

Table S1. Number of children, mean age (\pm standard deviation) and mean score (\pm standard deviation) at T0 and T1 per grade, gender, and proficiency level for the walking backwards test.

	Grade	Overall group				'Low scores' category				'Average scores' category				'High scores' category			
		N	Age	T0	T1	N	Age	T0	T1	N	Age	T0	T1	N	Age	T0	T1
<i>Total</i>	3rd	382	6.5 \pm 0.5	25 \pm 11	29 \pm 11	61	6.5 \pm 0.5	10 \pm 3	19 \pm 7	248	6.5 \pm 0.5	24 \pm 6	29 \pm 10	73	6.6 \pm 0.5	41 \pm 10	35 \pm 11
	4th	422	7.6 \pm 0.5	29 \pm 11	34 \pm 13	65	7.6 \pm 0.6	13 \pm 4	23 \pm 10	283	7.6 \pm 0.5	29 \pm 7	33 \pm 12	74	7.7 \pm 0.5	46 \pm 6	45 \pm 10
	5th	425	8.6 \pm 0.5	34 \pm 12	40 \pm 13	72	8.4 \pm 0.4	17 \pm 4	30 \pm 10	278	8.6 \pm 0.5	33 \pm 6	40 \pm 12	75	8.6 \pm 0.5	52 \pm 4	52 \pm 9
	6th	440	9.6 \pm 0.5	39 \pm 13	45 \pm 13	74	9.6 \pm 0.5	20 \pm 5	32 \pm 11	291	9.6 \pm 0.4	39 \pm 7	45 \pm 11	75	9.5 \pm 0.5	57 \pm 7	58 \pm 10
	7th	474	10.6 \pm 0.5	41 \pm 13	45 \pm 13	72	10.5 \pm 0.5	20 \pm 6	31 \pm 10	314	10.6 \pm 0.5	41 \pm 8	46 \pm 11	88	10.5 \pm 0.5	59 \pm 6	56 \pm 11
	8th	451	11.6 \pm 0.5	44 \pm 13	48 \pm 13	78	11.7 \pm 0.6	24 \pm 6	33 \pm 11	293	11.6 \pm 0.5	45 \pm 7	49 \pm 11	80	11.5 \pm 0.4	62 \pm 5	60 \pm 9
<i>Boys</i>	3rd	170	6.5 \pm 0.5	22 \pm 10	26 \pm 10	29	6.4 \pm 0.5	9 \pm 2	18 \pm 7	106	6.5 \pm 0.5	21 \pm 6	27 \pm 10	35	6.6 \pm 0.5	37 \pm 7	32 \pm 9
	4th	232	7.6 \pm 0.4	27 \pm 11	31 \pm 12	36	7.6 \pm 0.6	11 \pm 2	22 \pm 9	156	7.6 \pm 0.4	26 \pm 6	30 \pm 10	40	7.7 \pm 0.4	43 \pm 5	44 \pm 9
	5th	209	8.6 \pm 0.4	32 \pm 12	38 \pm 14	39	8.4 \pm 0.4	17 \pm 4	28 \pm 11	135	8.6 \pm 0.4	31 \pm 6	37 \pm 12	35	8.5 \pm 0.5	51 \pm 5	53 \pm 9
	6th	211	9.6 \pm 0.5	35 \pm 12	42 \pm 12	37	9.6 \pm 0.7	18 \pm 4	29 \pm 10	138	9.6 \pm 0.4	35 \pm 7	42 \pm 11	33	9.6 \pm 0.6	52 \pm 5	54 \pm 9
	7th	217	10.6 \pm 0.5	38 \pm 12	42 \pm 12	33	10.5 \pm 0.5	18 \pm 4	28 \pm 8	143	10.7 \pm 0.6	38 \pm 6	43 \pm 10	41	10.5 \pm 0.5	54 \pm 5	51 \pm 11
	8th	208	11.6 \pm 0.5	41 \pm 13	45 \pm 14	37	11.7 \pm 0.6	21 \pm 4	30 \pm 9	132	11.6 \pm 0.5	42 \pm 7	46 \pm 11	39	11.5 \pm 0.4	59 \pm 5	57 \pm 10
<i>Girls</i>	3rd	212	6.5 \pm 0.4	27 \pm 12	31 \pm 11	32	6.5 \pm 0.5	11 \pm 4	19 \pm 7	142	6.4 \pm 0.4	26 \pm 6	31 \pm 10	38	6.6 \pm 0.5	45 \pm 10	38 \pm 11
	4th	190	7.6 \pm 0.5	32 \pm 12	36 \pm 13	29	7.6 \pm 0.6	14 \pm 5	24 \pm 11	127	7.6 \pm 0.5	31 \pm 6	37 \pm 12	34	7.7 \pm 0.6	49 \pm 5	45 \pm 12
	5th	216	8.6 \pm 0.5	36 \pm 11	43 \pm 12	33	8.4 \pm 0.4	18 \pm 4	33 \pm 9	143	8.6 \pm 0.6	35 \pm 6	42 \pm 11	40	8.6 \pm 0.5	53 \pm 4	52 \pm 10
	6th	229	9.6 \pm 0.4	42 \pm 13	48 \pm 13	37	9.5 \pm 0.4	22 \pm 5	34 \pm 12	153	9.5 \pm 0.4	42 \pm 7	48 \pm 11	39	9.5 \pm 0.5	61 \pm 5	61 \pm 9
	7th	257	10.5 \pm 0.5	44 \pm 14	48 \pm 13	39	10.5 \pm 0.5	22 \pm 7	34 \pm 12	171	10.6 \pm 0.5	43 \pm 8	48 \pm 11	47	10.6 \pm 0.5	62 \pm 4	59 \pm 9
	8th	243	11.6 \pm 0.5	47 \pm 13	50 \pm 12	41	11.6 \pm 0.5	27 \pm 5	37 \pm 11	161	11.7 \pm 0.6	47 \pm 7	51 \pm 10	41	11.5 \pm 0.4	65 \pm 4	63 \pm 7

