Supplementary Information for

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- 5 Supplementary text
- 6 Figs. S1 to S3
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- 8 Legends for Dataset S1 to S2
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- Datasets S1 to S2

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1. Study 1

Table S1. Demographic variables included as controls in OLS models in Study 1.

Question	
Gender	
How old are you?	
Marital status	
Does your mother spea	ık an indigenous language or dialect?
Does your father speak	an indigenous language or dialect?
Do you live with your m	other?
Do you live with your fa	ther?
When you have an aca	demic doubt, do you have someone to help you?
What is the level of edu	cation reached by your mother (even if she passed away)?
What is the level of edu	cation reached by your father (even if he passed away)?
How many books are th	nere in your house? (Don't include magazines, newspapers, or textbooks.)
In the last 2 years, how	many times have you gone on vacation within the Mexican Republic?
How many states of the	Mexican Republic have you visited as a tourist?
At home, do you have a	a conventional telephone (landline)?
At home, do you have a	a cell phone?
At home, do you have a	a washing machine?
At home, do you have a	a refrigerator?
At home, do you have a	a gas stove?
At home, do you have a	a microwave oven?
At home, do you have o	cable or satellite TV?
At home, do you have I	nternet?
How many DVD players	s are there in your house?
How many computers a	are there in your house?
How many televisions a	are there in your house?
How many cars are the	re in your house?

Table S2. Descriptive statistics, bivariate correlations, and partial correlations for Study 1

	1	2	3	4	5	6	7	8	9	10	11	12
Own												
1. Grit		0.28***	0.25***	0.25***	0.13***	0.15***	0.12***	-0.02***	-0.01***	-0.03***	0.01**	0.01***
2. Overall GPA	0.26***		0.61***	0.57***	0.36***	0.36***	-0.01***	0.03***	0.02***	0.02***	0.00*	0.00
3. Math GPA	0.24***	0.65***		0.43***	0.42***	0.29***	0.00*	0.02***	0.04***	0.01***	0.01*	0.00
4. Verbal GPA	0.25***	0.61***	0.46***		0.20***	0.30***	-0.02***	0.02***	0.01***	0.04***	0.01***	0.01***
Math test score	0.14***	0.29***	0.36***	0.19***		0.53***	0.01**	0.01**	0.01***	0.01***	0.13***	0.07***
Reading test score	0.16***	0.31***	0.27***	0.29***	0.63***		0.01***	0.00	0.00	0.01***	0.07***	0.11***
Peers'												
7. Grit	0.21***	0.05***	0.05***	0.08***	0.12***	0.14***		0.01***	0.04***	-0.09***	0.08***	0.12***
8. Overall GPA	0.03***	0.45***	0.31***	0.30***	0.04***	0.07***	0.13***		0.58***	0.59***	0.18***	0.15***
9. Math GPA	0.03***	0.37***	0.36***	0.26***	0.08***	0.09***	0.14***	0.83***		0.37***	0.20***	0.12***
Verbal GPA	0.05***	0.35***	0.24***	0.39***	0.10***	0.14***	0.22***	0.77***	0.65***		0.16***	0.22***
Math test score	0.05***	0.04***	0.05***	0.07***	0.55***	0.46***	0.22***	0.08***	0.15***	0.18***		0.59***
Reading test score	0.06***	0.06***	0.07***	0.11***	0.49***	0.51***	0.28***	0.14***	0.19***	0.27***	0.89***	
М	3.72	8.38	8.05	8.70	0.10	0.10	3.72	8.38	8.05	8.70	0.10	0.10
SD	0.56	0.73	1.11	0.85	1.00	1.01	0.13	0.33	0.42	0.34	0.56	0.52
N	206,589	210,423	201,445	190,658	211,255	211,255	206,589	210,423	201,445	190,658	211,255	211,255

Notes. Bivariate correlations under diagonal. Partial correlations controlling for school dummy variables shown above the diagonal. Missing data was handled with pairwise deletion.

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^{*} p < .05, ** p < .01, *** p < .001.

Table S3. OLS regression models predicting self-reported grit from self and peer academic performance in Study 1

	Overall GPA	Math GPA	Language GPA	Math Test Score	Reading Test Score
Own performance	0.427***	0.233***	0.308***	0.163***	0.156***
	(0.005)	(0.004)	(0.004)	(0.003)	(0.004)
Peer performance	-0.245***	-0.133***	-0.196***	-0.096***	-0.062**
	(0.051)	(0.028)	(0.039)	(0.022)	(0.022)
R ²	0.124	0.110	0.109	0.071	0.071
N	205,901	197,139	186,551	206,589	206,589

Notes. All regressions include high school fixed effects, year dummies, and controls for student characteristics. Robust standard errors clustered by high school. The number of observations differs across regressions because of missing values.

Table S4. Subgroup analyses by range of individual GPA in Study 1

Individual GPA Range	Peer-Average GPA	Peer-Average Language GPA	Peer-Average Math GPA
<6		0.599	0.211
		(1.250)	(0.176)
6.0 - 6.4	0.744	-0.511	-0.101
	(0.855)	(0.374)	(0.067)
6.5 - 6.9	0.193	-0.016	-0.093
	(0.303)	(0.288)	(0.093)
7.0 - 7.4	-0.132	-0.250*	-0.162**
	(0.132)	(0.124)	(0.061)
7.5 - 7.9	-0.172	-0.158	-0.136**
	(0.088)	(0.109)	(0.065)
8.0 - 8.4	-0.224**	-0.140**	-0.141**
	(0.074)	(0.058)	(0.051)
8.5 - 8.9	-0.312***	-0.229**	-0.125**
	(0.088)	(0.072)	(0.062)
9.0 - 9.4	-0.459***	-0.280***	-0.324***
	(0.102)	(0.075)	(0.063)
9.5 - 9.9	-0.126	-0.241	-0.112
	(0.153)	(0.130)	(0.114)
10	-0.937	-0.125	0.095
	(0.948)	(0.118)	(0.113)

Notes. Models additionally include parameters for individuals own GPA, controls for student characteristics, and fixed effects for school and class year, not shown. Robust standard errors clustered by high school.

Table S5. Subgroup analyses by individual performance quintiles in Study 1

Individual Test Score Quintile	Math Test Score	Reading Test Score
Bottom 20%	-0.062	-0.037
	(0.043)	(0.039)
Quintile 2	-0.031	-0.040
	(0.041)	(0.042)
Quintile 3	-0.106**	-0.064
	(0.040)	(0.039)
Quintile 4	-0.130**	-0.033
	(0.041)	(0.040)
Top 20%	-0.102*	-0.100
	(0.050)	(0.054)

Notes. Models additionally include parameters for individuals own test scores, controls for student characteristics, and fixed effects for school and class year, not shown. Robust standard errors clustered by high school.

^{*} p < .05, ** p < .01, *** p < .001.

^{*} p < .05, ** p < .01, *** p < .001.

[†] p < .10, * p < .05, ** p < .01, *** p < .001.

