

Table 1: Factor Loadings for Confirmatory Factor Analysis of MLQ, Two Factors MLQ-P and MLQ-S

Variable	MR2	MR1	h2	u2	com
MLQ_1	0.01	<b>0.81</b>	0.66	0.34	1.00
MLQ_4	0.05	<b>0.78</b>	0.62	0.38	1.01
MLQ_5	0.05	<b>0.77</b>	0.61	0.39	1.01
MLQ_6	0.02	<b>0.79</b>	0.62	0.38	1.00
MLQ_9	-0.24	<b>0.45</b>	0.23	0.77	1.53
MLQ_2	<b>0.81</b>	-0.08	0.64	0.36	1.02
MLQ_3	<b>0.74</b>	0.08	0.57	0.43	1.02
MLQ_7	<b>0.72</b>	0.07	0.54	0.46	1.02
MLQ_8	<b>0.72</b>	0.09	0.55	0.45	1.03
MLQ_10	<b>0.83</b>	-0.12	0.68	0.32	1.04
SS loadings	3	2.72			
MR2	1.00	0.14			
MR1	0.14	1.00			

Table 2: Two Factor Loadings for Exploratory Factor Analysis with Oblimin Rotation of MLQ

Variable	ML1	ML2	h2	u2	com
MLQ_1	-0.01	<b>0.81</b>	0.66	0.34	1.00
MLQ_2	<b>0.81</b>	-0.06	0.64	0.36	1.01
MLQ_3	<b>0.74</b>	0.09	0.57	0.43	1.03
MLQ_4	0.03	<b>0.78</b>	0.62	0.38	1.00
MLQ_5	0.03	<b>0.78</b>	0.61	0.39	1.00
MLQ_6	0.00	<b>0.79</b>	0.62	0.38	1.00
MLQ_7	<b>0.72</b>	0.09	0.54	0.46	1.03
MLQ_8	<b>0.72</b>	0.11	0.55	0.45	1.04
MLQ_9	-0.25	<b>0.44</b>	0.23	0.77	1.58
MLQ_10	<b>0.83</b>	-0.11	0.68	0.32	1.03
SS loadings	2.98	2.74			
ML1	1.00	0.15			
ML2	0.15	1.00			

Table 3: Factor Loadings for Confirmatory Factor Analysis of MLQ, Two Factors Meaning and Purpose

Variable	MR2	MR1	h2	u2	com
MLQ1_MP	<b>0.78</b>	-0.24	0.65	0.35	1.19
MLQ2_MS	0.25	<b>0.74</b>	0.62	0.38	1.23
MLQ5_MP	<b>0.76</b>	-0.19	0.61	0.39	1.12
MLQ10_MS	0.22	<b>0.80</b>	0.70	0.30	1.16
MLQ3_PS	<b>0.38</b>	<b>0.65</b>	0.58	0.42	1.61
MLQ4_PP	<b>0.77</b>	-0.19	0.62	0.38	1.12
MLQ6_PP	<b>0.77</b>	-0.22	0.62	0.38	1.16
MLQ8_PS	<b>0.38</b>	<b>0.61</b>	0.54	0.46	1.67
MLQ9_PP	<b>0.33</b>	<b>-0.35</b>	0.23	0.77	1.99
SS loadings	2.89	2.28			
MR2	1.00	0.03			
MR1	0.03	1.00			

	Factor	op	Variable	Loadings
1	Purpose	=~	MLQ_1	0.69
2	Purpose	=~	MLQ_2	0.08
3	Purpose	=~	MLQ_5	0.95
4	Purpose	=~	MLQ_10	0.06
5	Meaning	=~	MLQ_3	0.25
6	Meaning	=~	MLQ_4	0.88
7	Meaning	=~	MLQ_6	0.75
8	Meaning	=~	MLQ_8	0.24
9	Meaning	=~	MLQ_9	0.33

Table 4: Factor Loadings for Confirmatory Factor Analysis with Lavaan of MLQ, Two Factors: Meaning and Purpose

