

CONNECTING SOCIAL-EMOTIONAL DEVELOPMENT, ACADEMIC ACHIEVEMENT, AND ON-TRACK OUTCOMES:

**A MULTI-DISTRICT STUDY OF GRADES 3 TO 10 STUDENTS
SUPPORTED BY CITY YEAR AMERICORPS MEMBERS**



APPENDIX TABLES

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APPENDIX A

SAMPLE DESCRIPTIVES

TABLE A.1 – SAMPLE DESCRIPTIVES FOR END-OF-YEAR DESSA SCORES

DESSA DOMAIN	N (STUDENTS)	MEAN	STD. DEV.	MIN	MAX	% NEED FOR INSTRUCTION	% TYPICAL	% STRENGTH
SELF-AWARENESS	24,433	2.0	0.51	1	3	14%	74%	12%
DECISION MAKING	24,430	2.1	0.56	1	3	13%	68%	19%
GOAL-DIRECTED BEHAVIOR	24,430	2.1	0.57	1	3	12%	67%	22%
SELF-MANAGEMENT	24,433	2.1	0.58	1	3	10%	64%	25%
OPTIMISTIC	24,430	2.0	0.55	1	3	14%	69%	16%
RELATIONSHIP SKILLS	24,430	2.1	0.58	1	3	14%	66%	20%
PERSONAL RESPONSIBILITY	24,430	2.1	0.56	1	3	11%	67%	22%
SOCIAL AWARENESS	24,433	2.1	0.57	1	3	12%	67%	21%
COMPOSITE SCORE	24,433	2.1	0.55	1	3	11%	69%	20%

TABLE A.2 – SAMPLE DESCRIPTIVES FOR MID-YEAR HSA SCORES

DESSA DOMAIN	N (STUDENTS)	MEAN	STD. DEV.	MIN	MAX	% CHALLENGE	% TYPICAL	% STRENGTH
ACTION ORIENTATION	753	2.1	0.59	1	3	11%	64%	25%
EMOTIONAL CONTROL	746	2.2	0.59	1	3	10%	62%	28%
ASSERTIVENESS	753	2.1	0.61	1	3	15%	62%	23%
TRUST	753	2.2	0.57	1	3	8%	62%	30%
EMPATHY	753	2.3	0.61	1	3	9%	57%	34%
REFLECTION	660	2.1	0.61	1	3	13%	62%	25%
OPTIMISM	750	2.1	0.62	1	3	14%	60%	26%
RELATIONSHIP WITH PEERS	753	2.1	0.60	1	3	12%	62%	26%
RELATIONSHIP WITH ADULTS	750	2.1	0.61	1	3	15%	62%	23%
LEARNING INTEREST	746	2.1	0.63	1	3	16%	59%	24%
CRITICAL THINKING	656	2.2	0.60	1	3	11%	62%	27%
PERSEVERANCE	656	2.2	0.62	1	3	12%	58%	30%
ACADEMIC MOTIVATION	753	2.1	0.63	1	3	14%	59%	27%
SCHOOL BONDING	750	2.2	0.61	1	3	10%	59%	32%
COMPOSITE PYRAMID	753	2.1	0.74	1	3	24%	44%	32%

TABLE A.3 – SAMPLE DESCRIPTIVES FOR STUDENT OUTCOMES

DESSA DOMAIN	N (STUDENTS)	MEAN	STD. DEV.	MIN	MAX	% OFF-TRACK	% SLIDING	% ON-TRACK
PRIOR ATTENDANCE RATE	7,295	88.0	10.0	0	100	13%	33%	54%
END-OF-YEAR ATTENDANCE RATE	7,007	85.8	13.1	0	100	21%	28%	50%
PRIOR ELA GRADE	11,878	2.1	1.2	0	4	12%	14%	73%
END-OF-YEAR ELA GRADE	11,397	2.2	1.2	0	4	13%	13%	74%
PRIOR MATH GRADE	10,260	2.0	1.1	0	4	14%	18%	68%
END-OF-YEAR MATH GRADE	9,877	2.1	1.2	0	4	14%	15%	71%
PRIOR ELA ACHIEVEMENT SCORE	-	-	-	-	-	69%	19%	11%
END-OF-YEAR ELA ACHIEVEMENT SCORE	-	-	-	-	-	62%	21%	17%
PRIOR MATH ACHIEVEMENT SCORE	-	-	-	-	-	76%	18%	6%
END-OF-YEAR MATH ACHIEVEMENT SCORE	-	-	-	-	-	70%	18%	12%



APPENDIX B

ADDITIONAL STATISTICAL RESULTS

**TABLE B.1 – CORRELATIONS BETWEEN DESSA TIER SCORES (RANGES 1-3)
AND HSA PYRAMID SCORES (RANGES 1-3) ALL GRADES**

		DESSA PRE	DESSA POST	HSA SOY	HSA MOY	HSA EOY
DESSA PRE	CORRELATION	1	.425**	.132**	.111**	.118
	P-VALUE		.000	.001	.002	.117
	N	30043	24433	602	753	178
DESSA POST	CORRELATION	.425**	1	.167**	.175**	.177*
	P-VALUE	.000		.000	.000	.020
	N	24433	24433	562	730	171
HSA SOY	CORRELATION	.132**	.167**	1	.559**	.456**
	P-VALUE	.001	.000		.000	.000
	N	602	562	603	484	113
HSA MOY	CORRELATION	.111**	.175**	.559**	1	.580**
	P-VALUE	.002	.000	.000		.000
	N	753	730	484	753	131
HSA EOY	CORRELATION	.118	.177*	.456**	.580**	1
	P-VALUE	.117	.020	.000	.000	
	N	178	171	113	131	178

****.** Correlation is significant at the 0.01 level (2-tailed).

*****. Correlation is significant at the 0.05 level (2-tailed).

**TABLE B.2 – CORRELATIONS BETWEEN DESSA TIER SCORES (RANGES 1-3)
AND HSA PYRAMID SCORES (RANGES 1-3) GRADES 3-5**

		DESSA PRE	DESSA POST	HSA SOY	HSA MOY	HSA EOY
DESSA PRE	CORRELATION	1	.451**	.132	.144*	.184
	P-VALUE		.000	.055	.016	.060
	N	10435	8833	210	277	106
DESSA POST	CORRELATION	.451**	1	.153*	.125*	.290**
	P-VALUE	.000		.031	.040	.003
	N	8833	8833	199	269	102
HSA SOY	CORRELATION	.132	.153*	1	.529**	.446**
	P-VALUE	.055	.031		.000	.001
	N	210	199	210	191	56
HSA MOY	CORRELATION	.144*	.125*	.529**	1	.552**
	P-VALUE	.016	.040	.000		.000
	N	277	269	191	277	91
HSA EOY	CORRELATION	.184	.290**	.446**	.552**	1
	P-VALUE	.060	.003	.001	.000	
	N	106	102	56	91	106