Table S6. Subgroup analyses by gender, school type, and mother's education in Study 1

	Overal	I GPA	Math	GPA	Languag	e GPA	Math Tes	t Score	Reading Te	est Score
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
Student gender: Boys	s (1) vs. Girls	(2)								
Own performance	0.390***	0.466***	0.222***	0.246***	0.277***	0.342***	0.141***	0.185***	0.135***	0.181***
	(0.006)	(0.006)	(0.004)	(0.005)	(0.005)	(0.006)	(0.004)	(0.005)	(0.004)	(0.005)
Peer performance	-0.207**	-0.275***	-0.146***	-0.124***	-0.226***	-0.175***	-0.063**	-0.135***	-0.055	-0.076**
	(0.066)	(0.061)	(0.039)	(0.034)	(0.051)	(0.051)	(0.029)	(0.029)	(0.029)	(0.029)
R ²	0.112	0.139	0.102	0.121	0.099	0.122	0.064	0.080	0.064	0.080
n	95,447	110,400	92,472	104,616	87,218	99,282	95,780	110,755	95,780	110,755
School type: Public (1) vs. Private	(2)								
Own performance	0.421***	0.454***	0.231***	0.241***	0.302***	0.338***	0.161***	0.171***	0.156***	0.157***
	(0.005)	(0.011)	(0.004)	(0.007)	(0.004)	(0.009)	(0.004)	(0.008)	(0.004)	(0.006)
Peer performance	-0.255***	-0.242**	-0.132***	-0.096	-0.182***	-0.206**	-0.101***	-0.078	-0.056*	-0.130**
	(0.059)	(0.089)	(0.031)	(0.059)	(0.043)	(0.076)	(0.024)	(0.046)	(0.024)	(0.044)
R ²	0.123	0.135	0.111	0.113	0.108	0.115	0.072	0.073	0.072	0.073
n	170,188	35,713	162,280	34,859	153,070	33,481	170,769	35,820	170,769	35,820
Mothers education: le	ess than high	school (1) v	s. more tha	n high scho	ol (2)					
Own performance	0.424***	0.428***	0.236***	0.229***	0.304***	0.311***	0.175***	0.149***	0.174***	0.138***
	(0.006)	(0.006)	(0.004)	(0.004)	(0.005)	(0.005)	(0.004)	(0.005)	(0.005)	(0.005)
Peer performance	-0.207***	-0.251***	-0.072*	-0.186***	-0.162***	-0.214***	-0.109***	-0.074***	-0.062*	-0.056*
	(0.062)	(0.071)	(0.035)	(0.037)	(0.049)	(0.052)	(0.025)	(0.031)	(0.028)	(0.029)
R ²	0.130	0.124	0.117	0.109	0.116	0.108	0.079	0.069	0.080	0.069
n	104,058	100,531	98,866	97,066	93,280	92,127	104,452	100,803	104,452	100,803

Notes. All regressions include high school fixed effects, year dummies, and controls for student characteristics not used in the subgroup analyses. Robust standard errors clustered by high school.

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^{*} p < .05, ** p < .01, *** p < .001.

Table S7. Subgroup analyses by school size tertiles in Study 1

	Smallest third	Middle third	Largest third
Overall GPA			<u> </u>
Own performance	0.436***	0.438***	0.421***
	(0.012)	(0.008)	(0.006)
Peer performance	-0.152	-0.118	-0.357***
·	(0.085)	(0.087)	(0.081)
R ²	0.150	0.130	0.115
n	19,957	57,676	128,268
Math GPA			
Own performance	0.258***	0.251***	0.222***
	(800.0)	(0.005)	(0.005)
Peer performance	-0.060	-0.126**	-0.167***
	(0.055)	(0.047)	(0.044)
R^2	0.138	0.116	0.101
n	19,023	54,254	123,862
Language GPA			
Own performance	0.328***	0.325***	0.298***
	(0.011)	(0.007)	(0.005)
Peer performance	-0.121	-0.138	-0.270***
	(0.071)	(0.074)	(0.058)
R^2	0.131	0.115	0.099
n	18,250	51,242	117,059
Math Test Scores			
Own performance	0.202***	0.176***	0.151***
	(0.010)	(0.006)	(0.004)
Peer performance	-0.158***	-0.090*	-0.086*
	(0.040)	(0.035)	(0.037)
R^2	0.094	0.073	0.063
n	20,057	57,950	128,582
Reading Test Scores			
Own performance	0.191***	0.175***	0.143***
	(0.010)	(0.006)	(0.005)
	(0.010)	(0.000)	
Peer performance	-0.156**	-0.033	-0.054
Peer performance	, ,	, ,	, ,
Peer performance	-0.156**	-0.033	-0.054

Notes. Models additionally include parameters for individuals own GPA, controls for student characteristics, and fixed effects for school and class year, not shown. Robust standard errors clustered by high school.

^{*} p < 0.05, ** p < 0.01, *** p < 0.001.

2. Study 2

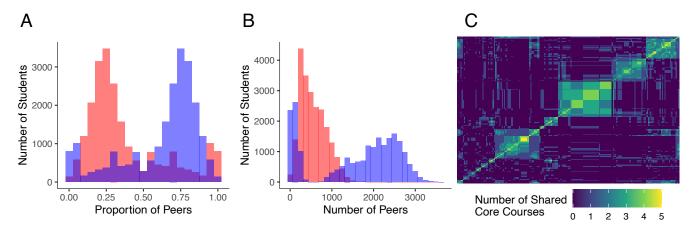


Fig. S1. Details about the construction of the near-peer and far-peer GPA variables. A. Histograms of the proportion of peers within each school that constituted near (blue) and far (red) peer variables. B. Histograms of the absolute number of peers within each school that constituted near (blue) and far (red) peer variables. C. Example similarity matrix depicting the number of shared core courses between any two students. Each colored square is a pair of students. The diagonal represents the number of core courses each student is taking. Lighter colors represent more shared core courses.

Table S8. Means, standard deviations, and correlation coefficients among the study variables in Study 2

·	1	2	3	4	5	6	7
Own							
1. Preparedness norm	-	0.15***	0.06***	0.11***	-	0.15***	-0.10***
2. Hard work norm	0.18***	-	0.09***	0.19***	-	0.25***	-0.14***
3. Conscientiousness	0.06***	0.10***	-	0.25***	-	0.05***	-0.02***
4. Core GPA	0.13***	0.19***	0.24***	-	-	0.42***	-0.28***
Peer							
5. Core GPA (in same school)	0.09***	0.10***	-0.02**	0.22***	-	-	-
6. Core GPA (peers in shared core courses)	0.17***	0.25***	0.03***	0.46***	0.62***	-	-0.54***
7. Core GPA (peers not in shared core courses)	-0.02**	-0.07***	-0.05***	-0.08***	0.55***	0.02***	-
Student demographics							
Female	0.03***	0.12***	0.09***	0.15***	-0.02**	0.04***	-0.04***
Age	0.03***	0.12***	0.09***	-0.04***	-0.10***	0.00	-0.16***
English language learner	-0.04***	-0.05***	0.03***	-0.12***	-0.04***	-0.26***	0.15***
Special education student	0.02*	0.03***	-0.03***	0.03***	0.04***	0.05***	0.04***
Eligible for free or reduced-price meals	-0.12***	-0.16***	-0.01	-0.24***	-0.19***	-0.30***	-0.02*
Race/ethnicity							
Hispanic	-0.05***	-0.06***	-0.02**	-0.11***	0.09***	-0.10***	0.17***
Black, non-Hispanic	-0.09***	-0.10***	0.03***	-0.13***	-0.35***	-0.25***	-0.21***
White, non-Hispanic	0.12***	0.12***	-0.01	0.16***	0.20***	0.27***	0.03***
Other	0.04***	0.07***	0.01	0.13***	0.05***	0.13***	-0.03***
Grade level							
8	-0.06***	-0.17***	-0.07***	0.04***	0.07***	0.07***	0.18***
9	0.03***	0.02*	-0.02***	-0.01	0.05***	-0.10***	0.02*
10	-0.02**	0.01	-0.01	-0.06***	-0.10***	-0.11***	-0.09***
11	0.03***	0.10***	0.05***	0.00	0.00	0.05***	-0.06***
12	0.03***	0.07***	0.06***	0.04***	-0.04***	0.09***	-0.08***
Home language							
English	0.06***	0.05***	0.00	0.06***	0.04***	0.15***	-0.07***
Spanish	-0.06***	-0.06***	0.00	-0.09***	0.03***	-0.14***	0.13***
Other	0.00	0.00	0.01	0.03***	-0.10***	-0.04***	-0.08***
Took survey in winter term (versus fall term)	-0.03***	-0.08***	-0.07***	-0.02**	-0.16***	-0.08***	-0.08***
M	50.13	1.90	3.39	80.97	80.10	80.01	80.60
SD	18.82	0.93	0.62	10.36	2.76	4.18	4.20
N	21,818	21,818	21,818	21,818	21,818	21,818	21,818

Notes. Bivariate correlations appear below the diagonal. Partial Correlations controlling for school dummy variables appear above the diagonal. We do not show partial correlations between peer GPA and other variables because the peer terms are collinear with the school dummy indicators. *p < .05, **p < .01, ***p < .001.