Table S2. Number of children, mean age (\pm standard deviation) and mean score (\pm standard deviation) at T0 and T1 per grade, gender, and proficiency level for the moving sideways test.

	Grade	Overall group				'Low scores' category				'Average scores' category				'High scores' category			
		N	Age	T0	T1	N	Age	T0	T1	N	Age	T0	T1	N	Age	T0	T1
<i>Total</i>	3rd	382	6.5 \pm 0.5	31 \pm 6	31 \pm 8	61	6.4 \pm 0.4	21 \pm 2	26 \pm 7	239	6.5 \pm 0.5	31 \pm 3	30 \pm 7	82	6.6 \pm 0.5	39 \pm 3	37 \pm 7
	4th	422	7.6 \pm 0.5	36 \pm 7	38 \pm 8	70	7.5 \pm 0.4	26 \pm 3	32 \pm 8	249	7.6 \pm 0.5	35 \pm 3	38 \pm 7	103	7.7 \pm 0.5	44 \pm 3	44 \pm 7
	5th	425	8.6 \pm 0.5	39 \pm 7	43 \pm 8	71	8.6 \pm 0.4	27 \pm 3	35 \pm 8	270	8.6 \pm 0.5	39 \pm 4	43 \pm 6	84	8.6 \pm 0.4	49 \pm 3	49 \pm 6
	6th	440	9.6 \pm 0.6	43 \pm 8	46 \pm 8	72	9.6 \pm 0.6	31 \pm 4	39 \pm 6	284	9.6 \pm 0.4	43 \pm 4	46 \pm 7	84	9.5 \pm 0.4	54 \pm 4	51 \pm 8
	7th	474	10.6 \pm 0.5	45 \pm 8	48 \pm 8	77	10.5 \pm 0.5	33 \pm 4	41 \pm 7	298	10.6 \pm 0.5	45 \pm 4	48 \pm 7	99	10.6 \pm 0.5	55 \pm 3	55 \pm 8
	8th	451	11.6 \pm 0.5	47 \pm 9	51 \pm 9	78	11.7 \pm 0.6	34 \pm 4	42 \pm 8	293	11.6 \pm 0.5	47 \pm 4	51 \pm 7	80	11.6 \pm 0.5	60 \pm 5	59 \pm 7
<i>Boys</i>	3rd	170	6.5 \pm 0.5	31 \pm 6	32 \pm 9	28	6.5 \pm 0.4	21 \pm 3	26 \pm 8	109	6.5 \pm 0.5	31 \pm 3	31 \pm 7	33	6.6 \pm 0.5	40 \pm 2	39 \pm 7
	4th	232	7.6 \pm 0.4	36 \pm 7	39 \pm 8	36	7.6 \pm 0.5	26 \pm 3	32 \pm 7	144	7.6 \pm 0.4	35 \pm 3	38 \pm 7	52	7.7 \pm 0.5	44 \pm 4	45 \pm 7
