

Supplementary Table S1. Complete results of multiple regression analyses predicting year 2 noncognitive skills from year 1 subscales of the Japanese version of the Academic Motivation Scale (AMS-J)

Panel A. dispositional resilience						
Predictor (AMS-J)	Est.	SE	t	p	Std. β	VIF
Intercept	26.336	7.005	3.76	<.001	–	–
AMOT	0.095	0.223	0.43	0.670	0.045	1.51
EMER	-0.015	0.183	-0.08	0.933	-0.010	1.83
EMIN	0.010	0.184	0.06	0.955	0.007	2.27
EMID	0.507	0.423	1.20	0.232	0.152	2.16
IM	0.396	0.308	1.29	0.201	0.167	2.28
NAM–E	0.012	0.145	0.08	0.936	0.008	1.47
NAM–Ex	-0.405	0.242	-1.67	0.098	-0.192	1.78

Panel B. Acquired resilience						
Predictor (AMS-J)	Est.	SE	t	p	Std. β	VIF
Intercept	21.374	4.301	4.97	<.001	–	–
AMOT	0.030	0.137	0.22	0.826	0.023	1.51
EMER	0.282	0.112	2.51	0.013	0.284	1.83
EMIN	-0.170	0.113	-1.51	0.135	-0.189	2.27
EMID	0.269	0.259	1.04	0.303	0.127	2.16
IM	0.304	0.189	1.61	0.110	0.203	2.28
NAM–E	-0.018	0.089	-0.20	0.839	-0.021	1.47
NAM–Ex	-0.247	0.149	-1.66	0.100	-0.185	1.78

Panel C. Social skills						
Predictor (AMS-J)	Est.	SE	t	p	Std. β	VIF
Intercept	34.394	8.619	3.99	<.001	–	–
AMOT	0.341	0.274	1.25	0.215	0.132	1.51
EMER	0.288	0.225	1.28	0.202	0.150	1.83
EMIN	-0.227	0.227	-1.00	0.320	-0.130	2.27
EMID	0.882	0.520	1.70	0.093	0.215	2.16
IM	0.413	0.379	1.09	0.278	0.142	2.28
NAM–E	-0.031	0.178	-0.17	0.862	-0.018	1.47
NAM–Ex	-0.366	0.298	-1.23	0.222	-0.141	1.78

Note: Est., estimate; SE, standard error; Std. β , standardized beta; VIF, variance inflation factor. Predictor abbreviations: AMOT, amotivation; EMER, extrinsic motivation – external regulation; EMIN, extrinsic motivation – introjected regulation; EMID, extrinsic motivation – identified regulation; IM, intrinsic motivation; NAM–E, non-academic motivation – enjoyment of youth; NAM–EX, non-academic motivation – expectations of others.

Supplementary Table S2. Complete results of multiple regression analyses predicting changes in noncognitive skills from year 1 subscales of the Japanese version of the Academic Motivation Scale (AMS-J)

ΔDispositional resilience						
Predictor (AMS-J)	Est.	SE	t	p	Std. β	VIF
Intercept	10.38	5.525	1.88	0.063	0	
AMOT	-0.028	0.176	-0.16	0.875	-0.017	1.51
EMER	0.265	0.144	1.84	0.068	0.217	1.83
EMIN	-0.083	0.146	-0.57	0.571	-0.075	2.27
EMID	-0.428	0.333	-1.29	0.201	-0.165	2.16
IM	-0.199	0.243	-0.82	0.415	-0.108	2.28
NAM-E	-0.055	0.114	-0.49	0.628	-0.051	1.47
NAM-Ex	-0.189	0.191	-0.99	0.324	-0.115	1.78

ΔAcquired resilience						
Predictor (AMS-J)	Est.	SE	t	p	Std. β	VIF
Intercept	8.406	4.099	2.05	0.043	0	
AMOT	-0.095	0.130	-0.73	0.466	-0.077	1.51
EMER	0.254	0.107	2.38	0.019	0.274	1.83
EMIN	-0.221	0.108	-2.05	0.043	-0.263	2.27
EMID	-0.318	0.247	-1.29	0.201	-0.161	2.16
IM	-0.199	0.180	-1.10	0.272	-0.142	2.28
NAM-E	0.051	0.085	0.60	0.548	0.062	1.47
NAM-Ex	-0.049	0.142	-0.35	0.731	-0.039	1.78

