Diane Zannoni Community Partner: Achieve Hartford!

#### **Abstract**

This project seeks to follow Hartford students through the Hartford Public Schools (HPS). Our analysis focuses on two simple questions:

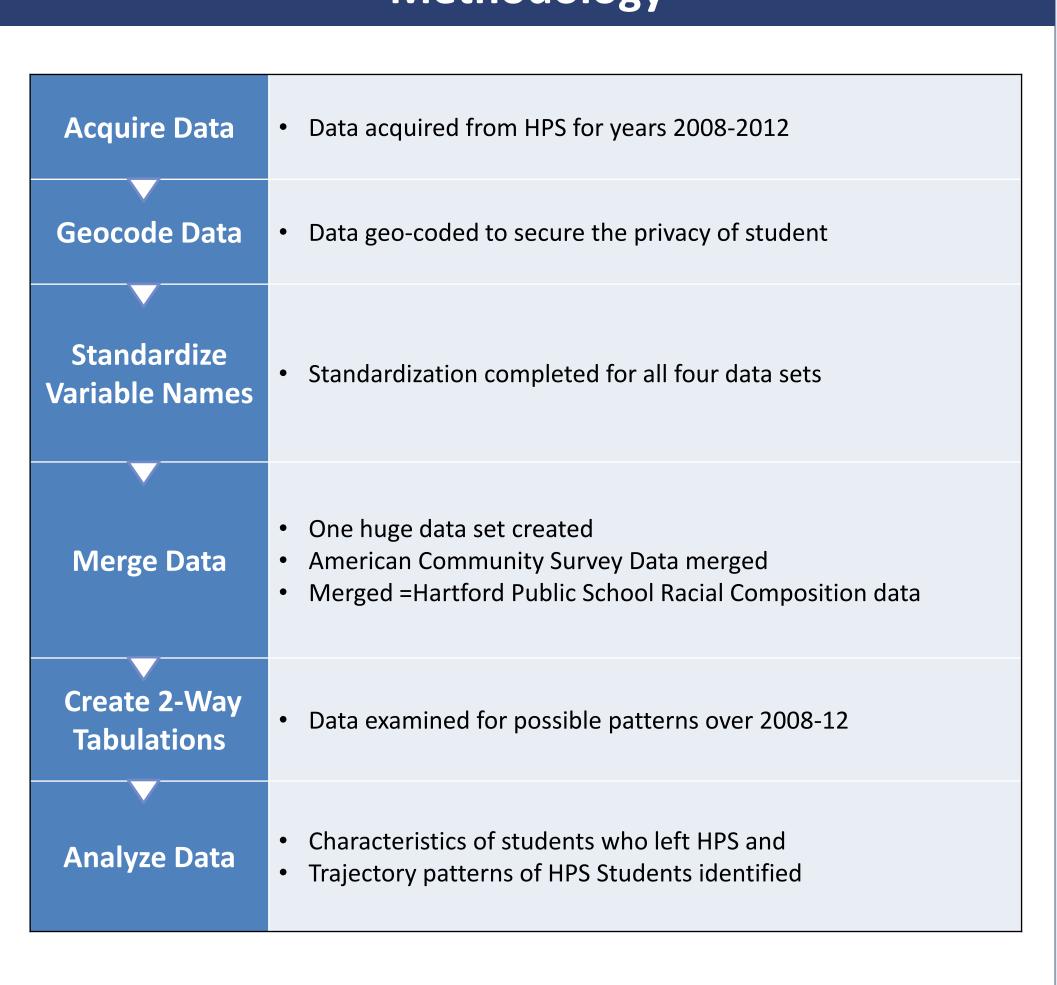
- Among the Hartford residents attending HPS, what are the characteristics of the high-achieving students compared to the students who are not high-achieving?
- Among Hartford residents attending HPS, what are the characteristics of those who leave compared to those who stay?