	5th	209	8.6 \pm 0.4	39 \pm 8	43 \pm 9	36	8.6 \pm 0.4	27 \pm 4	33 \pm 8	128	8.6 \pm 0.5	39 \pm 3	43 \pm 6	45	8.6 \pm 0.4	49 \pm 3	51 \pm 5
	6th	211	9.6 \pm 0.5	43 \pm 9	46 \pm 9	32	9.7 \pm 0.7	30 \pm 3	39 \pm 6	140	9.6 \pm 0.4	43 \pm 5	46 \pm 8	39	9.5 \pm 0.5	55 \pm 4	52 \pm 9
	7th	217	10.6 \pm 0.5	45 \pm 8	49 \pm 8	35	10.6 \pm 0.5	32 \pm 4	41 \pm 8	139	10.6 \pm 0.5	45 \pm 4	49 \pm 7	43	10.6 \pm 0.5	55 \pm 3	55 \pm 7
	8th	208	11.6 \pm 0.5	47 \pm 9	51 \pm 9	34	11.7 \pm 0.6	34 \pm 5	42 \pm 6	139	11.5 \pm 0.5	47 \pm 4	51 \pm 7	35	11.6 \pm 0.4	61 \pm 4	59 \pm 8
<i>Girls</i>	3rd	212	6.5 \pm 0.4	31 \pm 6	31 \pm 8	33	6.4 \pm 0.4	21 \pm 2	27 \pm 7	130	6.5 \pm 0.5	30 \pm 3	30 \pm 7	49	6.6 \pm 0.5	39 \pm 3	36 \pm 7
	4th	190	7.6 \pm 0.5	35 \pm 6	38 \pm 8	34	7.5 \pm 0.3	25 \pm 3	31 \pm 7	105	7.6 \pm 0.5	35 \pm 3	38 \pm 7	51	7.7 \pm 0.6	43 \pm 3	43 \pm 7
	5th	216	8.6 \pm 0.5	39 \pm 7	43 \pm 7	35	8.5 \pm 0.5	27 \pm 3	37 \pm 6	142	8.6 \pm 0.6	39 \pm 4	43 \pm 7	39	8.6 \pm 0.5	49 \pm 3	47 \pm 6
	6th	229	9.5 \pm 0.4	43 \pm 8	46 \pm 8	40	9.5 \pm 0.4	31 \pm 5	39 \pm 6	144	9.5 \pm 0.4	43 \pm 4	46 \pm 7	45	9.5 \pm 0.3	54 \pm 3	51 \pm 7
	7th	257	10.5 \pm 0.5	45 \pm 8	48 \pm 8	42	10.5 \pm 0.5	33 \pm 3	40 \pm 7	159	10.6 \pm 0.5	45 \pm 4	48 \pm 6	56	10.5 \pm 0.4	56 \pm 4	55 \pm 8

8th	243	11.6±0.5	47±8	51±9	44	11.7±0.6	35±4	41±9	154	11.6±0.5	47±4	51±7	45	11.6±0.5	59±5	59±5
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Table S3. Number of children, mean age (±standard deviation) and mean score (±standard deviation) at T0 and T1 per grade, gender, and proficiency level for the jumping sideways test.

