Supplementary material

Table 1A. Cross-lagged panel results for dual process model without controls.

	Outcome variables at t_2					
	BHW		BS		EP	
	B	β	B	β	B	β
Predictors at t_1	(SE)		(SE)		(SE)	
BHW	0.513***	0.184	0.204***	0.075	0.069	0.011
	(0.056)		(0.054)		(0.075)	
BS	0.171**	0.074	0.543***	0.242	0.069	0.014
	(0.052)		(0.039)		(0.075)	
EP	0.128***	0.255	0.043***	0.087	0.734***	0.669
	(0.012)		(0.010)		(0.022)	

Notes: BHW: Parents' belief about hard work; BS: Parents' belief about skills; EP: Educational performance. Control variables are not reported. Dummy controls are assumed as exogenous to reduce missing data. Standardized coefficients reported in log odds. *p<0.05, **p<0.01, ***p<0.001. Model fit: RMSEA=0.009, CFI=0.999, TLI=0.997. Residual covariances between variables within waves are included. Model has been weighted.

Table 2A. Cross-lagged panel results for dual process model of meritocratic beliefs using control variables without hours of homework and cognitive ability.

	Outcome variables at t_2					
	BHW		BS		EP	
	B	β	B	β	B	β
Predictors at t_1	(SE)		(SE)		(SE)	
BHW	0.347***	0.327	0.138***	0.134	0.058	0.026
	(0.037)		(0.030)		(0.039)	
BS	0.091**	0.083	0.347***	0.326	0.054	0.024
	(0.033)		(0.037)		(0.035)	
EP	0.115***	0.214	0.028**	0.054	0.769***	0.689
	(0.013)		(0.011)		(0.024)	

Notes: BHW: Parents' belief about hard work; BS: Parents' belief about skills; EP: Educational performance. Control variables are not reported. Dummy controls are assumed as exogenous to reduce missing data. Standardized coefficients reported in log odds. *p<0.05, **p<0.01, ***p<0.001. Model fit: RMSEA=0.032, CFI=0.961, TLI=0.926. Residual covariances between variables within waves and baseline controls are included. Model has been weighted.

Table 3A. Cross-lagged panel results for dual process model of meritocratic beliefs using parents' subjective assessment of student' performance.

	Outcome variables at t_2					
	BHW		BS		SEP	
	B	β	B	β	B	β
Predictors at t_1	(SE)		(SE)		(SE)	
BHW	0.367***	0.376	0.141***	0.140	0.087***	0.090
	(0.036)		(0.029)		(0.017)	
BS	0.103**	0.095	0.343***	0.324	-0.004	-0.004
	(0.033)		(0.026)		(0.015)	
SEP	0.163***	0.151	0.084***	0.080	0.713***	0.699
	(0.026)		(0.021)		(0.015)	

Notes: BHW: Parents' belief about hard work; BS: Parents' belief about skills; EP: Subjective assessment of educational performance. Control variables are not reported. Dummy controls are assumed as exogenous to reduce missing data. Standardized coefficients reported in log odds. *p<0.05, **p<0.01, ***p<0.001. Model fit: Model fit: RMSEA=0.022, CFI=0.986, TLI=0.946. Residual covariances between variables within waves and baseline controls are included. Model has been weighted.

Table 4A. Cross-lagged panel results for dual process model of meritocratic beliefs using class rank.

| | Outcome variables at t_2 | | | | | |
| | BHW | | BS | | EP | |
Predictors at t_1	B (SE)	β	B (SE)	β	B (SE)	β
BHW	0.376*** (0.042)	0.367	0.170*** (0.033)	0.171	0.088 (0.041)	0.043
BS	0.072*** (0.038)	0.066	0.333*** (0.030)	0.315	0.040 (0.037)	0.018
EP	0.092*** (0.016)	0.169	0.022 (0.013)	0.041	0.831*** (0.029)	0.752

Notes: BHW: Parents' belief about hard work; BS: Parents' belief about skills; EP: Educational performance. Control variables are not reported. Dummy controls are assumed as exogenous to reduce missing data. Standardized coefficients reported in log odds. *p<0.05, **p<0.01, ***p<0.001. Model fit: RMSEA=0.032, CFI=0.958, TLI=0.913. Residual covariances between variables within waves and baseline controls are included. Model has been weighted.