	Factor	op	Variable	Loadings
1	Purpose	=~	MLQ_1	0.81
2	Purpose	=~	MLQ_5	0.78
3	Purpose	=~	MLQ_4	0.79
4	Purpose	=~	MLQ_6	0.79
5	Purpose	=~	MLQ_9	0.40
6	MLQ_1	~~	MLQ_1	0.34
7	MLQ_5	~~	MLQ_5	0.39
8	MLQ_4	~~	MLQ_4	0.38
16	MLQ_9	~1		2.44
17	Purpose	~1		0.00

Table 5: Factor Loadings for Confirmatory Factor Analysis with Lavaan of MLQ-P, One Purpose Factor

	Factor	op	Variable	Loadings
1	Purpose	=~	MLQ_1	0.83
2	Purpose	=~	MLQ_5	0.79
3	Meaning	=~	MLQ_4	0.80
4	Meaning	=~	MLQ_6	0.80
5	Meaning	=~	MLQ_9	0.39
6	MLQ_1	~~	MLQ_1	0.32
7	MLQ_5	~~	MLQ_5	0.37
8	MLQ_4	~~	MLQ_4	0.36
16	MLQ_4	~1		3.08
17	MLQ_6	~1		2.83

Table 6: Factor Loadings for Confirmatory Factor Analysis with Lavaan of MLQ-P, Two Factors of meaning and purpose factors

	Factor	op	Variable	Loadings
1	Purpose	=~	MLQ_1	0.83
2	Purpose	=~	MLQ_5	0.79
3	Meaning	=~	MLQ_4	0.80
4	Meaning	=~	MLQ_6	0.80
5	Meaning	=~	MLQ_9	0.39
6	Global	=~	Meaning	0.98
7	Global	=~	Purpose	0.97
8	MLQ_1	~~	MLQ_1	0.32
16	MLQ_1	~1		2.71
17	MLQ_5	~1		3.52

Table 7: Factor Loadings for Confirmatory Factor Analysis with Lavaan of MLQ-P Second Prder Purpose and Meanign Factors

	Fit_Measure	MLQpurpose_fit	meaningpurpose_fit	purpose_fit_secon_order
1	Chisq	33.94	25.68	25.68
2	DF	5.00	4.00	3.00
3	P-value	0.00	0.00	0.00
4	CFI	0.99	0.99	0.99
5	TLI	0.97	0.97	0.96
6	RMSEA	0.08	0.07	0.09
7	RMSEA ci lower	0.05	0.05	0.06
8	RMSEA ci upper	0.10	0.10	0.12
9	SRMR	0.02	0.02	0.02