		Overall group				‘Low scores’ category				‘Average scores’ category				‘High scores’ category			
	Grade	N	Age	T0	T1	N	Age	T0	T1	N	Age	T0	T1	N	Age	T0	T1
Total	3rd	382	6.5±0.5	38±10	43±12	60	6.4±0.4	24±3	32±8	254	6.5±0.5	37±6	42±9	68	6.6±0.5	55±5	56±8
	4th	422	7.6±0.5	46±12	51±12	71	7.5±0.5	30±5	40±10	277	7.6±0.5	46±6	50±10	74	7.7±0.5	64±6	65±9
	5th	425	8.6±0.5	53±12	58±13	72	8.4±0.4	34±6	44±12	271	8.6±0.5	53±6	58±11	82	8.7±0.5	70±5	70±10
	6th	440	9.6±0.6	60±13	67±14	68	9.6±0.6	39±5	50±12	292	9.5±0.4	59±7	67±11	80	9.6±0.5	78±6	80±11
	7th	474	10.6±0.5	64±12	70±14	79	10.6±0.5	46±7	55±11	310	10.6±0.5	64±7	69±11	85	10.6±0.5	82±6	84±10
	8th	451	11.6±0.5	71±13	75±14	83	11.7±0.6	53±8	62±13	289	11.6±0.5	71±6	75±11	79	11.6±0.5	89±6	89±12
Boys	3rd	170	6.5±0.5	40±10	43±12	27	6.5±0.4	25±3	34±8	111	6.5±0.5	39±6	41±10	32	6.6±0.5	56±4	56±10
	4th	232	7.6±0.4	46±12	51±13	36	7.6±0.5	29±4	41±10	156	7.6±0.5	46±6	50±11	40	7.6±0.3	65±7	65±10
	5th	209	8.6±0.4	53±13	57±14	35	8.5±0.4	33±6	41±12	134	8.6±0.5	53±6	59±11	40	8.6±0.4	70±6	69±12
	6th	211	9.6±0.5	60±13	67±13	33	9.6±0.6	40±5	52±11	139	9.6±0.5	60±7	67±11	39	9.6±0.5	78±6	80±8
	7th	217	10.6±0.5	66±12	71±13	39	10.7±0.6	48±6	57±12	140	10.6±0.5	66±6	71±10	38	10.5±0.5	83±4	85±8
	8th	208	11.6±0.5	71±13	76±14	39	11.8±0.7	52±9	63±12	132	11.5±0.4	72±7	77±11	37	11.5±0.4	90±5	90±13
Girls	3rd	212	6.5±0.4	36±10	42±11	33	6.4±0.4	24±2	31±8	143	6.5±0.4	35±5	42±9	36	6.6±0.5	54±5	56±7
	4th	190	7.6±0.5	46±11	51±12	35	7.4±0.3	30±6	38±9	121	7.6±0.5	46±6	51±9	34	7.8±0.6	63±5	65±7
	5th	216	8.6±0.5	53±12	59±13	37	8.4±0.4	34±5	46±11	137	8.6±0.6	52±6	58±10	42	8.7±0.5	69±5	71±9
	6th	229	9.5±0.4	59±13	66±14	35	9.6±0.5	39±6	49±12	153	9.5±0.4	59±6	66±11	41	9.6±0.5	79±6	80±13
	7th	257	10.5±0.5	63±13	69±14	40	10.5±0.5	44±6	53±10	170	10.5±0.5	63±6	68±10	47	10.6±0.6	81±7	83±12
	8th	243	11.6±0.5	71±12	74±14	44	11.6±0.6	53±7	60±13	157	11.7±0.5	71±5	74±11	42	11.6±0.5	88±6	88±11

Table S4. Number of children, mean age (±standard deviation) and mean score (±standard deviation) at T0 and T1 per grade, gender, and proficiency level for the eye hand coordination test.