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Table S9. Differences across schools and intraclass correlation coefficients in Study 2

		Not controlling	for student demographics	Controlling for	student demographics		
	Kurtosis		F	R ²	F	ICC	
Conscientiousness	1.083	0.015	5.562***	0.030	8.905***	0.013	
Hard work Norm	-0.525	0.079	30.733***	0.118	38.361***	0.077	
Preparedness Norm	-0.598	0.030	10.904***	0.043	12.724***	0.026	
Big Five Conscientiousness items							
Reliable	-0.688	0.010	3.475***	0.038	11.421***	0.008	
Irresponsible	-0.587	0.012	4.155***	0.029	8.661***	0.010	
Dependable	-0.308	0.009	3.294***	0.021	6.272***	0.007	
Careless	-0.177	0.006	2.127***	0.014	4.201***	0.003	
Difficulty starting	0.129	0.016	5.824***	0.023	6.633***	0.012	
Lazy	0.729	0.011	4.065***	0.021	6.190***	0.010	
Tidy	2.007	0.012	4.380***	0.029	8.624***	0.009	
Systematic	2.033	0.008	3.002***	0.021	6.225***	0.006	
Messy	2.302	0.018	6.473***	0.023	6.793***	0.014	
Persistent	2.676	0.009	3.147***	0.017	4.829***	0.007	
Disorganized	2.725	0.008	2.910***	0.016	4.693***	0.005	
Efficient	4.526	0.007	2.612***	0.014	4.167***	0.005	

Notes. Bootstrapped confidence intervals with B = 1000 replications show that there is significantly more between-school variation for both standards (95% CIs [0.071 - 0.096] and [0.025 - 0.041], for hard work and preparedness norms respectively) for self-regulation compared to conscientiousness (95% CI [0.013 - 0.023]).

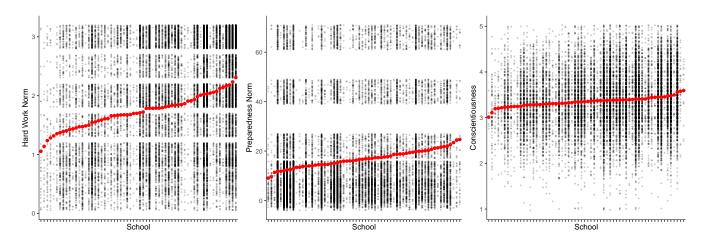


Fig. S2. Within- and between-school variation in conscientiousness and self-regulation standards. Each black dot is an individual student, arranged in vertical stacks, each of which represents a school. The red dots are the school-wide means for each variable.

 $^{^{*}}$ p < .05, ** p < .01, *** p < .001.

Table S10. OLS regression models predicting self-reported conscientiousness and self-regulation standards, respectively, in Study 2

(3)	(4)		E									
0		(c)		(2)	(3)			(£)	(2)	(3)	(4)	(2)
0.288*** 0.258*** (0.007) (0.012)	, 0.288*** (0.012)	0.292***	0.183***	0.097***	0.183***	0.097***	0.071***	0.113***	0.058***	0.113***	0.058***	0.045***
0.082 (0.041)		'	-0.015 (0.030)	'	-0.015 (0.046)			-0.015 (0.031)		-0.015 (0.033)		
-0.065*** (0.011)	-0.065***	-0.059***		0.248***		0.248***	0.230***		0.150***		0.150***	0.143***
0.038**	0.038*	0.012	·	(0.011)			-0.025 (0.020)		—0.023 (0.012)		(0.011) (0.011)	(0.012) (0.012)
							9					i L
		0.034***				•	-0.030""					(0.007)
		0.018					0.016					-0.035***
		0.001					0.007					(0.009) -0.011
		(0.008)					(0.007)					(0.007)
		(0.077)					-0.029 (0.024)					0.039
		-0.041					0.024					0.041
		(0.073)					(0.023)					(0.067)
		-0.034					0.080**					0.058
		-0.037					0.079**					0.045
		(0.070)					(0.026)					(0.063)
		0.045***					0.096***					0.019**
		0.024**					-0.043***					(0.03 <i>t</i>) -0.032***
		(0.007)					(0.010)					(0.000)
		0.052***					0.036***					0.020*
		-0.026***					0.008					-0.006
		(0.007)					(0.007)					(0.007)
		-0.044					-0.01/					0.008
		0.105***					(0.014) -0.115***					(0.009) -0.016
		(0.015)					(0.017)					(0.021)
		0.008					0.007					-0.015
		(0.012)					(0.010)					(0.010)
		-0.027*					-0.002					-0.0001
	21.818		21.818		21.818			21.818		21.818	21.818	21.818
	0.082		0.111		0.111			0.042		0.042	0.055	0.059
21,818	21,818		(0.010) 21,818 21,818 0.082 0.095	(0.010) 21,818 21,818 21,818 0.082 0.095 0.111	(0.010) 21,818 21,818 21,818 21,818 0.082 0.095 0.111 0.143	(0.010) 21,818 21,818 21,818 21,818 2 0.082 0.095 0.111 0.143	(0.010) 21,818 21,818 21,818 21,818 21,818 0.082 0.095 0.111 0.143	(0.006) (0.006) (0.006) (0.006) (0.008) (0.006) (0.008) (0.095 0.111 0.143 0.111 0.143 0.159	(0.000) (0.006) 21,818 21,818 21,818 21,818 21,818 21,818 2 0.082 0.095 0.111 0.143 0.111 0.143 0.159	(0.006) (0.006) (0.006) 21,818 21,818 21,818 21,818 21,818 21,818 20,082 0.095 0.111 0.143 0.111 0.143 0.159 0.042	(0.010) (0.010) (0.006) 21,818 21,818 21,818 21,818 21,818 21,818 20.082 0.095 0.111 0.143 0.111 0.143 0.159 0.055	(0.010) (0.010) (0.010) (0.006) (0.082 0.095 0.111 0.143 0.111 0.143 0.143 0.159 0.042 0.055 0.042

Notes. For each variable we report 5 models. (1) School-wide peers and no student characteristics, (2) Near- and far-peers and no student characteristics, and school fixed-effects. (4) Near- and far-peers, no student characteristics, and school fixed-effects (5) Near- and far-peers, student characteristics, and school fixed-effects. (5) Near- and far-peers, student characteristics, and school fixed-effects.

Notes. * p < .05, ** p < .01, *** p < .001.

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Table S11. Subgroup analyses by gender in Study 2