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

**TABLE B.3 – CORRELATIONS BETWEEN DESSA TIER SCORES (RANGES 1-3)
AND HSA PYRAMID SCORES (RANGES 1-3) GRADES 6-8**

		DESSA PRE	DESSA POST	HSA SOY	HSA MOY	HSA EOY
DESSA PRE	CORRELATION	1	.431**	.138*	.175**	.048
	P-VALUE		.000	.032	.002	.739
	N	12193	10006	244	308	51
DESSA POST	CORRELATION	.431**	1	.195**	.181**	.052
	P-VALUE	.000		.003	.002	.717
	N	10006	10006	228	299	51
HSA SOY	CORRELATION	.138*	.195**	1	.555**	.558**
	P-VALUE	.032	.003		.000	.000
	N	244	228	244	188	38
HSA MOY	CORRELATION	.175**	.181**	.555**	1	.636**
	P-VALUE	.002	.002	.000		.000
	N	308	299	188	308	30
HSA EOY	CORRELATION	.048	.052	.558**	.636**	1
	P-VALUE	.739	.717	.000	.000	
	N	51	51	38	30	51

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

**TABLE B.4 – CORRELATIONS BETWEEN DESSA TIER SCORES (RANGES 1-3)
AND HSA PYRAMID SCORES (RANGES 1-3) GRADE 9**

		DESSA PRE	DESSA POST	HSA SOY	HSA MOY	HSA EOY
DESSA PRE	CORRELATION	1	.375**	.163	.015	-.078
	P-VALUE		.000	.094	.878	.737
	N	5871	4385	107	113	21
DESSA POST	CORRELATION	.375**	1	.147	.277**	-.167
	P-VALUE	.000		.154	.003	.509
	N	4385	4385	96	110	18
HSA SOY	CORRELATION	.163	.147	1	.701**	.308
	P-VALUE	.094	.154		.000	.199
	N	107	96	108	74	19
HSA MOY	CORRELATION	.015	.277**	.701**	1	.791**
	P-VALUE	.878	.003	.000		.006
	N	113	110	74	113	10
HSA EOY	CORRELATION	-.078	-.167	.308	.791**	1
	P-VALUE	.737	.509	.199	.006	
	N	21	18	19	10	21

** Correlation is significant at the 0.01 level (2-tailed).

* Correlation is significant at the 0.05 level (2-tailed).

TABLE B.5 – PRE DESSA MEASURES AND STUDENT ACADEMIC OUTCOMES

	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEVEMENT		MATH ACHIEVEMENT	
SEL MEASURE	RATE	TRACK	GRADE	TRACK	GRADE	TRACK	RAW	TRACK	RAW	TRACK
SELF-AWARENESS	-1.1***	-0.07***	-0.19***	-0.11***	-0.17***	-0.09***	-8.0***	-0.05***	-11.2**	-0.08***
DECISION MAKING	-1.4***	-0.09***	-0.26***	-0.13***	-0.24***	-0.13***	-7.5***	-0.06***	-14.8**	-0.11***
GOAL-DIRECTED BEHAVIOR	-1.4***	-0.08***	-0.30***	-0.15***	-0.29***	-0.15***	-8.2**	-0.09***	-16.7**	-0.10***
SELF-MANAGEMENT	-1.5***	-0.09***	-0.32***	-0.14***	-0.28***	-0.13***	-8.8***	-0.07***	-14.8**	-0.12***
OPTIMISTIC	-1.1***	-0.07***	-0.19***	-0.10***	-0.20***	-0.10***	-6.9***	-0.06***	-7.2*	-0.10***
RELATIONSHIP SKILLS	-1.0***	-0.06***	-0.21***	-0.09***	-0.15***	-0.07***	-7.7***	-0.04***	-10.7**	-0.08***
PERSONAL RESPONSIBILITY	-1.9***	-0.11***	-0.36***	-0.17***	-0.33***	-0.17***	-8.9***	-0.08***	-15.9**	-0.11***
SOCIAL AWARENESS	-1.5***	-0.08***	-0.22***	-0.11***	-0.18***	-0.09***	-8.6***	-0.06***	-10.5**	-0.08***
COMPOSITE SCORE	-1.6***	-0.09***	-0.32***	-0.15***	-0.29***	-0.14***	-11.0***	-0.09***	-14.8**	-0.11***

TABLE B.6 – POST DESSA MEASURES AND STUDENT ACADEMIC OUTCOMES

SEL MEASURE	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEVEMENT		MATH ACHIEVEMENT	
	RATE	TRACK	GRADE	TRACK	GRADE	TRACK	RAW	TRACK	RAW	TRACK
SELF-AWARENESS	-2.5***	-0.15***	-0.30***	-0.18***	-0.34***	-0.17***	-11.0**	-0.10***	-15.7**	-0.10***
DECISION MAKING	-2.7***	-0.15***	-0.36***	-0.20***	-0.37***	-0.19***	-8.5***	-0.08***	-16.2**	-0.08***
GOAL-DIRECTED BEHAVIOR	-2.4***	-0.15***	-0.42***	-0.23***	-0.44***	-0.23***	-11.5***	-0.12***	-25.1***	-0.14***
SELF-MANAGEMENT	-2.5***	-0.14***	-0.39***	-0.21***	-0.39***	-0.20***	-9.8**	-0.09***	-23.2***	-0.13***
OPTIMISTIC	-2.1***	-0.13***	-0.29***	-0.16***	-0.31***	-0.16***	-8.9***	-0.08***	-15.1**	-0.08***
RELATIONSHIP SKILLS	-1.8***	-0.11***	-0.25***	-0.15***	-0.25***	-0.13***	-8.8***	-0.06***	-13.0*	-0.08***
PERSONAL RESPONSIBILITY	-2.8***	-0.17***	-0.48***	-0.26***	-0.51***	-0.25***	-9.4**	-0.07***	-26.4***	-0.14***
SOCIAL AWARENESS	-2.3***	-0.13***	-0.30***	-0.16***	-0.27***	-0.15***	-10.0**	-0.07***	-13.1***	-0.08***
COMPOSITE SCORE	-2.8***	-0.16***	-0.41***	-0.23***	-0.43***	-0.22***	-11.1**	-0.10***	-21.8***	-0.12***