Overall group						‘Low scores’ category				‘Average scores’ category				‘High scores’ category			
	Grade	N	Age	T0	T1	N	Age	T0	T1	N	Age	T0	T1	N	Age	T0	T1
Total	5 th	425	8.6±0.5	10±10	22±14	82	8.4±0.4	0±1	10±9	263	8.5±0.5	9±6	22±13	80	8.7±0.5	26±6	33±12
	6 th	440	9.6±0.5	18±13	25±13	73	9.5±0.4	2±2	11±10	288	9.6±0.7	16±9	24±11	79	9.7±0.5	38±6	37±10
	7 th	474	10.6±0.5	24±14	30±14	74	10.5±0.5	4±3	16±11	301	10.5±0.5	22±9	30±12	99	10.7±0.5	43±7	44±11
	8 th	451	11.6±0.5	32±15	38±14	71	11.6±0.6	10±6	26±13	292	11.6±0.5	31±9	38±12	88	11.6±0.5	51±6	49±13
Boys	5 th	209	8.6±0.4	13±10	25±14	37	8.4±0.4	1±1	14±10	132	8.6±0.4	12±6	24±13	40	8.8±0.5	29±4	36±11
	6 th	211	9.6±0.5	22±13	28±12	37	9.5±0.4	4±2	14±10	133	9.6±0.5	21±8	29±9	41	9.8±0.6	40±5	39±12
	7 th	217	10.6±0.5	29±14	35±14	33	10.6±0.6	6±4	19±13	132	10.6±0.5	28±8	34±11	52	10.6±0.5	46±6	48±8
	8 th	208	11.6±0.5	36±14	42±14	33	11.6±0.5	14±6	28±12	135	11.6±0.5	36±7	42±12	40	11.5±0.4	54±5	54±11
Girls	5 th	216	8.6±0.5	8±9	19±14	45	8.5±0.5	0±0	8±7	131	8.5±0.6	6±4	19±13	40	8.7±0.5	23±5	30±14
	6 th	229	9.5±0.7	14±12	21±13	36	9.4±0.4	0±1	8±9	155	9.5±0.4	12±7	20±12	38	9.5±0.4	36±6	36±9
	7 th	257	10.5±0.5	19±13	27±14	41	10.5±0.6	2±1	13±9	169	10.5±0.4	18±8	26±11	47	10.8±0.5	40±7	39±12
	8 th	243	11.6±0.5	28±14	34±13	38	11.6±0.6	6±4	24±15	157	11.6±0.5	27±8	34±11	48	11.7±0.5	48±6	44±12

Table S5. Percentage of children with negative (NED), no (NOD), and positive (POD) development per grade, gender, and proficiency level.

WB			MS			JS			EHC		
NED	NOD	POD	NED	NOD	POD	NED	NOD	POD	NED	NOD	POD

Grade	3 rd	24.1%	18.1%	57.9%	33.2%	28.0%	38.7%	10.2%	47.9%	41.9%			
	4 th	28.2%	16.4%	55.5%	18.2%	29.6%	52.1%	13.0%	41.2%	45.7%			
	5 th	21.2%	14.6%	64.2%	17.2%	23.5%	59.3%	15.3%	34.6%	50.1%	9.2%	15.8%	75.1%
	6 th	19.3%	19.1%	61.6%	22.0%	21.1%	56.8%	11.4%	33.4%	55.2%	16.6%	17.0%	66.4%
	7 th	24.5%	16.5%	59.1%	20.5%	23.4%	56.1%	10.5%	42.0%	47.5%	15.6%	18.6%	65.8%
	8 th	26.6%	19.3%	54.1%	18.2%	23.7%	58.1%	12.4%	43.7%	43.9%	19.3%	15.7%	65.0%
Gender	Boys	23.3%	17.5%	59.3%	20.9%	23.3%	55.8%	13.7%	38.3%	48.0%	16.3%	15.1%	68.5%
	Girls	24.6%	17.1%	58.2%	21.7%	26.2%	52.1%	10.7%	42.3%	47.0%	14.3%	18.3%	67.4%
Proficiency level	Low scores	6.6%	11.1%	82.2%	9.1%	16.1%	74.8%	5.3%	32.1%	62.6%	0.7%	20.7%	78.7%
	Average scores	22.3%	18.1%	59.6%	19.4%	24.6%	56.0%	10.9%	40.3%	48.8%	13.1%	14.9%	72.0%
	High scores	46.0%	20.0%	34.0%	37.2%	32.3%	30.5%	23.1%	48.1%	28.8%	35.0%	19.9%	45.1%

WB: walking backwards; MS: moving sideways; JS: jumping sideways; EHC: eye-hand coordination.