		Male			Female	
	C	HWN	PN	С	HWN	PN
Own GPA	0.288***	0.078***	0.057***	0.293***	0.066***	0.033**
	(0.013)	(0.011)	(0.013)	(0.015)	(0.010)	(0.010)
Near-peer GPA	-0.089***	0.187***	0.103***	-0.029	0.280***	0.187***
	(0.019)	(0.027)	(0.019)	(0.018)	(0.026)	(0.015)
Far-Peer GPA	0.011	-0.043*	-0.030	0.009	-0.009	-0.010
	(0.019)	(0.018)	(0.018)	(0.018)	(0.027)	(0.018)
Race/ethnicity						
White, non-Hispanic (reference)						
Black, non-Hispanic	0.041***	-0.038**	-0.052***	0.028	-0.021	-0.053***
	(0.010)	(0.013)	(0.014)	(0.016)	(0.013)	(0.012)
Hispanic	0.032	-0.015	-0.046**	0.003	-0.017	-0.026*
	(0.019)	(0.012)	(0.015)	(0.017)	(0.014)	(0.011)
Other Race	0.016	0.005	-0.021*	-0.015	0.007	-0.002
	(0.009)	(0.011)	(0.010)	(0.011)	(0.008)	(0.011)
Grade level						
Grade 8 (reference)						
Grade 9	-0.087	-0.052	0.126	0.030	-0.018	0.009
	(0.118)	(0.080)	(0.131)	(0.073)	(0.039)	(0.060)
Grade 10	-0.089	-0.009	0.108	0.007	0.043	-0.009
	(0.111)	(0.076)	(0.121)	(0.074)	(0.034)	(0.059)
Grade 11	-0.087	0.064	0.117	0.020	0.082	0.021
	(0.126)	(0.088)	(0.137)	(0.087)	(0.041)	(0.071)
Grade 12	-0.067	0.078	0.071	-0.003	0.070	0.037
	(0.105)	(0.072)	(0.113)	(0.074)	(0.041)	(0.062)
Student demographics						
Eligible for free or reduced priced meals	0.035***	-0.049**	-0.048***	0.014	-0.036***	-0.016
	(0.010)	(0.015)	(0.012)	(0.011)	(0.009)	(0.010)
English language learner	0.070***	0.040***	0.037***	0.037***	0.035**	0.004
	(0.010)	(0.011)	(0.010)	(0.010)	(0.011)	(0.012)
Special education student	-0.034**	0.007	-0.006	-0.015	0.010	-0.005
	(0.010)	(0.008)	(0.009)	(0.010)	(0.012)	(0.009)
Took survey in the winter term	-0.036*	-0.029	0.005	-0.055***	-0.003	0.014
	(0.014)	(0.015)	(0.013)	(0.012)	(0.017)	(0.012)
Age	0.090**	-0.151***	0.029	0.120***	-0.081***	-0.063
	(0.028)	(0.025)	(0.021)	(0.026)	(0.022)	(0.034)
Home language						
English (reference)						
Spanish	0.004	-0.009	-0.010	0.014	0.024	-0.017
	(0.015)	(0.013)	(0.015)	(0.015)	(0.016)	(0.012)
Other	-0.025	0.005	-0.010	-0.031*	-0.009	0.011
	(0.013)	(0.008)	(0.010)	(0.013)	(0.009)	(0.008)
n	10,868	10,868	10,868	10,950	10,950	10,950
R ²	0.088	0.133	0.053	0.099	0.169	0.074

Notes Estimates calculated by running separate OLS regressions for each subgroup. Robust standard errors clustered by school. C = Conscientiousness, HWN = Hard work norm, PN = Preparedness norm.

^{*} p < .05, ** p < .01, *** p < .001.

Table S12. Subgroup analyses by grade in Study 2

		Grade 8			Grade 9			Grade 10			Grade 11			Grade 12	
	O	HWH	NA NA	O	HWN	NA NA	O	HWN	PN	O	HWN	NA NA	O	HWN	A N
Own GPA	0.334***	0.091***	0.051**	0.328***	0.076***	0.065*	0.300***	***680.0	0.042*	0.260***	0.044**	0.036	0.231***	0.043	0.029*
	(0.016)	(0.013)	(0.015)	(0.014)	(0.014)	(0.025)	(0.016)	(0.022)	(0.018)	(0.021)	(0.014)	(0.018)	(0.021)	(0.027)	(0.013)
Near-peer GPA	-0.080*	0.074	0.079**	*090.0-	0.203***	0.138***	-0.084*	0.102*	.000	-0.020	0.299***	0.187***	-0.055*	0.241***	0.162***
	(0.033)	(0.055)	(0.027)	(0.029)	(0.039)	(0.029)	(0.035)	(0.039)	(0.031)	(0.028)	(0.034)	(0.022)	(0.020)	(0.046)	(0.022)
Far-Peer GPA	0.027	-0.127**	-0.061*	-0.038	-0.148**	-0.076	-0.007	-0.325***	-0.193**	0.093	-0.097	0.026	-0.147	-0.015	-0.041
	(0.030)	(0.042)	(0.026)	(0.044)	(0.046)	(0.046)	(0.056)	(0.048)	(0.053)	(0.067)	(0.077)	(0.034)	(0.093)	(0.112)	(0.086)
Race/ethnicity															
White, non-Hispanic (reference)															
Black, non-Hispanic	0.041*	-0.034	-0.061***	0.036	-0.002	-0.044*	0.024	-0.066**	-0.056**	0.045*	-0.018	-0.049**	0.014	-0.034	-0.030
	(0.020)	(0.023)	(0.015)	(0.021)	(0.018)	(0.017)	(0.017)	(0.018)	(0.020)	(0.020)	(0.020)	(0.017)	(0.025)	(0.035)	(0.029)
Hispanic	0.011	-0.002	-0.035	0.001	900.0	-0.052*	0.012	-0.032	-0.033	0.037	-0.005	-0.015	0.033	-0.061***	-0.037
	(0.026)	(0.023)	(0.022)	(0.021)	(0.021)	(0.024)	(0.019)	(0.018)	(0.023)	(0.021)	(0.019)	(0.021)	(0.017)	(0.015)	(0.031)
Other Race	-0.0004	-0.009	-0.019	0.004	0.012	-0.004	-0.007	0.003	-0.029	-0.004	0.016	900.0	0.008	0.00	-0.011
	(0.018)	(0.015)	(0.013)	(0.008)	(0.017)	(0.018)	(0.018)	(0.017)	(0.019)	(0.021)	(0.014)	(0.010)	(0.015)	(0.022)	(0.017)
Student demographics															
Female	0.001	0.071***	0.0003	0.054***	0.076***	0.032	.056*	0.128***	0.010	0.071***	0.112***	0.016	0.062***	0.103***	0.057**
	(0.011)	(0.012)	(0.011)	(0.014)	(0.015)	(0.016)	(0.020)	(0.015)	(0.019)	(0.012)	(0.010)	(0.015)	(0.013)	(0.026)	(0.017)
Eligible for free or reduced priced meals	-0.003	-0.047**	-0.027*	0.040**	-0.043*	-0.032*	0.030	-0.032	-0.035**	0.034*	-0.028	-0.033	0.039*	-0.046***	-0.013
	(0.011)	(0.014)	(0.013)	(0.011)	(0.019)	(0.011)	(0.016)	(0.022)	(0.011)	(0.012)	(0.015)	(0.017)	(0.018)	(0.012)	(0.022)
English language learner	0.046**	0.050***	0.036	0.078***	0.032	0.050*	0.042*	0.023	-0.010	0.062***	0.034^{*}	0.015	0.028	0.040	-0.015
	(0.013)	(0.014)	(0.020)	(0.015)	(0.028)	(0.019)	(0.017)	(0.012)	(0.017)	(0.016)	(0.015)	(0.015)	(0.024)	(0.021)	(0.014)
Special education student	0.033*	0.019	-0.002	-0.051**	-0.004	-0.031*	-0.031**	0.002	0.004	-0.055***	0.029	0.013	-0.015	-0.047***	-0.036**
	(0.015)	(0.015)	(0.017)	(0.015)	(0.016)	(0.014)	(600.0)	(0.016)	(0.016)	(0.00)	(0.015)	(0.012)	(0.016)	(0.011)	(0.011)
Took survey in the winter term	-0.034	-0.019	0.025	-0.057**	-0.057***	-0.029	-0.035	-0.099***	-0.026	-0.030	-0.028	0.020	*690.0-	0.027	0.034
	(0.021)	(0.020)	(0.018)	(0.019)	(0.015)	(0.024)	(0.018)	(0.022)	(0.017)	(0.031)	(0.025)	(0.014)	(0.027)	(0.024)	(0.029)
Age	0.037***	-0.030*	-0.008	0.019	-0.042	0.030	0.073***	-0.040*	-0.001	0.031*	-0.046***	-0.024	0.048**	-0.059***	-0.011
	(0.010)	(0.014)	(0.012)	(0.019)	(0.023)	(0.021)	(0.017)	(0.015)	(0.024)	(0.012)	(0.00)	(0.015)	(0.013)	(0.014)	(0.016)
Home language															
English (reference)															
Spanish	0.049*	0.002	-0.002	900.0	0.016	-0.020	-0.026	-0.010	-0.042	-0.027	0.010	0.003	0.027	0.033	-0.029
	(0.019)	(0.024)	(0.018)	(0.023)	(0.021)	(0.024)	(0.020)	(0.028)	(0.030)	(0.017)	(0.019)	(0.019)	(0.025)	(0.019)	(0.031)
Other	0.008	-0.005	0.002	-0.031**	-0.021	0.002	-0.039	0.007	0.033	-0.047*	0.004	-0.017	-0.051*	900.0	-0.015
	(0.013)	(0.016)	(0.015)	(0.010)	(0.016)	(0.011)	(0.020)	(0.014)	(0.020)	(0.021)	(0.012)	(0.016)	(0.020)	(0.017)	(0.013)
u	5,903	5,903	5,903	4,177	4,177	4,177	3,606	3,606	3,606	5,091	5,091	5,091 3,	3,041 3,	3,041 3,	3,041
R ²	0.101	0.095	0.043	0.117	0.158	0.075	0.099	0.163	0.072	0.080	0.166	0.067	0.082	0.136	0.071
			-		-		-								

R²

Notes. Estimates calculated by running separate OLS regressions for each subgroup. Robust standard errors clustered by school. C = Conscientiousness, HWN = Hard work norm, PN = Preparedness norm.