TABLE B.7 – GROWTH DESSA MEASURES AND STUDENT ACADEMIC OUTCOMES

SEL MEASURE	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEVEMENT		MATH ACHIEVEMENT	
	RATE	TRACK	GRADE	TRACK	GRADE	TRACK	RAW	TRACK	RAW	TRACK
SELF-AWARENESS	-1.1**	-0.06***	-0.06**	-0.04***	-0.09**	-0.05**	-1.3	-0.03*	-1.0	0.00
DECISION MAKING	-1.1***	-0.06**	-0.07***	-0.05***	-0.08**	-0.04**	-0.7	-0.01	0.3	0.02
GOAL-DIRECTED BEHAVIOR	-0.7*	-0.06**	-0.07***	-0.05***	-0.08***	-0.05***	-1.9	-0.01	-4.1*	0.00
SELF-MANAGEMENT	-0.7*	-0.04*	-0.06***	-0.05***	-0.07***	-0.05***	0.1	-0.01	-4.8	-0.02
OPTIMISTIC	-0.8**	-0.05**	-0.05*	-0.04**	-0.06***	-0.03**	-0.6	-0.01	-4.2*	0.01
RELATIONSHIP SKILLS	-0.7*	-0.04*	-0.05	-0.05***	-0.07**	-0.05**	-1.5	-0.01	-0.1	0.01
PERSONAL RESPONSIBILITY	-0.6	-0.05***	-0.08***	-0.06***	-0.10***	-0.04**	-0.1	0.01	-5.9	-0.01
SOCIAL AWARENESS	-0.7	-0.04*	-0.06***	-0.04***	-0.07*	-0.05**	-0.8	-0.01	-1.4	0.01
COMPOSITE SCORE	-1.0**	-0.06**	-0.07***	-0.06***	-0.09***	-0.05***	0.7	0.00	-2.5	0.00

TABLE B.8 – PRE HSA MEASURES AND STUDENT ACADEMIC OUTCOMES

SEL MEASURE	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEVEMENT		MATH ACHIEVEMENT	
	RATE	TRACK	GRADE	TRACK	GRADE	TRACK	RAW	TRACK	RAW	TRACK
ACTION ORIENTATION	2.5	0.12	0.04	-0.09	-0.08	0.06	2.8	-0.05	11.5	0.02
EMOTIONAL CONTROL	0.4	0.00	-0.16	-0.11	-0.14	-0.11	-9.1	-0.05	-15.1	-0.08
ASSERTIVENESS	1.9	0.05	-0.06	-0.13	0.14	0.09	-1.5	-0.06	19.5*	0.04
TRUST	-1.5	-0.11	-0.29	-0.26**	-0.09	-0.05	-2.5	0.03	0.1	0.02
EMPATHY	-0.1	-0.08	-0.11	-0.09	0.01	-0.09	7.8	-0.10	1.3	-0.05
REFLECTION	1.0	-0.01	-0.07	-0.15	-0.06	-0.05	-3.4	-0.21**	14.2	-0.05
OPTIMISM	0.8	-0.01	0.13	-0.05	0.01	0.04	1.1	0.00	8.5	0.02
RELATIONSHIP WITH PEERS	-1.5	0.01	-0.23	-0.18	0.12	0.14*	-1.5	-0.06	5.7	-0.02
RELATIONSHIP WITH ADULTS	1.6	0.04	0.09	0.00	0.00	-0.03	3.6	-0.01	3.5	-0.05
LEARNING INTEREST	-3.2	-0.26	-0.04	-0.15	-0.17	-0.13	-7.7	-0.05	14.0	0.01
CRITICAL THINKING	0.2	0.01	0.12	-0.03	-0.07	-0.09	4.4	-0.02	4.7	0.00
PERSEVERANCE	-1.0	-0.20	-0.02	-0.11	-0.18	-0.13	-1.2	-0.03	5.0	0.00
ACADEMIC MOTIVATION	-0.8	-0.07	-0.21	-0.21*	-0.15	-0.10	-5.2	-0.22***	-4.7	-0.03
SCHOOL BONDING	-0.4	-0.05	-0.11	-0.16	-0.14	-0.10	-4.7	0.02	7.5	-0.02
PYRAMID	1.9	0.03	-0.02	-0.15*	-0.06	-0.06	-6.4	-0.06	11.6	-0.02

TABLE B.9 – POST HSA MEASURES AND STUDENT ACADEMIC OUTCOMES

SEL MEASURE	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEVEMENT		MATH ACHIEVEMENT	
	RATE	TRACK	GRADE	TRACK	GRADE	TRACK	RAW	TRACK	RAW	TRACK
ACTION ORIENTATION	0.1	-0.05	0.03	-0.02	-0.11	-0.04	-0.6	-0.03	-4.6	-0.02
EMOTIONAL CONTROL	0.4	0.07	0.11	-0.04	0.01	0.00	-6.7	0.02	-17.1*	0.01
ASSERTIVENESS	4.3*	0.08	-0.02	-0.03	0.00	-0.05	3.3	0.00	-2.6	-0.07
TRUST	-0.2	0.02	-0.14	-0.14	0.12	0.04	0.6	-0.02	7.9	-0.01
EMPATHY	-0.8	-0.09	-0.37**	-0.16	0.00	-0.07	5.4	-0.10	-12.1	-0.07
REFLECTION	1.2	-0.04	-0.08	-0.10	-0.04	-0.10	-6.2	-0.05	8.8	-0.06
OPTIMISM	1.5	0.04	0.08	0.00	0.10	0.03	4.5	0.05	5.1	0.07
RELATIONSHIP WITH PEERS	-0.6	-0.02	-0.03	-0.02	0.03	0.03	3.4	0.01	3.9	-0.05
RELATIONSHIP WITH ADULTS	-0.2	0.08	-0.03	-0.01	-0.29*	-0.17*	7.7	0.00	-3.4	-0.02
LEARNING INTEREST	-0.6	-0.02	-0.03	-0.08	-0.14	-0.13	-1.2	-0.05	2.3	-0.02
CRITICAL THINKING	-0.8	-0.12	-0.10	-0.16	-0.09	-0.09	-7.7	-0.02	15.7	-0.02
PERSEVERANCE	1.5	0.05	-0.12	-0.14	-0.04	-0.05	-6.9	-0.04	3.8	0.10*
ACADEMIC MOTIVATION	-0.2	-0.08	-0.13	-0.13	-0.27	-0.17*	4.7	-0.04	-2.2	-0.01
SCHOOL BONDING	-1.4	-0.05	-0.03	-0.05	-0.02	-0.09	-0.8	0.01	0.2	-0.06
PYRAMID	0.3	0.02	-0.09	-0.10	-0.06	-0.05	-1.7	-0.02	-0.9	-0.02