Our study includes all Hartford residents grades 3 through 8 from 2008/09 to 2011/12. We conclude that compared to those students who stay, students who leave the HPS system have different school and resident zones, ethnicities, grade levels, and attend schools that had comparable test score rankings. However, high-achievement does not distinguish those who leave from those who stay.

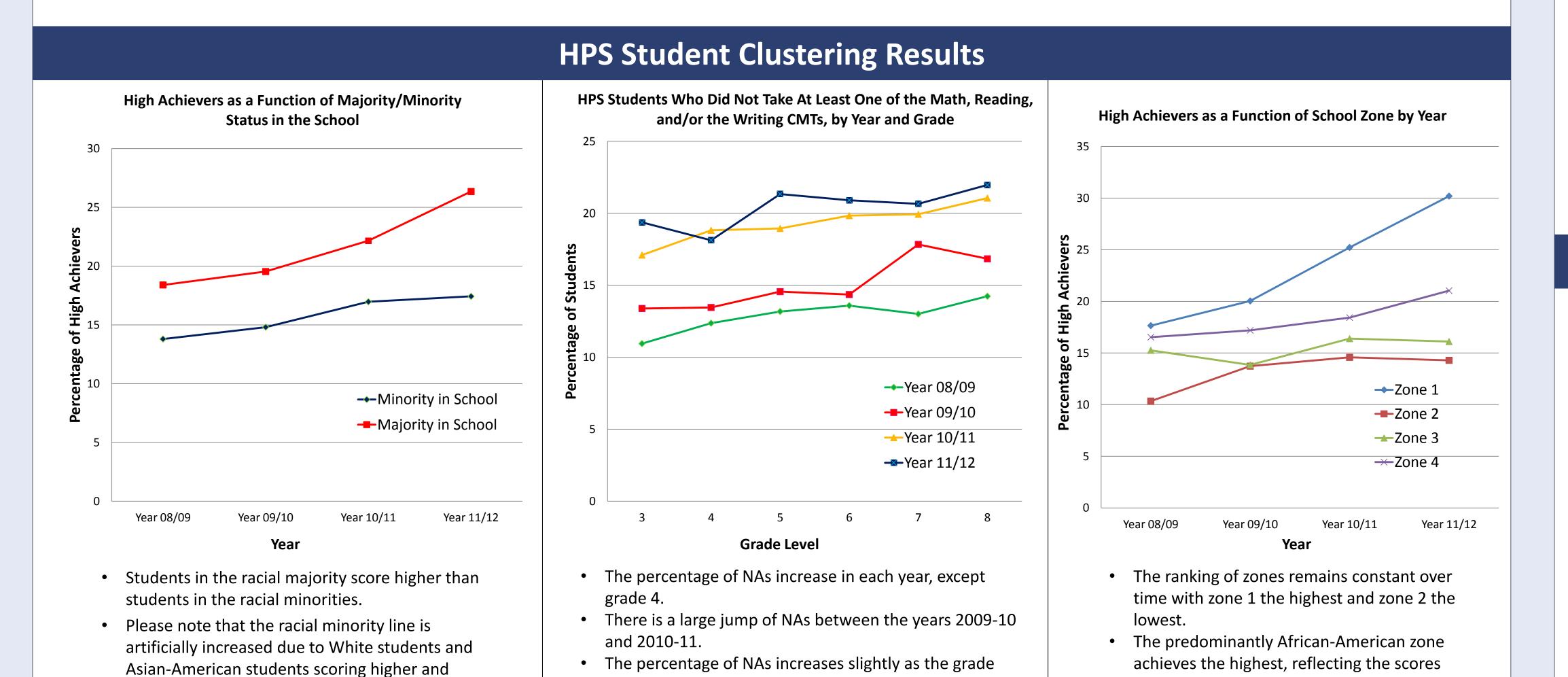
#### **Definition of Variables**

- Hartford Public Schools: Both district and inter-district magnet schools operated by HPS
- **CMT:** Connecticut Mastery Test
- Hartford resident: An HPS student who resides in the city of Hartford
- Leavers: Students who appear in the HPS dataset grades 3-8, then disappear for any reason (moved, enrolled in non-HPS magnets, promoted to 9<sup>th</sup> grade, etc.)
- High-Achievers (HA): Grade 3-8 students whose composite CMT score was at or above goal level
- NAs: Students who did not take at least one of the CMT exams
- Racial Majority: Students who are in the racial majority at their school (e.g., a black student in a predominantly black school)

