Table S1. Genome-wide meta-analysis results for educational attainment in a sample excluding mothers from the Avon Longitudinal Study of Parents and Children.

Marker	A1	A2	Freq A1	Freq(SE)	z-score	pval^m
rs9320913	A	C	0.4812	0.0211	6.735	1.6×10^{-11}
rs11584700	A	G	0.7804	0.0158	-5.807	6.4×10^{-9}
rs4851266	T	C	0.3965	0.0178	5.913	3.4×10^{-9}

Results are taken from an identical data set to that used by Rietveld et al. [2] having removed the ALSPAC mothers' contribution to this analysis. pval^m represents a p-value for the revised meta-analysis for single-point association.

Table S2. Sex specific estimates of the relationship between English and mathematics SATS z-scores and allele score in the ALSPAC study.

Regression model	SNP	Beta	95%CI	P-value	Number of observations
English z-score					
OLS of English z-score on child's allele score (boys)	Three SNP allele score	0.050	0.018, 0.082	0.002	2,989
OLS of English z-score on child's allele score (girls)		0.032	0.004, 0.061	0.027	2,990
OLS of English z-score on child's allele score (boys)	rs9320913	0.079	0.028, 0.130	0.002	2,989
OLS of English z-score on child's allele score (girls)		0.031	-0.015, 0.078	0.187	2,990
OLS of English z-score on child's allele score (boys)	rs11584700	0.039	-0.023, 0.101	0.215	2,989
OLS of English z-score on child's allele score (girls)		0.031	-0.026, 0.088	0.290	2,990
OLS of English z-score on child's allele score (boys)	rs4851266	0.023	-0.029, 0.075	0.384	2,989
OLS of English z-score on child's allele score (girls)		0.035	-0.013, 0.083	0.158	2,990
Mathematics z-score					
OLS of mathematics z-score on child's allele score (boys)	Three SNP allele score	0.028	-0.004, 0.061	0.084	3,098
OLS of mathematics z-score on child's allele score (girls)		0.028	-0.001, 0.058	0.055	3,047
OLS of mathematics z-score on child's allele score (boys)	rs9320913	0.062	0.011, 0.114	0.018	3,098
OLS of mathematics z-score on child's allele score (girls)		0.025	-0.022, 0.072	0.298	3,047
OLS of mathematics z-score on child's allele score (boys)	rs11584700	0.020	-0.042, 0.083	0.525	3,098
OLS of mathematics z-score on child's allele score (girls)		0.037	-0.021, 0.094	0.211	3,047
OLS of mathematics z-score on child's allele score (boys)	rs4851266	-0.003	-0.056, 0.049	0.899	3,098

		0.026	-0.022, 0.075	0.288	3,047
OLS of mathematics z-score on child's allele score (girls)					

Beta coefficients, 95%CIs and p-values are from a model that included age as a covariable.

Table S3. Estimates of the relationship between English and mathematics SATS z-scores and individual SNPs rs9320913, rs11584700 and rs4851266 in the ALSPAC study.

Regression model	SNP	Beta	95%CI	P-value	Number of observations
English z-score					
OLS of English z-score on child's allele score (all children)	rs9320913	0.055	0.020, 0.089	0.002	5,979
OLS of English z-score on child's allele score, adjusting for maternal allele score (all children)		0.067	0.018, 0.115	0.007	4,008
OLS of English z-score on child's allele score (children without maternal genome-wide data)		0.039	-0.020, 0.099	0.196	1,971
OLS of English z-score on child's allele score (all children), controlling for first four PCs of genetic population structure in ALSPAC		0.055	0.020, 0.089	0.002	5,979
OLS of English z-score on child's allele score (all children)	rs11584700	0.035	-0.007, 0.077	0.102	5,979
OLS of English z-score on child's allele score, adjusting for maternal allele score (all children)		0.021	-0.039, 0.080	0.496	4,008
OLS of English z-score on child's allele score (children without maternal genome-wide data)		0.065	-0.006, 0.137	0.073	1,971
OLS of English z-score on child's allele score (all children), controlling for first four PCs of genetic population structure in ALSPAC		0.034	-0.008, 0.076	0.109	5,979
OLS of English z-score on child's allele score (all children)	rs4851266	0.029	-0.007, 0.064	0.110	5,979

OLS of English z-score on child's allele score, adjusting for maternal allele score (all children)		0.026	-0.023, 0.076	0.296	4,008
OLS of English z-score on child's allele score (children without maternal genome-wide data)		0.013	-0.048, 0.075	0.671	1,971
OLS of English z-score on child's allele score (all children), controlling for first four PCs of genetic population structure in ALSPAC		0.029	-0.006, 0.065	0.107	5,979
Mathematics z-score					
OLS of mathematics z-score on child's allele score (all children)		0.043	0.008, 0.078	0.015	6,145
OLS of mathematics z-score on child's allele score, adjusting for maternal allele score (all children)		0.074	0.024, 0.123	0.003	4,106
OLS of mathematics z-score on child's allele score (children without maternal genome-wide data)	rs9320913	0.031	-0.029, 0.091	0.313	2,039
OLS of mathematics z-score on child's allele score (all children), controlling for first four PCs of genetic population structure in ALSPAC		0.044	0.009, 0.078	0.014	6,145
OLS of mathematics z-score on child's allele score (all children)		0.028	-0.014, 0.071	0.191	6,145
OLS of mathematics z-score on child's allele score, adjusting for maternal allele score (all children)	rs11584700	0.032	-0.028, 0.092	0.290	4,106
OLS of mathematics z-score on child's allele score (children without maternal genome-wide data)		0.016	-0.056, 0.088	0.660	2,039
OLS of mathematics z-score on child's allele score (all		0.027	-0.015, 0.070	0.206	6,145

children), controlling for first four PCs of genetic population structure in ALSPAC					
OLS of mathematics z-score on child's allele score (all children)		0.011	-0.024, 0.047	0.534	6,145
OLS of mathematics z-score on child's allele score, adjusting for maternal allele score (all children)		0.011	-0.039, 0.061	0.675	4,106
OLS of mathematics z-score on child's allele score (children without maternal genome-wide data)	rs4851266	-0.003	-0.064, 0.058	0.926	2,039
OLS of mathematics z-score on child's allele score (all children), controlling for first four PCs of genetic population structure in ALSPAC		0.012	-0.024, 0.048	0.520	6,145

Beta coefficients, 95%CIs and p-values are from a model that included age and sex as covariables.

Table S4. Percentage of variation in the English and mathematics scores explained by the child's allele score and the individual SNPs. The regression models do not include any covariables.

Regression model	R^2	P-value
English z-score		
OLS of English z-score on allele score	0.27%	5.61×10^{-5}
OLS of English z-score on rs9320913	0.18%	0.001
OLS of English z-score on rs11584700	0.06%	0.064
OLS of English z-score on rs4851266	0.05%	0.091
Mathematics z-score		
OLS of mathematics z-score on allele score	0.10%	0.012
OLS of mathematics z-score on rs9320913	0.10%	0.015
OLS of mathematics z-score on rs11584700	0.02%	0.225
OLS of mathematics z-score on rs4851266	0.01%	0.535