TABLE B.10 – GROWTH HSA MEASURES AND STUDENT ACADEMIC OUTCOMES

SEL MEASURE	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEVEMENT		MATH ACHIEVEMENT	
	RATE	TRACK	GRADE	TRACK	GRADE	TRACK	RAW	TRACK	RAW	TRACK
ACTION ORIENTATION	-4.0	-0.24	-0.01	0.06	-0.20	-0.18*	-11.7*	-0.07	-8.0	-0.04
EMOTIONAL CONTROL	3.4	0.21	0.49**	0.22*	0.05	0.03	5.9	0.12	-1.1	0.11*
ASSERTIVENESS	-0.9	-0.08	-0.02	0.08	-0.15	-0.13	-3.3	-0.03	-18.7*	-0.10*
TRUST	3.5	0.30*	0.12	0.11	0.04	0.02	-11.7*	-0.12	13.3	-0.05
EMPATHY	3.0	0.23	-0.18	-0.04	-0.01	0.02	-9.5	0.00	-8.3	-0.02
REFLECTION	-0.3	-0.02	-0.02	0.05	0.02	-0.05	-4.7	0.10	-10.2	-0.02
OPTIMISM	-0.8	-0.17	0.00	0.08	0.04	-0.05	-4.0	-0.05	-8.9	-0.01
RELATIONSHIP WITH PEERS	0.1	-0.13	0.14	0.05	-0.11	-0.13	-8.6	0.01	-6.8	-0.05
RELATIONSHIP WITH ADULTS	-1.4	-0.04	-0.08	0.04	-0.36	-0.16	-3.3	0.00	-12.1	-0.01
LEARNING INTEREST	1.6	0.10	0.03	0.10	0.01	-0.04	-1.2	-0.05	-6.3	-0.04
CRITICAL THINKING	-0.9	-0.16	-0.15	-0.10	-0.04	-0.03	-16.0**	-0.06	13.6	-0.03
PERSEVERANCE	4.2	0.37*	-0.14	-0.01	0.06	0.05	-6.3	-0.04	4.8	0.07
ACADEMIC MOTIVATION	-0.1	-0.06	-0.01	0.05	-0.12	-0.10	-0.3	0.11	-0.5	-0.01
SCHOOL BONDING	1.6	-0.04	0.06	0.10	0.10	0.01	-8.1	-0.09	-10.5	-0.04
PYRAMID	-0.9	-0.02	-0.10	0.05	-0.10	-0.05	-6.9	0.00	-15.6*	-0.03

TABLE B.11 – POST DESSA MEASURES AND STUDENT ACADEMIC OUTCOMES, GRADES 3-5 ONLY

SEL MEASURE	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEVEMENT		MATH ACHIEVEMENT	
	RATE	TRACK	GRADE	TRACK	GRADE	TRACK	RAW	TRACK	RAW	TRACK
SELF-AWARENESS	-1.6***	-0.08***	-0.23***	-0.15***	-0.35***	-0.15***	-8.9*	-0.11***	-21.0*	-0.15***
DECISION MAKING	-1.1***	-0.06**	-0.29***	-0.14***	-0.33***	-0.15***	-5.2	-0.09**	-15.8*	-0.09***
GOAL-DIRECTED BEHAVIOR	-1.1***	-0.07**	-0.38***	-0.20***	-0.42***	-0.18***	-10.5*	-0.15***	-22.8**	-0.19***
SELF-MANAGEMENT	-0.7*	-0.04	-0.27***	-0.14***	-0.35***	-0.14***	-7.2*	-0.10***	-24.5**	-0.19***
OPTIMISTIC	-1.0***	-0.07***	-0.27***	-0.13***	-0.31***	-0.14***	-7.7*	-0.10***	-18.9**	-0.13***
RELATIONSHIP SKILLS	-1.2***	-0.07**	-0.20***	-0.10***	-0.29***	-0.13***	-4.8	-0.05**	-16.9*	-0.11***
PERSONAL RESPONSIBILITY	-1.2***	-0.07***	-0.41***	-0.21***	-0.44***	-0.17***	-8.8*	-0.09***	-24.9**	-0.20***
SOCIAL AWARENESS	-0.7**	-0.04*	-0.23***	-0.13***	-0.25***	-0.13***	-6.0	-0.06*	-9.4*	-0.11***
COMPOSITE SCORE	-1.3***	-0.08***	-0.33***	-0.17***	-0.38***	-0.15***	-9.3*	-0.11***	-21.3*	-0.17***

TABLE B.12 – POST DESSA MEASURES AND STUDENT ACADEMIC OUTCOMES, GRADES 6-8 ONLY

SEL MEASURE	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEVEMENT		MATH ACHIEVEMENT	
	RATE	TRACK	GRADE	TRACK	GRADE	TRACK	RAW	TRACK	RAW	TRACK
SELF-AWARENESS	-2.3***	-0.15***	-0.25***	-0.13***	-0.33***	-0.16***	-19.1***	-0.14***	-9.2*	-0.05
DECISION MAKING	-2.5***	-0.14***	-0.32***	-0.16***	-0.31***	-0.15***	-16.0***	-0.10***	-13.8*	-0.08**
GOAL-DIRECTED BEHAVIOR	-2.1***	-0.15***	-0.37***	-0.17***	-0.40***	-0.20***	-14.3***	-0.12***	-23.7**	-0.12***
SELF-MANAGEMENT	-2.5***	-0.16***	-0.35***	-0.16***	-0.35***	-0.17***	-17.9***	-0.11***	-20.3***	-0.10***
OPTIMISTIC	-2.0***	-0.13***	-0.23***	-0.12***	-0.26***	-0.13***	-14.3***	-0.11***	-10.4*	-0.05*
RELATIONSHIP SKILLS	-1.8***	-0.12***	-0.20***	-0.11***	-0.20***	-0.10***	-13.8***	-0.09***	-12.8**	-0.06*
PERSONAL RESPONSIBILITY	-2.7***	-0.18***	-0.43***	-0.20***	-0.46***	-0.22***	-12.2**	-0.09***	-24.0**	-0.12***
SOCIAL AWARENESS	-2.5***	-0.14***	-0.28***	-0.13***	-0.24***	-0.13***	-13.2***	-0.09***	-15.3*	-0.06**
COMPOSITE SCORE	-2.6***	-0.16***	-0.37***	-0.18***	-0.38***	-0.20***	-17.0***	-0.12***	-17.3*	-0.08***

TABLE B.13 – POST DESSA MEASURES AND STUDENT ACADEMIC OUTCOMES, GRADE 9 ONLY

SEL MEASURE	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEVEMENT		MATH ACHIEVEMENT	
	RATE	TRACK	GRADE	TRACK	GRADE	TRACK	RAW	TRACK	RAW	TRACK
SELF-AWARENESS	-4.4***	-0.23***	-0.44***	-0.28***	-0.35***	-0.19***	-3.7	0.01	-24.4*	-0.12***
DECISION MAKING	-4.7***	-0.25***	-0.45***	-0.29***	-0.50***	-0.27***	-5.7	-0.02	-30.4***	-0.10***
GOAL-DIRECTED BEHAVIOR	-4.6***	-0.24***	-0.50***	-0.32***	-0.55***	-0.29***	-9.5*	-0.08**	-36.7**	-0.10***
SELF-MANAGEMENT	-4.5***	-0.23***	-0.53***	-0.31***	-0.49***	-0.28***	-2.2	-0.04	-30.45***	-0.11***
OPTIMISTIC	-3.7***	-0.20***	-0.37***	-0.25***	-0.43***	-0.25***	-5.3	0.01	-21.8	-0.10***
RELATIONSHIP SKILLS	-2.7***	-0.13***	-0.38***	-0.25***	-0.34***	-0.20***	-7.9	-0.01	-10.3	-0.07*
PERSONAL RESPONSIBILITY	-4.6***	-0.26***	-0.59***	-0.36***	-0.62***	-0.34***	-8.1	-0.02	-34.8*	-0.09***
SOCIAL AWARENESS	-3.8***	-0.20***	-0.38***	-0.23***	-0.30***	-0.16***	-11.9*	-0.05	-16.0	-0.06**
COMPOSITE SCORE	-4.8***	-0.23***	-0.52***	-0.33***	-0.60***	-0.32***	-7.0	-0.02	-38.6**	-0.11***

