Supplementary material: Descriptive data and statistical analysis

Table 1. Student 1 Attention

Within conditions	A1	B1	A2	B2
M, Mdn, range	M=2.3	M=3.93	M=2.38	M=4.04
_	Mdn=2.4	Mdn=3.98	Mdn=2.43	Mdn=4.08
	Range=2-2.4	Range=3.55-4.2	Range=1.9-2.75	Range=3.6-4.4
Stability	-	-	-	
+/- 25% Mdn 0.6	1.8-3	3.38-4.58	1.83-3.03	3.48-4.68
80% = stable	4/4 stable	4/4 stable	4/4 stable	4/4 stable
Stability -trend	2.4-2.2	3.78-4.08	2.55-2.2	4.25-3.83
	decelerating	accelerating	decelerating	decelerating
Between conditions	A1->B1	$B1 \rightarrow A2$	$A2 \rightarrow B2$	A->B
Relative level change	2.2 - 3.78 = 1.58	4.08 - 2.55 = 1.53	2.2-4.25=	
	improved	deteriorated	improved	
Absolute level change	2	-1.6	2.2	
Median level change	1.58	-1.55	1.65	
Mean level change	1.63	-1.55	-1.66	
PND:	100%	100%	100%	100%
POD:	0%	0%	0%	0%

Note. A1 & A2 = joint reading, B1 & B2 = MSMD. PND = percent non overlapping data, POD= percent overlapping data.

Table 2. Student 1 Initiation

Within conditions	A1	B1	A2	B2
M, Mdn, range	M=3.19	M=3.84	M=3.32	M=4.07
	Mdn=3.14	Mdn=3.87	Mdn=3.23	Mdn=4.1
	Range=2.87-3.6	Range=3.67- 3.93	Range=3-3.47	Range=3.73-4.33
Stability	2.35-3.93	3.05-4.66	2.44-4.02	3.31-4.89
+/- 25% Mdn 0.79 80%=stable	4/4 stable	4/4 stable	4/4 stable	4/4 stable
Stability -trend	3.34-3.04	3.8-3.87	3.3-3.17	4.23-3.9
	decelerating	accelerating	decelerating	decelerating
Between conditions	A1->B1	$B1 \rightarrow A2$	$A2 \rightarrow B2$	A->B
Relative level change	3.02-3.8=0.78 improved	3.87-3.3=-0.57 deteriorated	3.17-4.23=1.06 improved	
Absolute level change	0.80 improved	-0.40 deteriorated	1.13 improved	
Median level change	0.73 improved	-0.64 deteriorated	0.87 improved	

Mean level change	0.65 improved	-0.52 deteriorated	0.75 improved	
PND:	100%	100%	100%	100%
POD:	0%	0%	0%	0%

Note. A1 & A2 = joint reading, B1 & B2 = MSMD. PND = percent non overlapping data, POD= percent overlapping data.

Table 3. Student 1 School staff member ratings

Within conditions	A1	B1	A2	B2
M, Mdn, range	M=7.5	M=16.75	M=10.75	M=18
_	Mdn=7	Mdn=18	Mdn=10.5	Mdn=17
	Range=6-10	Range=7-20	Range=8-14	Range=16-19
Stability	5.25-8.75	16.75-19.75	8.75-12.25	15.25-18.75
+/- 25% Mdn 1.75	3/4 75%	0/4	2/4	4/4 stable
80%=stable	variable	variable	variable	
Stability -trend	8.5-6.5	11.5-20	12-9.5	19-17 decelerating
	decelerating	accelerating	decelerating	-
Between conditions	A1-B1	$B1 \rightarrow A2$	$A2 \rightarrow B2$	A->B
Relative level change	5 improved	-8 deteriorated	9.5 improved	
Absolute level change	1 improved	-6 deteriorated	11 improved	
Median level change	11 improved	-7.5 deteriorated	6.5 improved	
Mean level change	9.25 improved	-6 deteriorated	7.25 improved	
PND:	75%	75%	100%	88%
POD:	25%	25%	0%	13%

Note. A1 & A2 = joint reading, B1 & B2 = MSMD. PND = percent non overlapping data, POD= percent overlapping data.