* p < .05; ** p < .001, *** p < .001.

Table S13. Subgroup analyses by eligibility for free or reduced priced meals status in Study 2

	Eligible for	free or reduce	d priced meals	Not eligible	for free or red	uced priced meal
	C	HWN	PN	C	HWN	PN
Own GPA	0.270***	0.058***	0.024*	0.299***	0.082***	0.067***
	(0.013)	(0.009)	(0.011)	(0.015)	(0.010)	(0.012)
Near-peer GPA	-0.068***	0.214***	0.123***	-0.036*	0.235***	0.151***
•	(0.019)	(0.025)	(0.018)	(0.016)	(0.028)	(0.017)
Far-Peer GPA	0.007	-0.028	-0.037*	0.028	-0.022	0.001
	(0.016)	(0.021)	(0.017)	(0.019)	(0.026)	(0.021)
Race/ethnicity	, ,	, ,	, ,	, ,	, ,	, ,
White, non-Hispanic (reference)						
Black, non-Hispanic	0.051**	-0.042*	-0.045***	0.020	-0.015	-0.046***
	(0.018)	(0.016)	(0.012)	(0.010)	(0.012)	(0.013)
Hispanic	0.030	-0.029	-0.019	0.010	-0.006	-0.038**
·	(0.018)	(0.016)	(0.014)	(0.013)	(0.013)	(0.011)
Other Race	0.008	0.015	-0.007	-0.006	0.001	-0.012
	(0.012)	(0.010)	(0.009)	(800.0)	(0.011)	(0.011)
Grade level						
Grade 8 (reference)						
Grade 9	0.133	-0.029	0.054	-0.141**	-0.032	0.075
	(0.118)	(0.055)	(0.055)	(0.044)	(0.050)	(0.107)
Grade 10	0.119	0.025	0.029	-0.141**	0.022	0.064
	(0.115)	(0.056)	(0.054)	(0.041)	(0.048)	(0.095)
Grade 11	0.152	0.082	0.049	-0.160**	0.073	0.081
	(0.126)	(0.063)	(0.062)	(0.051)	(0.056)	(0.115)
Grade 12	0.124	0.075	0.043	-0.144**	0.080	0.059
	(0.106)	(0.054)	(0.053)	(0.047)	(0.051)	(0.094)
Student demographics						
Female	0.024**	0.093***	0.025*	0.064***	0.100***	0.012
	(0.008)	(0.010)	(0.011)	(0.010)	(0.009)	(0.010)
English language learner	0.064***	0.026**	0.030**	0.035***	0.049**	0.005
	(0.011)	(0.009)	(0.010)	(0.010)	(0.015)	(0.014)
Special education student	-0.014	-0.016	-0.010	-0.039***	0.030**	-0.005
	(0.009)	(0.010)	(0.012)	(0.010)	(0.009)	(800.0)
Took survey in the winter term	-0.060***	-0.033*	0.012	-0.026*	0.001	0.008
•	(0.012)	(0.015)	(0.012)	(0.012)	(0.015)	(0.012)
Age	0.102***	-0.120***	-0.008	0.102***	-0.108***	-0.025
	(0.021)	(0.023)	(0.031)	(0.026)	(0.025)	(0.025)
łome language						
English (reference)						
Spanish	-0.001	0.020	-0.015	0.018	-0.004	-0.017
	(0.014)	(0.014)	(0.012)	(0.013)	(0.012)	(0.013)
Other	-0.055***	-0.014	-0.004	0.004	0.010	0.009
	(0.013)	(0.010)	(0.011)	(0.010)	(0.009)	(0.010)
7	10,704	10,704	10,704	11,114	11,114	11,114
R ²	0.100	0.129	0.037	0.101	0.156	0.065

Notes. Estimates calculated by running separate OLS regressions for each subgroup. Robust standard errors clustered by school. C = Conscientiousness, HWN = Hard work norm, PN = Preparedness norm.

^{*} p < .05, ** p < .01, *** p < .001.

Table S14. Subgroup analyses by race/ethnicity in Study 2

		White			Black			Hispanic			Other Race	
	O	NMH	NA NA	O	NMH	NA NA	O	NMH	NA NA	O	NMH	A N
Own GPA	0.333***	0.076***	0.080***	0.209***	0.059***	-0.003	0.299***	0.074***	0.049***	0.246***	0.033	0.057
	(0.014)	(0.011)	(0.014)	(0.019)	(0.017)	(0.018)	(0.011)	(0.012)	(0.011)	(0.034)	(0.034)	(0.038)
Near-peer GPA	-0.001	0.265***	0.191***	-0.071**	0.214***	0.145***	-0.064**	0.203***	0.101***	-0.086	0.174***	0.141***
	(0.021)	(0.028)	(0.023)	(0.022)	(0.029)	(0.017)	(0.020)	(0.028)	(0.021)	(0.021)	(0.045)	(0.038)
Far-Peer GPA	0.071*	0.029	*090.0	-0.030	-0.014	-0.028	0.012	-0.058*	-0.055**	-0.037	-0.052	-0.025
	(0:030)	(0.026)	(0.028)	(0.023)	(0.025)	(0.018)	(0.019)	(0.026)	(0.017)	(0.048)	(0.048)	(0.051)
Grade level												
Grade 8 (reference)												
Grade 9	-0.019	0.313***	0.190	-0.036	0.022	-0.032	-0.102	-0.176***	-0.016	0.263	0.044	0.298
	(0.035)	(0.059)	(0.243)	(0.122)	(0.049)	(0.098)	(0.056)	(0.037)	(0.045)	(0.223)	(0.248)	(0.216)
Grade 10	-0.038	0.324***	0.159	-0.046	0.079	-0.053	-0.101	-0.123^{***}	-0.031	0.227	0.123	0.229
	(0.024)	(0.050)	(0.195)	(0.147)	(0.058)	(0.119)	(0.052)	(0.034)	(0.044)	(0.208)	(0.230)	(0.199)
Grade 11	-0.066*	0.425***	0.178	-0.004	0.177**	-0.055	-0.096	-0.098*	0.001	0.259	0.186	0.285
	(0.029)	(0.071)	(0.245)	(0.155)	(0.064)	(0.132)	(0.061)	(0.042)	(0.050)	(0.225)	(0.266)	(0.229)
Grade 12	-0.083**	0.341***	0.145	-0.019	0.185**	-0.022	-0.072	-0.078*	-0.022	0.227	0.188	0.215
	(0.031)	(0.061)	(0.190)	(0.137)	(0.059)	(0.120)	(0.051)	(0.037)	(0.044)	(0.204)	(0.232)	(0.199)
Student demographics												
Female	0.073***	0.108***	0.014	0.048***	0.084***	0.00	0.025^{*}	0.095***	0.017	0.032	0.112***	0.074**
	(0.012)	(0.011)	(0.014)	(0.013)	(0.013)	(0.011)	(0.010)	(600.0)	(0.00)	(0.021)	(0.024)	(0.024)
Eligible for free or reduced priced meals	0.011	-0.037**	-0.040**	0.021*	-0.034	-0.029*	0.031***	-0.046^{***}	-0.016	-0.004	-0.023	-0.051
	(0.013)	(0.011)	(0.012)	(0.010)	(0.022)	(0.014)	(0.00)	(0.012)	(0.00)	(0.017)	(0.021)	(0.028)
English language learner	0.035**	-0.003	0.008	0.025	0.012	-0.011	0.072***	0.055***	0.029*	0:030	-0.019	-0.017
	(0.011)	(0.021)	(0.017)	(0.018)	(0.013)	(0.016)	(0.013)	(0.012)	(0.013)	(0.025)	(0.025)	(0.027)
Special education student	-0.056***	0.015	-0.001	-0.038^{*}	0.002	0.018	0.0001	0.003	-0.025*	-0.011	0.021	-0.026
	(0.013)	(0.014)	(0.013)	(0.016)	(0.020)	(0.015)	(0.010)	(0.012)	(0.010)	(0.027)	(0.024)	(0.020)
Took survey in the winter term	0.010	0.039*	0.031	-0.057**	-0.034	-0.001	-0.066***	-0.041*	0.001	-0.043	-0.025	0.040
	(0.018)	(0.019)	(0.021)	(0.016)	(0.017)	(0.015)	(0.013)	(0.018)	(0.016)	(0.044)	(0.032)	(0.039)
Age	0.142***	-0.077	-0.032	.0.069*	-0.187***	-0.012	0.107***	-0.078*	-0.016	0.073	-0.178**	0.010
	(0.027)	(0.044)	(0.030)	(0.026)	(0.033)	(0.051)	(0.022)	(0.031)	(0.030)	(0.047)	(0.059)	(090.0)
Home language												
English (reference)												
Spanish	0.018	0.013	0.002	-0.009	0.015	-0.003	0.008	0.003	-0.019	0.002	0.019	0.010
	(0.010)	(0.012)	(0.014)	(0.010)	(0.015)	(0.014)	(0.013)	(0.013)	(0.011)	(0.007)	(0.026)	(0.018)
Other	0.026	0.016	0.007	-0.075***	-0.005	-0.002	-0.005	0.003	0.018	-0.030	-0.0003	-0.010
	(0.014)	(0.012)	(0.012)	(0.016)	(0.012)	(0.018)	(0.008)	(0.010)	(0.010)	(0.027)	(0.024)	(0.019)
n	6,166	6,166	6,166	5,020	5,020	5,020	8,913	8,913	8,913	1,719	1,719	1,719
H^2	0.129	0.175	0.069	0.082	0.134	0.043	0.111	0.133	0.040	0.089	0.186	0.121