**TABLE B.14 – CORRELATING HSA FALL SCORES (RANGES 1-3) TO
HSA SPRING RETROSPECTIVE SCORES (RANGES 1-5)**

		START-OF-YEAR HSA													
		ACTION ORIENTATION	EMOTIONAL CONTROL	ASSERTIVENESS	TRUST	EMPATHY	REFLECTION	OPTIMISM	RELATIONSHIP WITH PEERS	RELATIONSHIP WITH ADULTS	LEARNING INTEREST	CRITICAL THINKING	PERSEVERANCE	ACADEMIC MOTIVATION	SCHOOL BONDING
RETROSPECTIVE	ACTION ORIENTATION	-.293	.113	-.170	-.142	-.134	-.167	-.135	-.226	-.139	-.270	-.238	-.243	-.179	-.071
	EMOTIONAL CONTROL	.071	-.379	.166	-.015	.034	-.049	.003	.165	-.015	-.027	-.008	-.073	-.024	-.090
	ASSERTIVENESS	-.172	.157	-.269	-.094	-.043	-.104	-.189	-.203	-.119	-.150	-.130	-.138	-.085	-.063
	TRUST	-.027	-.113	-.069	-.348	-.157	-.127	-.213	-.244	-.105	-.221	-.134	-.234	-.092	-.253
	EMPATHY	-.115	.021	-.101	-.224	-.346	-.142	-.138	-.134	-.116	-.264	-.295	-.196	-.126	-.195
	REFLECTION	-.165	-.065	-.127	-.191	-.221	-.255	-.242	-.122	-.150	-.303	-.342	-.318	-.231	-.165
	OPTIMISM	-.152	-.065	-.096	-.274	-.145	-.280	-.323	-.244	-.226	-.311	-.276	-.389	-.222	-.201
	RELATIONSHIP WITH PEERS	-.184	-.062	-.132	-.282	-.085	-.171	-.294	-.331	-.172	-.277	-.174	-.258	-.189	-.244
	RELATIONSHIP WITH ADULTS	-.107	-.020	-.136	-.282	-.166	-.248	-.307	-.202	-.309	-.303	-.262	-.307	-.220	-.252
	LEARNING INTEREST	-.171	.016	-.168	-.159	-.179	-.223	-.197	-.181	-.197	-.391	-.389	-.375	-.299	-.076
	CRITICAL THINKING	-.215	-.038	-.151	-.218	-.233	-.280	-.236	-.137	-.115	-.376	-.394	-.416	-.242	-.193
	PERSEVERANCE	-.214	-.056	-.160	-.221	-.226	-.179	-.277	-.200	-.177	-.281	-.322	-.405	-.291	-.208
	ACADEMIC MOTIVATION	-.083	-.080	-.059	-.125	-.146	-.181	-.193	-.137	-.168	-.285	-.300	-.343	-.324	-.152
	SCHOOL BONDING	-.064	-.102	-.078	-.287	-.115	-.147	-.218	-.177	-.106	-.159	-.174	-.214	-.092	-.285

**TABLE B.15 – CORRELATING HSA MID-YEAR SCORES (RANGES 1-3)
TO HSA SPRING RETROSPECTIVE SCORES (RANGES 1-5)**

		MID-YEAR HSA													
		ACTION ORIENTATION	EMOTIONAL CONTROL	ASSERTIVENESS	TRUST	EMPATHY	REFLECTION	OPTIMISM	RELATIONSHIP WITH PEERS	RELATIONSHIP WITH ADULTS	LEARNING INTEREST	CRITICAL THINKING	PERSEVERANCE	ACADEMIC MOTIVATION	SCHOOL BONDING
RETROSPECTIVE	ACTION ORIENTATION	-.383	.032	-.171	-.083	-.100	-.258	-.177	-.229	-.142	-.288	-.269	-.258	-.207	-.111
	EMOTIONAL CONTROL	.036	-.474	.177	-.075	-.082	-.088	-.107	.010	-.053	-.033	-.074	-.097	-.087	-.141
	ASSERTIVENESS	-.133	.143	-.308	.010	-.078	-.098	-.159	-.155	-.115	-.138	-.165	-.135	-.124	-.045
	TRUST	-.020	-.026	-.117	-.327	-.219	-.083	-.226	-.267	-.209	-.173	-.134	-.159	-.137	-.221
	EMPATHY	-.120	.045	-.102	-.214	-.440	-.198	-.143	-.169	-.163	-.204	-.151	-.192	-.208	-.241
	REFLECTION	-.237	-.070	-.174	-.125	-.209	-.363	-.279	-.137	-.215	-.334	-.387	-.335	-.320	-.195
	OPTIMISM	-.163	-.053	-.187	-.253	-.166	-.282	-.394	-.260	-.266	-.266	-.325	-.311	-.270	-.267
	RELATIONSHIP WITH PEERS	-.126	-.022	-.094	-.204	-.147	-.140	-.251	-.377	-.179	-.242	-.172	-.210	-.228	-.210
	RELATIONSHIP WITH ADULTS	-.135	.003	-.212	-.289	-.222	-.168	-.343	-.185	-.345	-.308	-.227	-.306	-.251	-.282
	LEARNING INTEREST	-.234	-.035	-.156	-.137	-.223	-.301	-.282	-.202	-.287	-.379	-.378	-.305	-.304	-.170
	CRITICAL THINKING	-.214	-.119	-.199	-.113	-.208	-.361	-.296	-.193	-.230	-.414	-.442	-.390	-.339	-.218
	PERSEVERANCE	-.202	-.084	-.142	-.099	-.145	-.239	-.272	-.116	-.197	-.343	-.354	-.355	-.286	-.158
	ACADEMIC MOTIVATION	-.188	-.084	-.139	-.072	-.182	-.244	-.271	-.119	-.221	-.320	-.300	-.336	-.368	-.176
	SCHOOL BONDING	-.080	-.063	-.071	-.285	-.219	-.084	-.266	-.245	-.233	-.130	-.160	-.210	-.198	-.344

TABLE B.16 – SPRING RETROSPECTIVE HSA MEASURES AND STUDENT OUTCOMES (COLUMBUS ONLY)

