

Table 6A. Results from structural equation models (with school mobility).

Independent variable		Model 1	Model 2
		beta (s.e.)	beta (s.e.)
		Dependent variable I: suspension days	
Suspension days	6th->7th	0.535*** (0.002)	0.416*** (0.005)
	7th->8th	0.442*** (0.001)	0.424*** (0.004)
ELA score	6th->7th	-0.095*** (0.005)	-0.094*** (0.005)
	7th->8th	-0.109*** (0.006)	-0.107*** (0.006)
Math score	6th->7th	-0.109*** (0.005)	-0.114*** (0.005)
	7th->8th	-0.130*** (0.006)	-0.143*** (0.006)
ELA score \times Suspension days	6th->7th		-0.007** (0.003)
	7th->8th		-0.002 (0.002)
Math score \times Suspension days	6th->7th		0.006* (0.003)
	7th->8th		0.017*** (0.002)
Staying the same school (1 = Yes)	7th	-0.084*** (0.007)	-0.086*** (0.007)
	8th	-0.230*** (0.013)	-0.233*** (0.013)
Female (1 = Yes)	7th	-0.224*** (0.007)	-0.231*** (0.007)
	8th	-0.220*** (0.008)	-0.210*** (0.008)
Female \times Suspension days	7th		0.007 (0.005)
	8th		-0.024*** (0.003)
Black American (1 = Yes)	7th	0.689*** (0.013)	0.668*** (0.013)
	8th	0.506*** (0.013)	0.478*** (0.014)
Black American \times Suspension days	7th		0.023*** (0.004)
	8th		0.026*** (0.003)
Latino (1 = Yes)	7th	0.025	0.026

		(0.016)	(0.016)
	8th	0.047** (0.017)	0.043* (0.017)
Latino × Suspension days	7th		0.011 (0.007)
	8th		0.010 (0.005)
American Indian (1 = Yes)	7th	-0.171* (0.072)	-0.050 (0.075)
	8th	-0.106 (0.076)	-0.096 (0.079)
American Indian × Suspension days	7th		-0.227*** (0.040)
	8th		0.011 (0.032)
Asian American (1 = Yes)	7th	-0.305*** (0.033)	-0.252*** (0.033)
	8th	-0.232*** (0.035)	-0.155*** (0.035)
Asian American × Suspension days	7th		-0.279*** (0.034)
	8th		-0.186*** (0.027)
Other race (1 = Yes)	7th	0.215*** (0.018)	0.177*** (0.018)
	8th	0.171*** (0.019)	0.111*** (0.019)
Other race × Suspension days	7th		0.073*** (0.008)
	8th		0.069*** (0.006)
Free and reduced-lunch plan (1 = Yes)	7th	0.344*** (0.008)	0.311*** (0.008)
	8th	0.314*** (0.008)	0.301*** (0.009)
Free and reduced-lunch plan × Suspension days	7th		0.128*** (0.005)
	8th		0.029*** (0.004)
Limited English proficiency (1 = Yes)	7th	-0.139*** (0.021)	-0.135*** (0.021)
	8th	-0.173*** (0.021)	-0.171*** (0.021)
Special education (1 = Yes)	7th	0.060*** (0.013)	0.061*** (0.013)

	8th	0.087*** (0.013)	0.088*** (0.013)
Charter school (1 = Yes)	7th	-0.015 (0.025)	-0.011 (0.025)
	8th	-0.087*** (0.026)	-0.092*** (0.026)
Magnet school (1 = Yes)	7th	-0.061 (0.033)	-0.060 (0.033)
	8th	-0.245*** (0.036)	-0.244*** (0.036)
Catholic school (1 = Yes)	7th	-0.100*** (0.017)	-0.111*** (0.017)
	8th	-0.155*** (0.018)	-0.157*** (0.018)
Other private school (1 = Yes)	7th	-0.134*** (0.027)	-0.145*** (0.027)
	8th	-0.219*** (0.028)	-0.222*** (0.028)
Other public school (1 = Yes)	7th	1.147*** (0.125)	1.110*** (0.125)
	8th	0.692*** (0.121)	0.685*** (0.121)
School total enrollment (in 1,000 students)	7th	0.214*** (0.011)	0.214*** (0.011)
	8th	0.159*** (0.011)	0.161*** (0.011)
Constant	7th	0.197*** (0.011)	0.222*** (0.011)
	8th	0.445*** (0.017)	0.452*** (0.017)
Independent variable		Dependent variable II: ELA score	
ELA score	6th->7th	0.538*** (0.001)	0.540*** (0.001)
	7th->8th	0.524*** (0.001)	0.530*** (0.001)
Math score	6th->7th	0.229*** (0.001)	0.229*** (0.001)
	7th->8th	0.237*** (0.001)	0.236*** (0.001)
Suspension days	6th->7th	-0.008*** (0.000)	-0.016*** (0.001)
	7th->8th	-0.009*** (0.000)	-0.022*** (0.001)
ELA score × Suspension days	6th->7th		-0.005*** (0.001)