Notes. Estimates calculated by running separate OLS regressions for each subgroup. Robust standard errors clustered by school. C = Conscientiousness, HWN = Hard work norm, PN = Preparedness norm.

* p < .05, ** p < .01, *** p < .001.

Table S15. Subgroup analyses by English language learner status in Study 2

	English	Language L	earner	Non Englis	sh Language	Learner
	C	HWN	PN	C	HWN	PN
Own GPA	0.256***	0.127***	0.040	0.296***	0.064***	0.045***
	(0.028)	(0.023)	(0.021)	(0.014)	(0.008)	(0.010)
Near-peer GPA	-0.047	-0.034	-0.047	-0.058***	0.240***	0.150***
	(0.035)	(0.033)	(0.035)	(0.017)	(0.023)	(0.013)
Far-Peer GPA	0.046	-0.009	-0.120**	0.013	-0.035	-0.024
	(0.065)	(0.079)	(0.038)	(0.016)	(0.018)	(0.013)
Race/ethnicity						
White, non-Hispanic (reference)						
Black, non-Hispanic	-0.042	-0.041	-0.111*	0.037***	-0.028**	-0.047***
	(0.044)	(0.054)	(0.043)	(0.010)	(0.009)	(0.007)
Hispanic	-0.093**	0.018	0.020	0.022*	-0.019	-0.036***
	(0.034)	(0.051)	(0.047)	(0.011)	(0.010)	(0.009)
Other Race	-0.032	0.0001	-0.013	0.0002	0.007	-0.010
	(0.022)	(0.028)	(0.027)	(0.009)	(0.008)	(800.0)
Grade level						
Grade 8 (reference)						
Grade 9	0.002	-0.096	-0.013	-0.009	-0.037	0.061
	(0.045)	(0.049)	(0.035)	(0.094)	(0.022)	(0.078)
Grade 10	-0.067**	-0.067*	-0.061	-0.017	0.021	0.046
	(0.024)	(0.033)	(0.032)	(0.089)	(0.021)	(0.072)
Grade 11				-0.011	0.077**	0.057
	(0.000)	(0.000)	(0.000)	(0.103)	(0.026)	(0.082)
Grade 12	-0.031	0.040	-0.022	-0.015	0.076**	0.045
	(0.027)	(0.029)	(0.025)	(0.087)	(0.025)	(0.068)
Student demographics						
Female	-0.033	0.061**	-0.047*	0.052***	0.099***	0.026***
	(0.020)	(0.021)	(0.020)	(0.007)	(0.007)	(0.007)
Eligible for free or reduced priced meals	0.034	-0.072**	0.037	0.021*	-0.036***	-0.036***
	(0.017)	(0.023)	(0.020)	(0.008)	(0.010)	(0.007)
Special education student	0.015	0.004	-0.049	-0.028***	0.009	-0.003
	(0.015)	(0.023)	(0.027)	(0.007)	(0.008)	(0.007)
Took survey in the winter term	-0.119***	-0.101***	0.001	-0.036**	-0.009	0.006
	(0.022)	(0.024)	(0.024)	(0.011)	(0.013)	(0.010)
Age	0.150**	-0.063	-0.060	0.099***	-0.124***	-0.004
	(0.048)	(0.045)	(0.038)	(0.018)	(0.018)	(0.022)
Home language						
English (reference)						
Spanish	-0.023	-0.048	-0.129	0.003	0.007	-0.010
	(0.079)	(0.084)	(0.079)	(0.011)	(0.009)	(0.009)
Other	-0.128	-0.079	-0.045	-0.021	0.002	0.002
	(0.091)	(0.076)	(0.074)	(0.011)	(0.006)	(0.008)
n	2,091	2,091	2,091	19,727	19,727	19,727
R^2	0.124	0.086	0.059	0.097	0.171	0.064

Notes. Estimates calculated by running separate OLS regressions for each subgroup. Robust standard errors clustered by school. C = Conscientiousness, HWN = Hard work norm, PN = Preparedness norm.