SEL MEASURE	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEVEMENT		MATH ACHIEVEMENT	
	RATE	TRACK	GRADE	TRACK	GRADE	TRACK	RAW	TRACK	RAW	TRACK
ACTION ORIENTATION	2.7	0.06	0.15	0.04	0.13	0.04	-0.3	-0.01	-0.2	-0.03
EMOTIONAL CONTROL	-0.1	-0.04	0.14	0.07	0.10	0.07	0.9	0.03	0.8	-0.01
ASSERTIVENESS	3.8*	0.14	-0.14	-0.06	0.08	-0.04	-0.4	-0.16*	0.9	0.04
TRUST	4.0*	0.18*	0.15	0.04	-0.23*	-0.15*	-0.7	-0.09	0.0	0.01
EMPATHY	3.0	0.10	0.30*	0.13	0.07	0.08	0.1	-0.01	0.2	0.02
REFLECTION	2.8	0.07	0.05	0.03	0.03	0.06	0.6	-0.01	-0.9	-0.04
OPTIMISM	3.3*	0.12	0.04	0.01	0.04	-0.04	0.5	-0.02	0.4	0.00
RELATIONSHIP WITH PEERS	3.4*	0.08	0.11	0.03	-0.04	-0.08	-0.3	-0.06	0.4	0.02
RELATIONSHIP WITH ADULTS	1.0	-0.08	-0.05	-0.10	-0.05	-0.04	-0.1	-0.04	0.3	-0.04
LEARNING INTEREST	2.1	-0.01	0.09	0.04	0.04	0.02	0.5	-0.03	0.3	0.01
CRITICAL THINKING	2.7	0.11	0.14	0.08	0.20	0.08	0.6	-0.05	0.1	0.00
PERSEVERANCE	3.1*	0.10	0.30*	0.15*	0.12	0.03	0.1	0.00	-0.1	-0.01
ACADEMIC MOTIVATION	4.0**	0.09	0.08	0.04	0.29**	0.10	-0.4	0.00	0.7	0.01
SCHOOL BONDING	1.4	0.04	0.11	0.06	-0.10	-0.07	0.0	-0.06	0.6	0.02

TABLE B.17 – PRE HSA MEASURES AND STUDENT OUTCOMES (COLUMBUS ONLY)

SEL MEASURE	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEVEMENT		MATH ACHIEVEMENT	
	RATE	TRACK	GRADE	TRACK	GRADE	TRACK	RAW	TRACK	RAW	TRACK
ACTION ORIENTATION	3.9	0.28	0.05	-0.10	0.00	0.10	-1.3	-0.05	0.8	0.03
EMOTIONAL CONTROL	-0.7	-0.05	-0.18	-0.13	-0.12	-0.09	0.2	-0.08	-0.7	-0.05
ASSERTIVENESS	3.4	0.00	0.02	-0.10	0.09	0.06	-0.5	-0.03	0.9	-0.01
TRUST	-1.3	-0.13	-0.34	-0.30**	-0.03	-0.03	0.5	0.11	1.2	0.02
EMPATHY	-0.6	-0.11	-0.06	-0.05	0.00	-0.10	-1.9*	-0.12	0.7	-0.08
REFLECTION	1.1	-0.08	-0.09	-0.14	-0.15	-0.08	-2.4*	-0.18*	-0.4	-0.07
OPTIMISM	0.8	-0.06	0.16	-0.02	-0.12	0.00	-1.3	0.01	1.3	0.01
RELATIONSHIP WITH PEERS	-1.6	-0.03	-0.21	-0.18	0.01	0.10	-0.8	-0.02	0.0	-0.07
RELATIONSHIP WITH ADULTS	1.5	0.02	0.15	0.04	0.02	-0.02	-1.3	0.01	0.4	-0.05
LEARNING INTEREST	-5.5	-0.46*	-0.02	-0.13	-0.21	-0.12	-0.8	0.01	0.8	0.00
CRITICAL THINKING	0.8	0.02	0.18	0.01	-0.11	-0.11	-0.8	0.00	0.7	0.00
PERSEVERANCE	-1.5	-0.32	0.01	-0.09	-0.20	-0.13	-0.6	0.01	0.7	-0.01
ACADEMIC MOTIVATION	-1.3	-0.10	-0.14	-0.18	-0.18	-0.09	-1.7	-0.23**	0.8	0.00
SCHOOL BONDING	-0.5	-0.04	-0.02	-0.09	-0.18	-0.14	0.1	0.07	0.1	-0.03

**TABLE B.18 – POST HSA MEASURES AND STUDENT OUTCOMES
(COLUMBUS ONLY)**

SEL MEASURE	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEVEMENT		MATH ACHIEVEMENT	
	RATE	TRACK	GRADE	TRACK	GRADE	TRACK	RAW	TRACK	RAW	TRACK
ACTION ORIENTATION	0.4	-0.04	0.01	-0.05	-0.10	-0.05	-1.2	-0.02	0.5	0.01
EMOTIONAL CONTROL	-0.1	0.05	0.10	-0.05	0.05	0.01	-0.5	0.03	0.0	0.06
ASSERTIVENESS	4.8*	0.08	-0.05	-0.05	0.00	-0.04	-0.9	-0.03	-0.5	-0.06
TRUST	-0.4	0.02	-0.13	-0.11	0.08	-0.01	-0.9	-0.01	1.4	-0.02
EMPATHY	-0.7	-0.08	-0.35*	-0.17	-0.02	-0.08	-1.6	-0.11	-0.7	-0.07
REFLECTION	1.3	-0.04	-0.09	-0.11	-0.09	-0.13	-2.9**	-0.06	0.4	-0.08
OPTIMISM	1.9	0.04	0.07	-0.01	0.03	-0.00	-2.0*	0.02	1.3	0.10
RELATIONSHIP WITH PEERS	-0.8	-0.02	0.04	0.01	-0.02	-0.02	-1.8*	0.02	0.6	-0.06
RELATIONSHIP WITH ADULTS	-0.1	0.08	-0.03	-0.01	-0.31*	-0.19*	-1.8*	-0.01	-0.3	-0.01
LEARNING INTEREST	-0.5	-0.02	0.01	-0.08	-0.05	-0.08	-1.4	-0.07	-0.6	0.00
CRITICAL THINKING	-0.7	-0.12	-0.09	-0.20*	-0.09	-0.10	-1.7	-0.02	-0.1	-0.03
PERSEVERANCE	1.8	0.06	-0.14	-0.17	-0.05	-0.06	-1.4	-0.03	1.3	0.15**
ACADEMIC MOTIVATION	-0.1	-0.08	-0.13	-0.15	-0.28	-0.18*	-2.0*	-0.10	-1.1	0.00
SCHOOL BONDING	-1.2	-0.05	0.04	-0.01	-0.03	-0.12	-1.1	0.01	-0.9	-0.06