Table 4. Student 2 Attention

Within conditions	A1	B1	A2	B2
M, Mdn, range	M=2.68	M=4.1	M=2.5	M=4.03
	Mdn=2.68	Mdn=4.1	Mdn=2.53	Mdn=4
	Range=2.35-3	Range=3.95- 4.25	Range=2.3-2.65	Range=3.85-4.25
Stability				
+/- 25% Mdn=0.67	2.01-3.35	4.1-4.77	1.86-3.2	3.33-4.67
80%=stable	4/4 stable	4/4 stable	4/4 stable	4/4 stable
Stability -trend	2.95-2.4	4.1-4.1	2.48-2.53	4.05-4
	decelerating	flat	accelerating	decelerating
Between conditions	A1->B1	$B1 \rightarrow A2$	$A2 \rightarrow B2$	A->B
Relative level change	1.05 improved	-1.62	1.52 improved	
		deteriorated		
Absolute level change	1.9 improved	-1.8 deteriorated	1.25 improved	
Median level change	1.42 improved	-1.57 deteriorated	1.47 improved	

Mean level change	1.42 improved	-1.6 deteriorated	1.53 improved	
PND:	100%	100%	100%	100%
POD:	0%	0%	0%	0%

Note. A1 & A2 = joint reading, B1 & B2 = MSMD. PND = percent non overlapping data, POD= percent overlapping data.

Table 5. Student 2 Initiation

Within conditions	A1	B1	A2	B2
M, Mdn, range	M=2.32	M=3.33	M=2.52	M=3.37
	Mdn=2.4	Mdn=3.33	Mdn=2.5	Mdn=3.33
	Range=1.87-2.6	Range=3.2-3.47	Range=2.33-2.8	Range=3.27-3.53
Stability				
+/- 25% Mdn 0.6	1.8-3	2.73-3.93	1.9-3.1	2.73-3.93
80%=stable	4/4 stable	4/4 stable	4/4 stable	4/4 stable
Stability -trend	2.57-2.07	3.3-3.4	2.3-2.74	3.33-3.4
	decelerating	accelerating	accelerating	accelerating
Between conditions	A1->B1	$B1 \rightarrow A2$	$A2 \rightarrow B2$	A->B
Relative level change	1.23 improved	-1.1 deteriorated	0.59 improved	
Absolute level change	1.33 improved	-1.2 deteriorated	0.66 improved	
Median level change	0.93 improved	-0.83	0.83 improved	
	_	deteriorated	_	
Mean level change	1.01 improved	-0.81	0.85 improved	
-	_	deteriorated	_	
PND:	100%	100%	100%	100%
POD:	0%	0%	0%	0%

Note. A1 & A2 = joint reading, B1 & B2 = MSMD. PND = percent non overlapping data, POD= percent overlapping data.

Table 6. Student 2 School staff member ratings

Within conditions	A1	B1	A2	B2
M, Mdn, range	M=5.25	M=15.5	M=5.25	M=15.5
	Mdn=5	Mdn=16.5	Mdn=4	Mdn=15.5
	Range=5-6	Range=11-18	Range=3-10	Range=12-19
Stability	3.75-6.25	15.25-17.75	2.75-5.25	14.25-16.75
+/- 25% Mdn 1.25	4/4	0/4	3/4	2/4
80%=stable	stable	variable	variable	variable
Stability -trend	5-5.5 accelerating	14.5-16.5 accelerating	3.5-7 accelerating	13.5-17.5 accelerating
Between conditions	A1-B1	$B1 \rightarrow A2$	$A2 \rightarrow B2$	A->B
Relative level change	9 improved	-13 deteriorated	6.5 improved	
Absolute level change	6 improved	-14 deteriorated	2 improved	
Median level change	11.5 improved	-12.5	11.5 improved	
		deteriorated		

Mean level change	10.25 improved	-10.25 deteriorated	10.25 improved	
PND:	100%	100%	100%	100%
POD:	0%	0%	0%	0%

Note. A1 & A2 = joint reading, B1 & B2 = MSMD. PND = percent non overlapping data, POD= percent overlapping data.