^{*}p < .05; **p < .01; *** < .001

Table S16. Subgroup analyses by GPA tertiles in Study 2

		Low GPA		Σ	Medium GPA			High GPA	
	O	HWN	PN	O	HWN	A	O	NWH	PN
Own GPA	0.353***	0.076	0.147***	0.553***	0.132**	0.115***	0.159***	0.061***	0.036
	(0.060)	(0.054)	(0.040)	(0.046)	(0.047)	(0.029)	(0.021)	(0.015)	(0.022)
Near-peer GPA	-0.072***	0.273***	0.145***	-0.069**	0.174***	0.120***	-0.033	0.243***	0.149***
	(0.020)	(0.027)	(0.021)	(0.021)	(0.047)	(0.022)	(0.023)	(0.027)	(0.022)
Far-Peer GPA	0.023	0.012	-0.029	0.002	-0.030	0.00	0.040	-0.071*	-0.031
	(0.022)	(0.022)	(0.022)	(0.028)	(0.031)	(0.021)	(0.028)	(0.030)	(0.019)
Race/ethnicity									
White, non-Hispanic (reference)									
Black, non-Hispanic	0.032	-0.005	-0.062***	0.003	-0.029	-0.061***	0.083***	-0.047**	-0.034^{*}
	(0.017)	(0.015)	(0.016)	(0.019)	(0.016)	(0.016)	(0.013)	(0.015)	(0.016)
Hispanic	0.033	0.003	-0.058***	0.0001	-0.007	-0.003	0.048**	-0.033	-0.028
	(0.021)	(0.015)	(0.015)	(0.019)	(0.016)	(0.017)	(0.017)	(0.021)	(0.014)
Other Race	0.014	0.008	-0.022*	-0.030**	0.002	-0.002	0.027	0.017	-0.018
	(0.017)	(0.015)	(0.010)	(600.0)	(0.010)	(0.011)	(0.016)	(0.020)	(0.018)
Grade level									
Grade 8 (reference)									
Grade 9	-0.026	-0.179*	-0.196***	-0.177**	0.024	0.141	0.249*	-0.070	0.316**
	(0.053)	(0.078)	(0.045)	(0.053)	(0.058)	(0.091)	(0.101)	(0.092)	(0.118)
Grade 10	-0.052	-0.123	-0.184***	-0.162**	0.094	0.105	0.227*	-0.028	0.287*
	(0.048)	(0.073)	(0.042)	(0.050)	(0.054)	(0.084)	(0.096)	(0.088)	(0.112)
Grade 11	-0.057	-0.103	-0.184***	-0.148*	0.148*	0.107	0.271*	0.039	0.347*
	(0.058)	(0.085)	(0.050)	(0.056)	(0.065)	(0.096)	(0.109)	(0.100)	(0.131)
Grade 12	690.0—	-0.082	-0.135**	-0.120*	0.135*	0.073	0.224*	0.049	0.280*
	(0.050)	(0.072)	(0.042)	(0.047)	(0.056)	(0.083)	(0.092)	(0.084)	(0.109)
Student demographics									
Female	0.045***	0.085***	0.022*	0.059***	0.112***	0.022	0.023	0.086***	0.011
	(0.012)	(0.010)	(0.011)	(0.011)	(0.012)	(0.011)	(0.012)	(0.011)	(0.012)
Eligible for free or reduced priced meals	0.039***	-0.031	-0.025	0.019	-0.060***	-0.036**	0.021	-0.038**	-0.027*
	(0.011)	(0.016)	(0.015)	(0.015)	(0.011)	(0.011)	(0.012)	(0.013)	(0.013)
English language learner	0.061***	0.058***	0.033*	0.026	-0.005	-0.014	0.057***	0.036*	0.019
	(0.014)	(0.012)	(0.013)	(0.017)	(0.017)	(0.019)	(0.011)	(0.014)	(0.013)
Special education student	-0.041**	0.002	-0.024*	-0.026**	0.029**	0.011	-0.036***	-0.011	-0.014
	(0.014)	(0.013)	(0.011)	(0.00)	(0.010)	(0.010)	(0.010)	(0.012)	(0.013)
Took survey in the winter term	-0.043*	-0.009	-0.004	-0.043*	0.001	-0.006	-0.051***	-0.041*	0.031*
	(0.018)	(0.013)	(0.016)	(0.020)	(0.020)	(0.013)	(0.014)	(0.018)	(0.015)
Age	0.155***	-0.093**	-0.062**	0.005	-0.104**	0.017	0.120***	-0.132***	-0.002
	(0.032)	(0:030)	(0.023)	(0.026)	(0.034)	(0.039)	(0.034)	(0.026)	(0.037)
Home language									
English (reference)									
Spanish	0.008	0.010	0.004	-0.001	-0.003	-0.050**	0.012	0.014	-0.007
	(0.018)	(0.013)	(0.015)	(0.020)	(0.015)	(0.015)	(0.016)	(0.016)	(0.016)
Other	-0.029*	-0.012	-0.008	-0.025*	0.004	-0.010	-0.033*	0.0001	0.016
	(0.013)	(0.011)	(0.014)	(0.010)	(0.012)	(0.00)	(0.014)	(0.011)	(0.013)
u	7,243	7,243	7,243	7,061	7,061	7,061	7,514	7,514	7,514
£ .	0.061	0.138	0.062	0.053	0.155	0.069	0.071	0.128	0.038
	-	5	1	2	;	>			?

Notes. Estimates calculated by running separate OLS regressions for each subgroup. Robust standard errors clustered by school. C = Conscientiousness, HWN = Hard work norm, PN = Preparedness norm.

* p < .05, ** p < .01, *** p < .001.

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3. Study 3

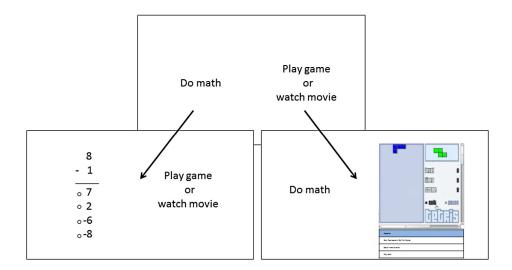


Fig. S3. In the Academic Diligence Task (1), students choose between "Do math" or "Play game or watch movie." If they click "Do math," they solve single-digit subtraction problems. If they instead click "Play game or watch movie," a pull-down menu is displayed that contains various video clips or the option to play the video game Tetris. At any point the students can toggle between math or entertainment, but the program restricts engagement to one activity at a time. Figure reproduced with permission from Galla et al. (1).

Table S17. Means, standard deviations, and correlation coefficients in Study 3.

	1	2	3	4	5	6	7
1. Grit		0.59***	0.09**	0.08**	0.09**	0.27***	-0.01
2. Self-control	0.61***		0.17***	0.12***	0.03	0.32***	-0.06*
3. ADT	0.06	0.12***		0.14***	0.27***	0.25***	0.20***
4. College graduation	0.03	0.05	0.18***		0.19***	0.38***	0.04
5. SAT score	-0.06	-0.12***	0.28***	0.27***		0.47***	0.44***
6. GPA	0.27***	0.31***	0.27***	0.33***	0.31***		0.18***
7. Cognitive ability	-0.10***	-0.16***	0.24***	0.11***	0.53***	0.16***	
М	3.69	3.50	10.47	33.49%	921.11	2.91	63.10%
SD	0.74	0.70	4.95		184.24	0.67	
N	1,166	1,166	803	1,278	970	944	1,123

Notes. Correlations controlling for school dummy variables shown above the diagonal.

[†] p < .10, * p < .05, ** p < .01, *** p < .001.

Table S18. Multilevel logistic regression models predicting college graduation using the full sample in Study 3

	(1)	(2)	(1)	(2)	(1)	(2)
Grit: level 1 (student)	0.163*	0.151†				
	(0.070)	(0.083)				
Grit: level 2 (school)	-0.385**	-0.343*				
	(0.135)	(0.136)				
Self-control: level 1 (student)			0.161*	0.148†		
			(0.070)	(0.082)		
Self-control: level 2 (school)			-0.440***	-0.437***		
			(0.128)	(0.117)		
Academic Diligence Task: level 1 (student)					0.153*	0.138†
					(0.070)	(0.083)
Academic Diligence Task: level 2 (school)					0.460***	0.324*
					(0.128)	(0.135)
Missing Academic Diligence Task					-0.170	-0.020
					(0.158)	(0.181)
General cognitive ability	0.080	0.064	0.074	0.052	0.086	0.077
	(0.074)	(0.085)	(0.073)	(0.084)	(0.074)	(0.085)
Student demographics						
Age		-0.320*		-0.357*		-0.314*
		(0.151)		(0.149)		(0.151)
Female		0.559***		0.540**		0.583***
		(0.165)		(0.165)		(0.165)
Eligible for free or reduced-priced meals		-0.703*		-0.791**		-0.651*
,		(0.300)		(0.302)		(0.301)
English Language Learner		0.417		0.573†		0.205
		(0.370)		(0.319)		(0.375)
Special Education Student		0.079		0.056		0.165
·		(0.446)		(0.447)		(0.447)
Race/ethnicity		,		, ,		, ,
White		-0.060		-0.110		-0.019
		(0.514)		(0.510)		(0.514)
Hispanic		0.015		-0.129		0.193
•		(0.249)		(0.243)		(0.238)
Asian		0.196		0.180		0.246
		(0.375)		(0.369)		(0.372)
Other		-0.539		-0.554		-0.486
		(0.405)		(0.406)		(0.402)
Intercept	-0.750***	5.391*	-0.740***	6.194*	-0.661***	5.159†
•	(0.133)	(2.712)	(0.123)	(2.670)	(0.126)	(2.706)
N	1,037	780	1,037	780	1,037	780
Log Likelihood	-639.542	-478.316	-638.410	-476.401	-637.526	-478.705
Akaike Inf. Crit.	1,289.083	984.633	1,286.821	980.802	1,287.053	987.410
	,	1,049.863	,	1,046.032	.,_0000	00

Notes. For each variable we report 2 models. (1) Unadjusted, (2) Controlling for student characteristics. Level 2 is the empirical bayesian estimate of the school mean. Level 1 is the deviation of each individual relative to the estimated school mean. Numeric variables were standardized prior to estimation, so coefficients are betas. Categorical variables are not standardized. $\uparrow , * <math>p < .05$, *** p < .01, *** p < .01.