	7th->8th		-0.011*** (0.000)
Staying the same school (1 = Yes)	7th	0.064*** (0.002)	0.064*** (0.002)
	8th	0.057*** (0.003)	0.055*** (0.003)
Female (1 = Yes)	7th	0.111*** (0.002)	0.111*** (0.002)
	8th	0.144*** (0.002)	0.144*** (0.002)
Female × Suspension days	7th		-0.001 (0.001)
	8th		-0.004*** (0.001)
Black American (1 = Yes)	7th	-0.049*** (0.003)	-0.050*** (0.003)
	8th	-0.048*** (0.003)	-0.051*** (0.003)
Black American × Suspension days	7th		0.002 (0.001)
	8th		0.003*** (0.001)
Latino (1 = Yes)	7th	0.002 (0.004)	0.002 (0.004)
	8th	-0.005 (0.004)	-0.005 (0.004)
Latino × Suspension days	7th		0.002 (0.002)
	8th		0.002 (0.001)
American Indian (1 = Yes)	7th	-0.010 (0.018)	-0.006 (0.019)
	8th	-0.030 (0.019)	-0.011 (0.019)
American Indian × Suspension days	7th		-0.009 (0.010)
	8th		-0.031*** (0.008)
Asian American (1 = Yes)	7th	0.063*** (0.008)	0.061*** (0.008)
	8th	0.075*** (0.009)	0.069*** (0.009)
Asian American × Suspension days	7th		0.010 (0.009)
	8th		0.002

			(0.007)
Other race (1 = Yes)	7th	0.008 (0.004)	0.009 (0.005)
	8th	0.006 (0.005)	0.010* (0.005)
Other race × Suspension days	7th		0.000 (0.002)
	8th		-0.002 (0.001)
Free and reduced-lunch plan (1 = Yes)	7th	-0.092*** (0.002)	-0.092*** (0.002)
	8th	-0.102*** (0.002)	-0.101*** (0.002)
Free and reduced-lunch plan × Suspension days	7th		0.004** (0.001)
	8th		0.005*** (0.001)
Limited English proficiency (1 = Yes)	7th	-0.040*** (0.005)	-0.040*** (0.005)
	8th	-0.041*** (0.005)	-0.041*** (0.005)
Special education (1 = Yes)	7th	-0.160*** (0.003)	-0.161*** (0.003)
	8th	-0.207*** (0.003)	-0.209*** (0.003)
Charter school (1 = Yes)	7th	-0.014* (0.006)	-0.013* (0.006)
	8th	-0.007 (0.006)	-0.004 (0.006)
Magnet school (1 = Yes)	7th	-0.107*** (0.008)	-0.107*** (0.008)
	8th	-0.051*** (0.009)	-0.051*** (0.009)
Catholic school (1 = Yes)	7th	0.111*** (0.004)	0.110*** (0.004)
	8th	0.108*** (0.004)	0.105*** (0.004)
Other private school (1 = Yes)	7th	0.055*** (0.007)	0.055*** (0.007)
	8th	0.044*** (0.007)	0.041*** (0.007)
Other public school (1 = Yes)	7th	-0.147*** (0.031)	-0.150*** (0.031)
	8th	-0.059 (0.030)	-0.081** (0.030)