**TABLE B.19 – FALL HSA AND STUDENT ACADEMIC OUTCOMES,
COMPASS ACADEMY**

	ATTENDANCE RATE	ELA			MATH		
		SCALE SCORE	PERFOR- MANCE LEVEL	GROWTH PERCENTILE	SCALE SCORE	PERFORMANCE LEVEL	GROWTH PERCENTILE
ACTION ORIENTATION	-0.7	1.6	0.1	0.5	-0.4	0.0	1.0
EMOTIONAL CONTROL	-0.5	-3.0	-0.1	-2.0	-3.0*	-0.2***	-3.6
ASSERTIVENESS	-0.2	0.5	-0.1	0.5	-2.1	-0.1	-1.7
TRUST	-1.1	1.1	0.1	1.7	-1.4	-0.1	-2.8
EMPATHY	-0.7	-0.4	-0.1	-1.3	-1.1	-0.1	-1.8
REFLECTION	0.3	-0.3	0.0	-1.2	0.3	0.0	-0.5
OPTIMISM	-0.4	0.1	0.0	0.4	0.6	0.0	0.5
RELATIONSHIP WITH PEERS	0.0	0.1	0.0	1.0	-2.6	-0.2**	-3.7
RELATIONSHIP WITH ADULTS	0.5	-0.5	0.0	-0.5	-1.0	-0.1	-1.4
LEARNING INTEREST	-0.5	0.2	0.0	0.0	-1.7	-0.1	-3.8
CRITICAL THINKING	-0.5	-0.3	-0.1	-0.6	-0.2	0.0	0.1
PERSEVERANCE	-0.7	-1.0	-0.1	-1.8	-1.9	-0.1	-2.6
ACADEMIC MOTIVATION	-0.4	-2.3	-0.1	-2.3	-2.9*	-0.1*	-4.2
SCHOOL BONDING	-0.5	-1.4	-0.1	-1.4	-1.4	-0.1	-1.5
PYRAMID	-0.2	-1.9	-0.1*	-2.1	-3.3***	-0.1***	-5.0***

. is significant at the 0.05 level; **. is significant at the 0.01 level; *. is significant at the 0.001 level
Models for sub-scores based on 2016-17 and 2017-18 data only*

TABLE B.20 – CITY YEAR DOSAGE AND HSA OUTCOMES

HSA DOMAIN	ELA HOURS	MATH HOURS	BEHAVIOR	BEHAVIOR DAYS	ATTENDANCE DAYS
ACTION ORIENTATION	-0.0020	-0.0008	-0.0114	0.0000	-0.0003
EMOTIONAL CONTROL	0.0014	-0.0022	-0.0062	-0.0001	-0.0003
ASSERTIVENESS	-0.0004	0.0029	-0.0063	-0.0003	-0.0006
TRUST	-0.0027	0.0057*	0.0045	0.0000	0.0001
EMPATHY	-0.0017	0.0043	0.0153*	0.0004	0.0001
REFLECTION	-0.0018	-0.0004	0.0019	0.0002	-0.0011*
OPTIMISM	-0.0031	0.0015	0.0070	0.0003	-0.0011*
RELATIONSHIP WITH PEERS	-0.0037	0.0024	0.0114	0.0003	-0.0003
RELATIONSHIP WITH ADULTS	-0.0074**	0.0057	0.0143	0.0004	-0.0008
LEARNING INTEREST	-0.0059*	0.0052	-0.0116	-0.0002	-0.0005
CRITICAL THINKING	0.0009	0.0025	-0.0018	0.0003	-0.0004
PERSEVERANCE	-0.0040	-0.0021	-0.0128	0.0001	-0.0010
ACADEMIC MOTIVATION	0.0007	0.0005	0.0124	0.0005*	0.0003
SCHOOL BONDING	-0.0003	0.0011	0.0069	0.0001	0.0000
COMPOSITE PYRAMID	-0.0050	0.0027	0.0086	0.0003	-0.0011

**TABLE B.21 – CITY YEAR DOSAGE AND STUDENT RAW OUTCOMES
INTERACTION MODELS**

	ATTENDANCE		ENGLISH COURSE		MATH COURSE	
	MAIN	INTERACTION	MAIN	INTERACTION	MAIN	INTERACTION
ELA DOSAGE (HOURS)	0.38*	-0.36	1.18***	-0.26**	0.23	-0.07
MATH DOSAGE (HOURS)	1.24	-0.88	0.03	-0.02	1.20***	-0.27***
BEHAVIOR DOSAGE (HOURS)	2.04	-1.65	-1.59	0.48	-1.27	0.10

*. is significant at the 0.05 level; **. is significant at the 0.01 level; ***. is significant at the 0.001 level

**TABLE B.22 – CITY YEAR DOSAGE AND DESSA OUTCOME
INTERACTION MODELS**

DESSA DOMAIN	ELA		MATH		BEHAVIOR	
	MAIN	INTERACTION	MAIN	INTERACTION	MAIN	INTERACTION
SELF-AWARENESS	-0.001	-0.001	0.003	-0.002***	0.017*	-0.013***
DECISION MAKING	-0.002	-0.000	0.002	-0.002**	0.030***	-0.017***
GOAL-DIRECTED BEHAVIOR	0.000	-0.001*	0.002	-0.002**	0.017*	-0.012***
SELF-MANAGEMENT	-0.001	-0.001	0.003*	-0.002***	0.026**	-0.014***
OPTIMISTIC	-0.001	-0.001	0.004*	-0.002***	0.010	-0.010**
RELATIONSHIP SKILLS	0.000	-0.001***	0.004*	-0.003***	0.016**	-0.013***
PERSONAL RESPONSIBILITY	-0.002	-0.001	0.002	-0.001*	0.021*	-0.012***
SOCIAL AWARENESS	-0.001	-0.001	0.001	0.002***	0.027***	-0.014***
COMPOSITE SCORE	0.000	-0.001*	0.004*	-0.003***	0.029***	-0.018***



APPENDIX C

SAMPLE DESSA ITEMS

PERSONAL RESPONSIBILITY
HANDLE BELONGINGS WITH CARE
DO ROUTINE TASKS OR CHORES WITHOUT BEING REMINDED
PREPARE FOR SCHOOL ACTIVITIES OR UPCOMING EVENTS
SHOW CARE WHEN DOING A PROJECT OR SCHOOL WORK
DECISION MAKING
ACCEPT RESPONSIBILITY FOR ACTIONS
FOLLOW THE ADVICE OF A TRUSTED ADULT
SHOW AN ABILITY TO DECIDE BETWEEN RIGHT AND WRONG
LEARN FROM EXPERIENCE

GROWTH MINDSET QUESTIONS

PLEASE INDICATE HOW TRUE EACH OF THE FOLLOWING STATEMENTS IS FOR YOU:
FOR EACH OF THESE QUESTIONS, STUDENTS CHOOSE: NOT AT ALL TRUE, A LITTLE TRUE, SOMEWHAT TRUE, MOSTLY TRUE, OR COMPLETELY TRUE.
(1) MY INTELLIGENCE IS SOMETHING THAT I CAN'T CHANGE VERY MUCH
(2) CHALLENGING MYSELF WON'T MAKE ME ANY SMARTER
(3) THERE ARE SOME THINGS I AM NOT CAPABLE OF LEARNING
(4) IF I AM NOT NATURALLY SMART IN A SUBJECT, I WILL NEVER DO WELL IN IT.