	Factor	op	Variable	Loadings
1	MLQP	==	MLQ_1	0.79
2	MLQP	==	MLQ_4	0.80
3	MLQP	==	MLQ_5	0.77
4	MLQP	==	MLQ_6	0.81
5	MLQP	==	MLQ_9	0.38
6	MLQS	==	MLQ_2	0.80
7	MLQS	==	MLQ_3	0.75
8	MLQS	==	MLQ_7	0.74
9	MLQS	==	MLQ_8	0.74
10	MLQS	==	MLQ_10	0.80
11	FeelingPurposeNow	==	APSL1	0.87
12	FeelingPurposeNow	==	APSL2	0.80
13	FeelingPurposeNow	==	APSL5	0.69
14	Futuregoals	==	APSL4	0.84
15	Futuregoals	==	APSL7	0.79
16	Futuregoals	==	APSL8	0.82
17	Purpose	==	FeelingPurposeNow	0.99
18	Purpose	==	Futuregoals	0.92
19	English	==	ASDQIL1	0.88
20	English	==	ASDQIL2	0.86
21	English	==	ASDQIL3	0.87
22	English	==	ASDQIL4	0.83
23	English	==	ASDQIL5	0.85
24	Math	==	ASDQIL6	0.90
25	Math	==	ASDQIL7	0.91
26	Math	==	ASDQIL8	0.92
27	Math	==	ASDQIL9	0.90
28	Math	==	ASDQIL10	0.91
29	Science	==	ASDQIL11	0.91
30	Science	==	ASDQIL12	0.90
31	Science	==	ASDQIL13	0.90
32	Science	==	ASDQIL14	0.90
33	Science	==	ASDQIL15	0.89
34	Subjects	==	ASDQIL16	0.83
35	Subjects	==	ASDQIL17	0.86
36	Subjects	==	ASDQIL18	0.85
37	Subjects	==	ASDQIL19	0.83
38	Subjects	==	ASDQIL20	0.84
75	MLQP	--	MLQP	1.00
76	MLQS	--	MLQS	1.00
77	FeelingPurposeNow	--	FeelingPurposeNow	0.02
78	Futuregoals	--	Futuregoals	0.16
79	Purpose	--	Purpose	1.00
80	English	--	English	1.00
81	Math	--	Math	1.00
82	Science	--	Science	1.00
83	Subjects	--	Subjects	1.00
84	MLQP	--	MLQS	0.16
85	MLQP	--	Purpose	0.69
86	MLQP	--	English	0.29
87	MLQP	--	Math	0.17
88	MLQP	--	Science	0.16
89	MLQP	--	Subjects	0.26
90	MLQS	--	Purpose	0.15
91	MLQS	--	English	0.11
92	MLQS	--	Math	0.00
93	MLQS	--	Science	0.08
94	MLQS	--	Subjects	0.05
95	Purpose	--	English	0.17
96	Purpose	--	Math	0.15
97	Purpose	--	Science	0.12
98	Purpose	--	Subjects	0.16
99	English	--	Math	0.24
100	English	--	Science	0.40
101	English	--	Subjects	0.68
102	Math	--	Science	0.52
103	Math	--	Subjects	0.69
104	Science	--	Subjects	0.70

Table 8: Factor Loadings for Convergent Analysis of APSI with MLQ-Present and MLQ Searching using Lavaan

	Factor	op	Variable	Loadings
1	Purpose	=~	MLQ_1_1	0.94
2	Purpose	=~	MLQ_5_1	0.93
3	Purpose	=~	MLQ_4_1	0.96
4	Purpose	=~	MLQ_6_1	0.95
5	Purpose	=~	MLQ_11_1	0.89

Table 9: Factor Loadings for Confirmatory Factor Analysis with Lavaan of MLQ-P, One Purpose Factor

	Factor	op	Variable	Loadings
1	Purpose	=~	MLQ_1_1	0.94
2	Purpose	=~	MLQ_5_1	0.94
3	Meaning	=~	MLQ_4_1	0.96
4	Meaning	=~	MLQ_6_1	0.95
5	Meaning	=~	MLQ_11_1	0.89
11	Purpose	~~	Purpose	1.00
12	Meaning	~~	Meaning	1.00
13	Purpose	~~	Meaning	1.00

Table 10: Factor Loadings for Confirmatory Factor Analysis with Lavaan of MLQ-P, One Purpose Factor

	Fit_Measure	One Factor Fit	Meaning/Purpose Fit
1	Chisq	16.30	15.56
2	DF	5.00	4.00
3	P-Value	0.01	0.00
4	CFI	1.00	1.00
5	TLI	1.00	0.99
6	RMSEA	0.05	0.06
7	RMSEA ci upper	0.03	0.03
8	RMSEA ci lower	0.09	0.10
9	SRMR	0.00	0.00

	Fit_Measure	One Factor Model	Meaning Purpose Model
1	Chisq	7.95	56.67
2	DF	2.00	2.00
3	P-Value	0.02	0.00
4	CFI	1.00	0.97
5	TLI	0.99	0.90
6	RMSEA	0.06	0.17
7	RMSEA ci upper	0.02	0.13
8	RMSEA ci lower	0.10	0.21
9	SRMR	0.01	0.13