School total enrollment (in 1,000 students)	7th	0.012*** (0.003)	0.012*** (0.003)
	8th	0.004 (0.003)	0.003 (0.003)
Constant	7th	-0.018*** (0.003)	-0.017*** (0.003)
	8th	-0.043*** (0.004)	-0.041*** (0.004)
Independent variable		Dependent variable III: math score	
ELA score	6th->7th	0.175*** (0.001)	0.175*** (0.001)
	7th->8th	0.147*** (0.001)	0.145*** (0.001)
Math score	6th->7th	0.642*** (0.001)	0.644*** (0.001)
	7th->8th	0.638*** (0.001)	0.645*** (0.001)
Suspension days	6th->7th	-0.010*** (0.000)	-0.014*** (0.001)
	7th->8th	-0.012*** (0.000)	-0.023*** (0.001)
Math score \times Suspension days	6th->7th		-0.006*** (0.000)
	7th->8th		-0.011*** (0.000)
Staying the same school (1 = Yes)	7th	0.050*** (0.002)	0.050*** (0.002)
	8th	0.074*** (0.003)	0.073*** (0.003)
Female (1 = Yes)	7th	-0.051*** (0.002)	-0.050*** (0.002)
	8th	-0.033*** (0.002)	-0.030*** (0.002)
Female \times Suspension days	7th		-0.004*** (0.001)
	8th		-0.007*** (0.001)
Black American (1 = Yes)	7th	-0.089*** (0.003)	-0.091*** (0.003)
	8th	-0.088*** (0.003)	-0.087*** (0.003)
Black American \times Suspension days	7th		0.001 (0.001)
	8th		0.000 (0.001)
Latino (1 = Yes)	7th	-0.012***	-0.012**

		(0.004)	(0.004)
	8th	-0.014** (0.004)	-0.012** (0.004)
Latino × Suspension days	7th		-0.001 (0.002)
	8th		-0.000 (0.001)
American Indian (1 = Yes)	7th	0.004 (0.017)	0.003 (0.017)
	8th	0.015 (0.018)	0.028 (0.018)
American Indian × Suspension days	7th		0.000 (0.009)
	8th		-0.022** (0.007)
Asian American (1 = Yes)	7th	0.153*** (0.007)	0.151*** (0.008)
	8th	0.177*** (0.008)	0.171*** (0.008)
Asian American × Suspension days	7th		-0.005 (0.008)
	8th		-0.004 (0.006)
Other race (1 = Yes)	7th	-0.023*** (0.004)	-0.022*** (0.004)
	8th	-0.028*** (0.004)	-0.025*** (0.004)
Other race × Suspension days	7th		-0.001 (0.002)
	8th		-0.001 (0.001)
Free and reduced-lunch plan (1 = Yes)	7th	-0.078*** (0.002)	-0.077*** (0.002)
	8th	-0.088*** (0.002)	-0.087*** (0.002)
Free and reduced-lunch plan × Suspension days	7th		0.000 (0.001)
	8th		0.005*** (0.001)
Limited English proficiency (1 = Yes)	7th	0.025*** (0.005)	0.024*** (0.005)
	8th	-0.015** (0.005)	-0.016*** (0.005)
Special education (1 = Yes)	7th	-0.035*** (0.003)	-0.035*** (0.003)

	8th	-0.145*** (0.003)	-0.146*** (0.003)
Charter school (1 = Yes)	7th	-0.082*** (0.006)	-0.080*** (0.006)
	8th	-0.109*** (0.006)	-0.105*** (0.006)
Magnet school (1 = Yes)	7th	-0.112*** (0.008)	-0.111*** (0.008)
	8th	-0.133*** (0.008)	-0.133*** (0.008)
Catholic school (1 = Yes)	7th	-0.021*** (0.004)	-0.021*** (0.004)
	8th	-0.018*** (0.004)	-0.021*** (0.004)
Other private school (1 = Yes)	7th	-0.016** (0.006)	-0.017** (0.006)
	8th	-0.046*** (0.007)	-0.048*** (0.007)
Other public school (1 = Yes)	7th	-0.141*** (0.029)	-0.144*** (0.029)
	8th	-0.118*** (0.028)	-0.147*** (0.028)
School total enrollment (in 1,000 students)	7th	0.034*** (0.003)	0.034*** (0.003)
	8th	0.014*** (0.003)	0.013*** (0.003)
Constant	7th	0.050*** (0.003)	0.049*** (0.003)
	8th	0.030*** (0.004)	0.031*** (0.004)
Independent variable		Dependent variable IV: school mobility	
ELA score	6th->7th	0.020*** (0.001)	0.021*** (0.001)
	7th->8th	0.011*** (0.001)	0.011*** (0.001)
Math score	6th->7th	-0.030*** (0.001)	-0.031*** (0.001)
	7th->8th	0.017*** (0.001)	0.017*** (0.001)
Suspension days	6th->7th	0.005*** (0.000)	0.003** (0.001)
	7th->8th	-0.008*** (0.000)	-0.009*** (0.000)
ELA score × Suspension days	6th->7th		-0.001 (0.001)
	7th->8th		0.000