Table 7. Student 3 Attention

Within conditions	B1	A1	B2	A2
M, Mdn, range	M=4.01	M=3.31	M=3.89	M=3.24
-	Mdn=4	Mdn=3.65	Mdn=3.9	Mdn=3.15
	Range=3.5-4.55	Range=2.2-3.75	Range=3.5-4.25	Range=2.95-3.7
Stability	-	-		-
+/- 25% Mdn 1*	3-5	2.65-4.65	2.9-4.9	2.15-4.15
80%=stable	4/4 stable	4/4 stable	4/4 stable	4/4 stable
Stability -trend	4.2-3.78	2.9-3.73	3.7-4.08	3.33-3.15
	decelerating	accelerating	accelerating	decelerating
Between conditions	B1->A1	$A1 \rightarrow B2$	$B2 \rightarrow A2$	A->B
Relative level change	-0.88	-0.03	-1.47	
	deteriorated	deteriorated	deteriorated	
Absolute level change	-0.55	-0.25	-0.95	
	deteriorated	deteriorated	deteriorated	
Median level change	-0.35	0.25 improved	-0.75	
	deteriorated	_	deteriorated	
Mean level change	-0.7 deteriorated	0.58 improved	-0.65	
-		_	deteriorated	
PND:	75%	75%	75%	75%
POD:	25%	25%	25%	25%

Note. * Calculated on median from phase A1. A1 & A2 = joint reading, B1 & B2 = MSMD. PND = percent non overlapping data, POD= percent overlapping data.

Table 8. Student 3 Initiation

Within conditions	B1	A1	B2	A2
M, Mdn, range	M=3.75	M=3.02	M=3.67	M=2.98
-	Mdn=3.67	Mdn=3.14	Mdn=3.64	Mdn=3.07
	Range=3.53-4.13	Range=2.2-3.6	Range=3.13- 4.27	Range=2.33-3.47
Stability				
+/- 25% Mdn 0.92*	2.75-4.59	2.22-4.06	2.72-4.56	2.15-3.99
80%=stable	stable	stable	stable	stable

Stability -trend	3.9-3.6 decelerating	2.7-3.34 accelerating	3.4-3.94 accelerating	2.9-3.07 accelerating
Between conditions	B1->A1	$A1 \rightarrow B2$	$B2 \rightarrow A2$	A->B
Relative level change	-0.9 deteriorated	0.06 improved	-1.04	
			deteriorated	
Absolute level change	-0.47	-0.47	-1.27	
	deteriorated	deteriorated	deteriorated	
Median level change	-0.53	0.50 improved	-0.57	
	deteriorated		deteriorated	
Mean level change	-0.73	0.65 improved	-0.68	
	deteriorated		deteriorated	
PND:	75%	50%	75%	63%
POD:	25%	50%	25%	38%

Note. * Calculated on median from phase A1. A1 & A2 = joint reading, B1 & B2 = MSMD. PND = percent non overlapping data, POD= percent overlapping data.

Table 9. Student 3 School staff member ratings

Within conditions	B1	A1	B2	A2
M, Mdn, range	M=14.25	M=10.5	M=9.5	M=8.25
	Mdn=14.5	Mdn=12	Mdn=10	Mdn=9
	Range=13-15	Range=3-15	Range=3-15	Range=3-12
Stability	11.5-17.5	9-15	7-13	6-12
+/- 25% Mdn 3*	4/4 stable	3/4 variable	2/4 variable	3/4 variable
80%=stable				
Stability -trend	14-14.5	7-14	6.5-12.5	5.5-11 accelerating
	decelerating	accelerating	accelerating	
Between conditions	B1-A1	$A1 \rightarrow B2$	$B2 \rightarrow A2$	A->B
Relative level change	-7.5 deteriorated	-7.5 deteriorated	-7 deteriorated	
Absolute level change	-4 deteriorated	-5 deteriorated	-12 deteriorated	
Median level change	-2.5 deteriorated	-2 deteriorated	-1 deteriorated	
Mean level change	-3.75	-1 deteriorated	-1 deteriorated	
	deteriorated			
PND:	0%	0%	25%	0%
POD:	100%	100%	75%	100%

Note. * Calculated on median from phase A1. A1 & A2 = joint reading, B1 & B2 = MSMD. PND = percent non overlapping data, POD= percent overlapping data.