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Table S19. Multilevel logistic regression models predicting college graduation using listwise deletion in Study 3

	(1)	(2)	(1)	(2)	(1)	(2)
Grit: level 1 (student)	0.163*	0.151†				
	(0.070)	(0.083)				
Grit: level 2 (school)	-0.385**	-0.343*				
	(0.135)	(0.136)				
Self-control: level 1 (student)			0.161*	0.148†		
			(0.070)	(0.082)		
Self-control: level 2 (school)			-0.440***	-0.437***		
			(0.128)	(0.117)		
Academic Diligence Task: level 1 (student)					0.154*	0.138†
					(0.070)	(0.083)
Academic Diligence Task: level 2 (school)					0.461***	0.324*
					(0.129)	(0.136)
General cognitive ability					0.094	0.078
					(0.073)	(0.085)
Student demographics						
Age		-0.320*		-0.357*		-0.315*
		(0.151)		(0.149)		(0.151)
Female		0.559***		0.540**		0.585***
		(0.165)		(0.165)		(0.165)
Eligible for free or reduced-priced meals		-0.703*		-0.791**		-0.653*
		(0.300)		(0.302)		(0.300)
English Language Learner		0.417		0.573†		0.203
		(0.370)		(0.319)		(0.376)
Special Education Student		0.079		0.056		0.162
		(0.446)		(0.447)		(0.446)
Race/ethnicity						
White		-0.060		-0.110		-0.015
		(0.514)		(0.510)		(0.513)
Hispanic		0.015		-0.129		0.193
		(0.249)		(0.243)		(0.238)
Asian		0.196		0.180		0.249
		(0.375)		(0.369)		(0.371)
Other		-0.539		-0.554		-0.486
		(0.405)		(0.406)		(0.402)
Intercept	-0.750***	5.391*	-0.740***	6.194*	-0.708***	5.174†
	(0.133)	(2.712)	(0.123)	(2.670)	(0.119)	(2.704)
N	1,037	780	1,037	780	1,037	780
Log Likelihood	-639.542	-478.316	-638.410	-476.401	-638.103	-478.711
Akaike Inf. Crit.	1,289.083	984.633	1,286.821	980.802	1,286.205	985.422
Bayesian Inf. Crit.	1,313.804	1,049.863	1,311.541	1,046.032	1,310.926	1,050.652

Notes. For each variable we report 2 models. (1) Unadjusted, (2) Controlling for student characteristics. Level 2 is the empirical bayesian estimate of the school mean. Level 1 is the deviation of each individual relative to the estimated school mean. Numeric variables were standardized prior to estimation, so coefficients are betas. Categorical variables are not standardized.

†

Table S20. OLS regression models predicting self-reported grit and self-control, and the Academic Diligence Task from peer and own performance in Study 3 (conceptual replication of Studies 1 and 2).

		ADT	F			Grit	ı;			Sel	Self-Control	
	20	CA	GPA	SAT	SG	CA	GPA	SAT				SAT
Own performance	0.117	0.204**	0.182**	0.286***	0.073	-0.018	0.315***	0.079		-0.060	0.328***	0.027
	(0.058)	(0.046)	(0.072)	(0.073)	(0.058)	(0.037)	(0.064)	(0.075)				(0.048)
Peer performance	0.016	0.078**	0.023	-0.110	-0.212***	-0.214***	-0.005	-0.260***		- 1	- 1	-0.230***
	(0.053)	(0.024)	(0.072)	(0.08)	(0.041)	(0.04)	(0.038)	(0.054)				(0.021)
Student demographics												
Eligible for free or reduced-price meals	-0.026	0.064	-0.055	0.010	0.050	0.099	0.258*	0.109	0.053	0.033		0.054
	(0.152)	(0.237)	(0.116)	(0.157)	(0.065)	(0.141)	(0.104)	(0.151)	(0.184)	(0.09)		(0.585)
Female	960.0	0.138	0.032	0.145	-0.048	-0.013	-0.114	-0.007	0.200***	0.268***		0.270***
	(0.117)	(0.116)	(0.16)	(0.083)	(0.047)	(0.065)	(0.055)	(0.088)	(0.034)	(0.045)	(0.051)	(0.043)
English language learner	0.338	0.379*	0.373	0.062	-0.041	-0.229	-0.297	-0.689*	0.264**	0.074		-0.261
	(0.189)	(0.159)	(0.32)	(0.663)	(0.321)	(0.242)	(0.223)	(0.309)	(0.092)	(0.081)		(0.134)
Special education student	-0.491*	-0.490*	-0.220	-0.079	0.221	0.325***	0.431	0.296**	0.226	0.172		0.161
	(0.222)	(0.21)	(0.227)	(0.305)	(0.118)	(0.091)	(0.237)	(0.077)	(0.106)	(0.165)		(0.148)
Race/ethnicity												
White	0.198	0.177	0.153		0.087	0.079	-0.046	0.074	-0.038	-0.022	-0.019	-0.139
	(0.133)	(0.183)	(0.091)		(0.225)	(0.334)	(0.077)	(0.28)	(0.312)	(0.431)	(0.131)	(0.787)
Hispanic	0.229*	0.011	0.246		-0.071	0.047	-0.083	-0.066	-0.190	-0.071	-0.267**	-0.191***
	(20.0)	(0.09)	(0.14)	(0.085)	(0.164)	(0.097)	(0.14)	(0.11)	(0.121)	(0.06)	(0.083)	(0.039)
Asian	0.645***	0.532***	0.604***		0.194	0.227	-0.121	0.177	0.077	0.149	-0.220	-0.214
	(0.117)	(0.089)	(0.09)		(0.446)	(0.22)	(0.365)	(0.114)	(0.123)	(0.182)	(0.143)	(0.158)
Other	0.054	0.009	0.145		0.161	0.133	0.054	0.209	-0.099	-0.174	-0.188	-0.216
	(0.224)	(0.2)	(0.287)		(0.192)	(0.195)	(0.253)	(0.227)	(0.166)	(0.216)	(0.188)	(0.222)
Intercept	-0.218	-0.211	-0.211		0.000	-0.134	-0.035	-0.074	-0.112	-0.195	-0.155	-0.149
	(0.332)	(0.393)	(0.308)		(0.084)	(0.162)	(0.105)	(0.189)	(0.174)	(660.0)	(0.152)	(0.462)

(0.383) (0.383) (0.383) (0.383) (0.383) (0.383) (0.182) (0.182) (0.183) (0.174) (0.089) (0.182) (0.182) (0.482) (0.482) (0.482) Notes. ADT = Academic Diligence Task, CG = College graduation, CA = Cognitive ability. Standard errors were calculated from the 95% bootstrap confidence intervals. They are calculated under the assumption of symmetric confidence intervals that are t-distributed. These assumptions do not necessarily hold in the wild bootstrap procedure. † p < .10, * p < .05, ** p < .01, *** p < .001.

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54 SI Dataset S1 (S2-CleanData.dta)

Dataset for Study 2.

56 SI Dataset S2 (S3-CleanData.rda)

Dataset for Study 3.

58 References

1. BM Galla, et al., The Academic Diligence Task (ADT): Assessing individual differences in effort on tedious but important schoolwork. *Contemp. Educ. Psychol.* **39**, 314–325 (2014).