ΔSocial skills						
Predictor (AMS-J)	Est.	SE	t	p	Std. β	VIF
Intercept	7.154	8.992	0.80	0.428	0	
AMOT	0.134	0.286	0.47	0.64	0.050	1.51
EMER	0.443	0.234	1.89	0.061	0.224	1.83
EMIN	-0.464	0.237	-1.96	0.052	-0.259	2.27
EMID	-0.678	0.542	-1.25	0.214	-0.161	2.16
IM	0.088	0.395	0.22	0.824	0.029	2.28
NAM-E	0.067	0.186	0.36	0.717	0.039	1.47
NAM-Ex	-0.117	0.311	-0.38	0.708	-0.044	1.78

Note: Est., estimate; SE, standard error; Std. β, standardized beta; VIF, variance inflation factor. Predictor abbreviations: AMOT, amotivation; EMER, extrinsic motivation – external regulation; EMIN, extrinsic motivation – introjected regulation; EMID, extrinsic motivation – identified regulation; IM, intrinsic motivation; NAM-E, non-academic motivation – enjoyment of youth; NAM-EX, non-academic motivation – expectations of others.

Supplementary Table S3. Complete results of multiple regression analyses predicting changes in noncognitive skills from the changes in the subscales of the Japanese version of the Academic Motivation Scale (AMS-J)

Panel A. Δdispositional resilience						
Predictor (ΔAMS-J)	Est.	SE	t	p	Std. β	VIF
Intercept	0.108	0.558	0.19	0.847	–	–
AMOT	0.086	0.113	0.77	0.444	0.065	1.32
EMER	-0.001	0.118	-0.01	0.991	-0.001	1.81
EMIN	-0.033	0.119	-0.27	0.784	-0.029	1.99
EMID	0.258	0.196	1.31	0.191	0.142	2.13
IM	0.614	0.164	3.74	0.003	0.404	2.13
NAM–E	0.229	0.104	2.21	0.029	0.212	1.68
NAM–Ex	-0.201	0.157	-1.28	0.203	-0.124	1.71

Panel B. ΔAcquired resilience						
Predictor (ΔAMS-J)	Est.	SE	t	p	Std. β	VIF
Intercept	0.483	0.448	1.08	0.283	–	–
AMOT	0.032	0.090	0.35	0.727	0.031	1.32
EMER	-0.025	0.095	-0.27	0.791	-0.028	1.81
EMIN	0.048	0.096	0.50	0.620	0.055	1.99
EMID	0.358	0.157	2.28	0.025	0.260	2.13
IM	0.356	0.132	2.71	0.008	0.309	2.13
NAM–E	0.011	0.083	0.13	0.897	0.013	1.68
NAM–Ex	-0.109	0.126	-0.86	0.389	-0.088	1.71

Panel C. ΔSocial skills						
Predictor (ΔAMS-J)	Est.	SE	t	p	Std. β	VIF
Intercept	1.327	0.951	1.40	0.166	–	–
AMOT	0.105	0.192	0.55	0.584	0.049	1.32
EMER	-0.079	0.201	-0.39	0.695	-0.041	1.81
EMIN	0.201	0.203	0.99	0.325	0.109	1.99
EMID	0.010	0.334	0.03	0.976	0.003	2.13
IM	0.856	0.280	3.06	0.003	0.348	2.13
NAM–E	0.418	0.177	2.37	0.020	0.239	1.68
NAM–Ex	-0.273	0.267	-1.02	0.309	-0.104	1.71

Note: Est., estimate; SE, standard error; Std. β , standardized beta; VIF, variance inflation factor.

Predictor abbreviations: AMOT, amotivation; EMER, extrinsic motivation – external regulation;

EMIN, extrinsic motivation – introjected regulation; EMID, extrinsic motivation – identified

regulation; IM, intrinsic motivation; NAM–E, non-academic motivation – enjoyment of youth;

NAM–EX, non-academic motivation – expectations of others.