			(0.000)
Math score \times Suspension days	6th->7th		0.002*** (0.001)
	7th->8th		-0.001** (0.000)
Female (1 = Yes)	7th	-0.006*** (0.002)	-0.006*** (0.002)
	8th	-0.008*** (0.001)	-0.007*** (0.001)
Female \times Suspension days	7th		-0.001 (0.001)
	8th		-0.004*** (0.000)
Black American (1 = Yes)	7th	-0.119*** (0.003)	-0.121*** (0.003)
	8th	-0.065*** (0.002)	-0.065*** (0.002)
Black American \times Suspension days	7th		0.002* (0.001)
	8th		0.001 (0.000)
Latino (1 = Yes)	7th	-0.010*** (0.003)	-0.012*** (0.003)
	8th	0.006*** (0.002)	0.006** (0.002)
Latino \times Suspension days	7th		0.005*** (0.001)
	8th		0.001 (0.001)
American Indian (1 = Yes)	7th	0.040** (0.015)	0.038* (0.016)
	8th	0.011 (0.009)	0.016 (0.009)
American Indian \times Suspension days	7th		0.004 (0.008)
	8th		-0.008* (0.004)
Asian American (1 = Yes)	7th	0.026*** (0.007)	0.026*** (0.007)
	8th	0.020*** (0.004)	0.019*** (0.004)
Asian American \times Suspension days	7th		-0.010 (0.007)
	8th		-0.002 (0.003)
Other race (1 = Yes)	7th	-0.024***	-0.023***

		(0.004)	(0.004)
	8th	-0.019*** (0.002)	-0.017*** (0.002)
Other race × Suspension days	7th		-0.001 (0.002)
	8th		-0.001 (0.001)
Free and reduced-lunch plan (1 = Yes)	6th->7th	-0.048*** (0.002)	-0.048*** (0.002)
	7th->8th	-0.052*** (0.001)	-0.053*** (0.001)
Free and reduced-lunch plan × Suspension days	6th->7th		0.002 (0.001)
	7th->8th		0.003*** (0.000)
Limited English proficiency (1 = Yes)	6th->7th	-0.053*** (0.004)	-0.053*** (0.004)
	7th->8th	0.018*** (0.002)	0.018*** (0.002)
Special education (1 = Yes)	6th->7th	-0.022*** (0.003)	-0.022*** (0.003)
	7th->8th	0.005*** (0.002)	0.005*** (0.002)
Charter school (1 = Yes)	6th->7th	0.169*** (0.005)	0.169*** (0.005)
	7th->8th	-0.149*** (0.003)	-0.149*** (0.003)
Magnet school (1 = Yes)	6th->7th	0.009 (0.007)	0.009 (0.007)
	7th->8th	-0.167*** (0.004)	-0.167*** (0.004)
Catholic school (1 = Yes)	6th->7th	0.369*** (0.003)	0.369*** (0.003)
	7th->8th	-0.001 (0.002)	-0.001 (0.002)
Other private school (1 = Yes)	6th->7th	0.351*** (0.005)	0.351*** (0.005)
	7th->8th	-0.046*** (0.003)	-0.047*** (0.003)
Other public school (1 = Yes)	6th->7th	0.201*** (0.032)	0.203*** (0.032)
	7th->8th	-0.386*** (0.015)	-0.385*** (0.015)
School total enrollment (in 1,000 students)	6th->7th	0.324*** (0.002)	0.324*** (0.002)
	7th->8th	0.012***	0.012***

		(0.001)	(0.001)
Constant	7th	0.370*** (0.002)	0.371*** (0.002)
	8th	0.944*** (0.001)	0.944*** (0.001)
N		432,312	432,312
Chi2	Value	293345.96	1.184e+06
	df	166	258
RMSEA		0.064	0.039
SRMR		0.014	0.035
CFI		0.937	0.964
TLI		0.914	0.968
AIC		-7648165	8542446
BIC		-7646344	8545013

Note. "6th->7th" means independent variable was measured in the 6th grade and dependent variable was measured in the 7th grade. "7th->8th" means independent variable was measured in the 7th grade and dependent variable was measured in the 8th grade. "7th" alone means both independent variable and dependent variable were measured in the 7th grade. "8th" alone means both independent variable and dependent variable were measured in the 8th grade.

*** $p < .001$; ** $p < .01$; * $p < .05$; df, degrees of freedom.