#### Methodology



#### **HPS Student Trajectory Results** 08/09 11/12 09/10 10/11 2353 **KEY** (27.77%) Students leaving HPS system 12.49% HA 8473 Total Students Students in HPS system 13.16% HA 6120 2158 (72.23%) Students joining HPS system (26.26%)13.99% HA 8217 Total Students 13.76% HA 6059 2335 (73.74%) (28.55%) 2097 13.68% HA 13.32% HA 8179 Total Students 5844 14.97% HA (71.45%) 2120 15.62% HA This Flow Chart shows that in three successive 7999 periods, the percentage of high-achievers (HA) is very similar between the group of leavers and 15.63% HA stayers. Thus, being a high-achiever is an insignificant factor in explaining a Hartford Public School student's decision to leave. 2155



level increases

always being in the racial minority.

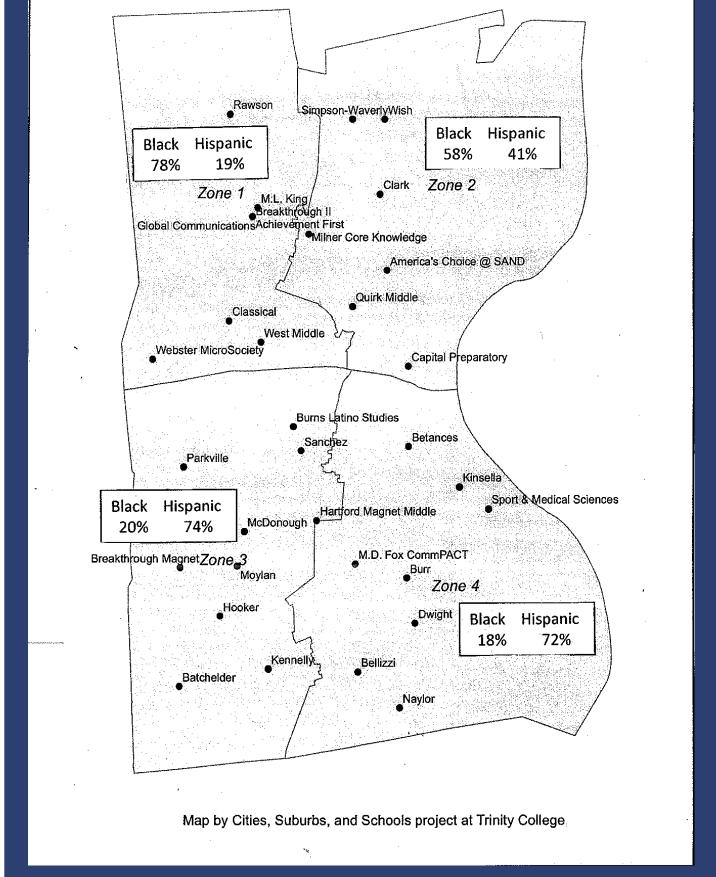
attained by ethnicity

The mixed ethnicity of zone 2 contributes to

possibly explaining the low scores

more members being in the racial minority,

# Map of Hartford School Zones



### Significant Differences of Stayers and Leavers

	2008-09	2009-10	2010-11
School Zone	✓	✓	✓
Residence Zone	✓	✓	✓
Ethnicity	✓	✓	✓
ELL	✓	✓	✓
Grade	✓	✓	✓
Majority/Minority			
Hispanic	✓	$\checkmark$	$\checkmark$
African-American	✓	✓	✓
Goal Level of School	✓	✓	✓
Gain Level of School	✓	✓	✓
Achievement Level			
High-Achieving			
Family's Income			

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