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	**0.81**	0.66	0.34	1.00
MLQ_4	0.05	**0.78**	0.62	0.38	1.01
MLQ_5	0.05	**0.77**	0.61	0.39	1.01
MLQ_6	0.02	**0.79**	0.62	0.38	1.00
MLQ_9	-0.24	**0.45**	0.23	0.77	1.53
MLQ_2	**0.81**	-0.08	0.64	0.36	1.02
MLQ_3	**0.74**	0.08	0.57	0.43	1.02
MLQ_7	**0.72**	0.07	0.54	0.46	1.02
MLQ_8	**0.72**	0.09	0.55	0.45	1.03
MLQ_10	**0.83**	-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	**0.81**	0.66	0.34	1.00
MLQ_2	**0.81**	-0.06	0.64	0.36	1.01
MLQ_3	**0.74**	0.09	0.57	0.43	1.03
MLQ_4	0.03	**0.78**	0.62	0.38	1.00
MLQ_5	0.03	**0.78**	0.61	0.39	1.00
MLQ_6	0.00	**0.79**	0.62	0.38	1.00
MLQ_7	**0.72**	0.09	0.54	0.46	1.03
MLQ_8	**0.72**	0.11	0.55	0.45	1.04
MLQ_9	-0.25	**0.44**	0.23	0.77	1.58
MLQ_10	**0.83**	-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	**0.78**	-0.24	0.65	0.35	1.19
MLQ2_MS	0.25	**0.74**	0.62	0.38	1.23
MLQ5_MP	**0.76**	-0.19	0.61	0.39	1.12
MLQ10_MS	0.22	**0.80**	0.70	0.30	1.16
MLQ3_PS	**0.38**	**0.65**	0.58	0.42	1.61
MLQ4_PP	**0.77**	-0.19	0.62	0.38	1.12
MLQ6_PP	**0.77**	-0.22	0.62	0.38	1.16
MLQ8_PS	**0.38**	**0.61**	0.54	0.46	1.67
MLQ9_PP	**0.33**	**-0.35**	0.23	0.77	1.99
SS loadings	2.89	2.28			
MR2	1.00	0.03			
MR1	0.03	1.00			

	Factor	op	Veriable	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	Veriable	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	Veriable	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	Veriable	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	Veriable	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	=~	APSI_1	0.87
12	FeelingPurposeNow	=~	APSI_2	0.80
13	FeelingPurposeNow	=~	APSI_5	0.69
14	Futuregoals	=~	APSI_4	0.84
15	Futuregoals	=~	APSI_7	0.79
16	Futuregoals	=~	APSI_8	0.82
17	Purpose	=~	FeelingPurposeNow	0.99
18	Purpose	=~	Futuregoals	0.92
19	English	=~	ASDQII_1	0.88
20	English	=~	ASDQII_2	0.86
21	English	=~	ASDQII_3	0.87
22	English	=~	ASDQII_4	0.83
23	English	=~	ASDQII_5	0.85
24	Math	=~	ASDQII_6	0.90
25	Math	=~	ASDQII_7	0.91
26	Math	=~	ASDQII_8	0.92
27	Math	=~	ASDQII_9	0.90
28	Math	=~	ASDQII_10	0.91
29	Science	=~	ASDQII_11	0.91
30	Science	=~	ASDQII_12	0.90
31	Science	=~	ASDQII_13	0.90
32	Science	=~	ASDQII_14	0.90
33	Science	=~	ASDQII_15	0.89
34	Subjects	=~	ASDQII_16	0.83
35	Subjects	=~	ASDQII_17	0.86
36	Subjects	=~	ASDQII_18	0.85
37	Subjects	=~	ASDQII_19	0.83
38	Subjects	=~	ASDQII_20	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 Convergant Analysis of APSI with MLQ-Present and MLQ Searching using Lavaan

	Factor	op	Veriable	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	Veriable	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