

Supplementary Materials

Manuscript “Development of Monitoring and Control in Elementary School: A Latent Profile Approach”

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Correlations between the LPA indicator variables for Measurement 1

Correlations between performance, monitoring accuracy, effective restudy, and decision accuracy at measurement point 1.

Variable.	1	2	3	4	5	6	7	8
1. Test Performance Text	1	.052	.041	.667**	.171*	.195*	.047	.114
2. CJ Discrimination Text	-.021	1	.219*	.405**	.191*	.033	.040	.010
3. Effective Restudy Text	.073	.198*	1	.203*	.214*	-.044	.188*	-.020
4. Decision Accuracy Text	.348**	.358**	.192*	1	.286**	.134	.077	.166
5. Test Performance Kanji	.198*	.045	.207*	.118	1	.160	.185*	.312**
6. CJ Discrimination Kanji	.054	.002	-.008	.131	.195**	1	.117	.236**
7. Effective Restudy Kanji	.199*	.155	.361**	.250**	.125	.308**	1	.197*
8. Decision Accuracy Kanji	.244**	.008	.115	.128	.215**	.285**	.205**	1

Note. Correlations for second graders above the diagonal, correlations for fourth graders below the diagonal. * $p < .05$, ** $p < .01$.

Correlations between the LPA indicator variables for Measurement 2

Correlations between performance, monitoring accuracy, effective restudy, and decision accuracy at measurement point 2.

Variable.	1	2	3	4	5	6	7	8
1. Test Performance Text	1	-.138	.080	.234**	.150	.238**	.171	.184*
2. CJ Discrimination Text	.006	1	.005	.179*	-.008	.165	.041	.014
3. Effective Restudy Text	.171*	.162*	1	-.001	-.055	.082	.501**	.002
4. Decision Accuracy Text	.162*	.524**	.052	1	.145	.072	.121	.049
5. Test Performance Kanji	.262**	-.035	.069	.188*	1	.183*	-.021	.283**
6. CJ Discrimination Kanji	.124	.045	.053	.067	.202*	1	.095	.341**
7. Effective Restudy Kanji	.147	.028	.291**	.029	-.041	.091	1	-.026
8. Decision Accuracy Kanji	.185*	.048	.051	.293**	.570**	.243**	.009	1

Note. Correlations for second graders above the diagonal, correlations for fourth graders below the diagonal. * $p < .05$, ** $p < .01$.

Model fit indices for the LPAs for the full sample

Number of profiles	Log L	BIC	AIC	Entropy R ²
Measurement Point 1				
1	-2177.67	4422.17	4379.35	1
2	-1908.9	3962.58	3869.80	0.96
3	-1783.08	3788.90	3646.17	0.94
4	-1710.68	3722.06	3529.37	0.92
5	-1670.08	3718.82	3476.17	0.89
6	-1623.49	3703.58	3410.98	0.92
Measurement Point 2				
1	-2237.93	4542.96	4499.87	1.00
2	-2040.37	4226.10	4132.74	0.96
3	-1878.28	3980.19	3836.55	0.94
4	-1822.80	3947.51	3753.60	0.84
5	-1769.91	3920.01	3675.82	0.90
6	-1732.17	3922.80	3628.34	0.95

Note. Solutions with a maximum of 6 latent profile profiles for measurement point 1 and measurement point 2.

Profiles, prevalences, and means for the indicator variables for the LPAs for the full sample

Profile Nr and Prevalence	Monitoring Accuracy Text	Effective Restudy Text	Decision Accuracy Text	Monitoring Accuracy Kanji	Effective Restudy Kanji	Decision Accuracy Kanji
Measurement Point 1						
1 (27.5%)	0.53 (1.03)	0.00 (0.00)	0.61 (0.19)	1.19 (0.91)	0.64 (0.29)	0.63 (0.15)
2 (19.5%)	0.69 (1.02)	0.58 (0.29)	0.60 (0.17)	0.86 (1.03)	0.36 (0.31)	0.53 (0.15)
3 (20.2%)	1.70 (1.42)	0.72 (0.30)	0.67 (0.18)	1.41 (0.98)	1.00 (0.00)	0.65 (0.13)
4 (16.4%)	0.82 (1.58)	0.00 (0.00)	0.59 (0.21)	0.83 (0.85)	0.00 (0.00)	0.54 (0.20)
5 (16.4%)	1.59 (1.29)	0.57 (0.24)	0.71 (0.07)	1.09 (0.95)	0.41 (0.28)	0.73 (0.07)
Measurement Point 2						
1 (31.7%)	2.10 (1.45)	0.58 (0.38)	0.71 (0.17)	1.74 (1.28)	1.00 (0.00)	0.70 (0.13)
2 (25.7%)	1.60 (1.19)	0.47 (0.34)	0.62 (0.14)	1.45 (1.13)	0.41 (0.27)	0.70 (0.11)
3 (25.4%)	2.79 (1.11)	0.41 (0.32)	0.85 (0.07)	1.29 (1.11)	0.42 (0.27)	0.69 (0.17)
4 (17.2%)	1.84 (1.46)	0.00 (0.00)	0.68 (0.20)	1.63 (1.28)	0.00 (0.00)	0.73 (0.16)

Note. Standard deviations in parentheses.

Interpretation of the significant effect of the covariate Grade for Measurement 1

The weighted odds ratios, indicating the odds for being in Grade 2 compared to Grade 4 in each profile, accounting for differences between grades in participant numbers, were 1.26 for Profile 1, 1.60 for Profile 2, 0.55 for Profile 3, 2.19 for Profile 4, and 0.28 for Profile 5.

Interpretation of the significant effect of the covariate Grade for Measurement 2

The weighted odds ratios, indicating the odds for being in Grade 2 compared to Grade 4 in each profile, accounting for the proportion of each grade level in the overall sample, were 1.61 for Profile 1, 0.42 for Profile 2, 0.85 for Profile 3, and 1.97 for Profile 4.