APPENDIX D

STATISTICAL RESULTS FROM 2018-19 COLUMBUS SAMPLE DATA

TABLE D.1 - POST DESSA MEASURES AND STUDENT ACADEMIC OUTCOMES – GENDER

SEL MEASURE	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEVEMENT		MATH ACHIEVEMENT	
	MAIN	FEMALE	MAIN	FEMALE	MAIN	FEMALE	MAIN	FEMALE	MAIN	FEMALE
SELF-AWARENESS	-3.4*	-1.9	-0.40*	0.04	-0.42*	-0.22	-0.19	-1.42	-0.65	-1.97
DECISION MAKING	-5.7***	0.1	-0.42**	-0.01	-0.53***	-0.06	-0.98	-0.28	-1.57*	-0.14
GOAL-DIRECTED BEHAVIOR	-3.6*	-1.3	-0.50***	0.00	-0.68***	0.01	-3.60***	0.99	-2.92***	0.71
SELF-MANAGEMENT	-3.5*	-1.5	-0.36*	-0.16	-0.48**	-0.01	-3.27***	0.86	-3.46***	1.75
OPTIMISTIC	-4.7**	-0.6	-0.39*	-0.02	-0.60***	0.08	-0.41	-1.01	-0.75	-0.26
RELATIONSHIP SKILLS	-3.0*	-1.4	-0.10	-0.24	-0.25	-0.37	-1.72	0.75	-1.70*	0.41
PERSONAL RESPONSIBILITY	-3.7*	-2.1	-0.54***	0.00	-0.69***	0.13	-2.38*	0.27	-3.67***	1.23
SOCIAL AWARENESS	-5.2***	1.2	-0.30	0.13	-0.32*	-0.07	-0.88	-0.02	-1.95**	1.72
COMPOSITE SCORE	-4.8***	-0.5	-0.34*	0.01	-0.60***	0.02	-2.17*	0.82	-2.94***	0.74

*, is significant at the 0.05 level; **, is significant at the 0.01 level; ***, is significant at the 0.001 level
(Effect Sizes in parentheses)

TABLE D.2 - POST DESSA MEASURES AND STUDENT ACADEMIC OUTCOMES – OVERAGE

SEL MEASURE	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEVEMENT		MATH ACHIEVEMENT	
	MAIN	OVERAGE	MAIN	OVERAGE	MAIN	OVERAGE	MAIN	OVERAGE	MAIN	OVERAGE
SELF-AWARENESS	-0.2	-3.2	-0.41**	0.01	-0.40**	-0.37	-1.19	1.02	-1.59*	0.13
DECISION MAKING	-1.1	-6.7***	-0.42**	-0.08	-0.56***	0.02	-1.36	0.65	-1.37*	-0.65
GOAL-DIRECTED BEHAVIOR	-2.2*	-4.0*	-0.52***	0.01	-0.62***	-0.17	-3.08***	-0.03	-2.15***	-0.84
SELF-MANAGEMENT	-2.3*	-2.8	-0.46***	0.05	-0.46***	-0.06	-2.83***	-0.04	-2.24***	-0.93
OPTIMISTIC	-0.3	-7.2***	-0.36**	-0.17	-0.50***	-0.15	-1.14	0.49	-1.01	0.22
RELATIONSHIP SKILLS	-0.2	-4.8***	-0.31*	0.13	-0.42**	0.00	-1.01	-1.31	-0.88	-1.28
PERSONAL RESPONSIBILITY	-3.0**	-3.7*	-0.65	0.25	-0.64***	0.12	-2.47**	0.62	-2.92***	0.41
SOCIAL AWARENESS	-1.4	-4.7**	-0.19	-0.14	-0.38**	0.09	-0.67	-0.84	-0.57	-1.42
COMPOSITE SCORE	-4.2***	-2.2	-0.37**	0.03	-0.61***	0.11	-1.39	-1.49	-2.28***	-0.42

*, is significant at the 0.05 level; **, is significant at the 0.01 level; ***, is significant at the 0.001 level
(Effect Sizes in parentheses)

TABLE D.3 - POST DESSA MEASURES AND STUDENT ACADEMIC OUTCOMES – ELL

SEL MEASURE	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEVEMENT		MATH ACHIEVEMENT	
	MAIN	ELL	MAIN	ELL	MAIN	ELL	MAIN	ELL	MAIN	ELL
SELF-AWARENESS	-4.0***	-1.2	-0.39**	-0.19	-0.56***	0.40	-1.37	2.47	-2.03**	3.56*
DECISION MAKING	-5.7***	0.6	-0.43***	-0.18	-0.60***	0.40	-1.20	0.17	-1.58**	0.13
GOAL-DIRECTED BEHAVIOR	-3.8***	-1.9	-0.51***	-0.10	-0.72***	0.44	-3.17***	0.44	-2.17***	-1.22
SELF-MANAGEMENT	-4.3***	0.1	-0.43***	-0.25	-0.52***	0.35	-3.35***	2.31	-2.37***	-0.43
OPTIMISTIC	-4.9***	-0.8	-0.41***	-0.08	-0.58***	0.21	-1.11	0.51	-1.04	0.61
RELATIONSHIP SKILLS	-3.1**	-1.9	-0.22	-0.39	-0.53***	0.89**	-1.41	-0.06	-1.34*	0.50
PERSONAL RESPONSIBILITY	-4.2***	-2.7	-0.52***	-0.54	-0.60***	-0.11	-2.39**	0.56	-2.23***	-2.97*
SOCIAL AWARENESS	-4.5***	-0.3	-0.21	-0.30	-0.38***	0.15	-0.84	-0.46	-0.68	-1.78
COMPOSITE SCORE	-4.6***	-1.9	-0.33**	-0.25	-0.61***	0.16	-1.99*	0.87	-2.35***	-0.17

, is significant at the 0.05 level; **, is significant at the 0.01 level; *, is significant at the 0.001 level
(Effect Sizes in parentheses)*

TABLE D.4 - POST DESSA MEASURES AND STUDENT ACADEMIC OUTCOMES – RACE

SEL MEASURE	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEVEMENT		MATH ACHIEVEMENT	
	MAIN	WHITE/ HISPANIC	MAIN	WHITE/ HISPANIC	MAIN	WHITE/ HISPANIC	MAIN	WHITE/ HISPANIC	MAIN	WHITE/ HISPANIC
SELF-AWARENESS	-4.0**	-1.7/-1.2	-0.31*	-0.73*/-0.27	-0.49***	-0.12/-0.11	-0.69	1.16/-8.00*	-1.50*	2.09/-3.59
DECISION MAKING	-5.3***	-3.9/-0.8	-0.38**	-0.57/-0.29	-0.49***	-0.88*/0.27	-0.96	-1.40/-6.69*	-1.20*	0.15/-7.10*
GOAL-DIRECTED BEHAVIOR	-3.3***	-7.7*/-2.1	-0.44***	-0.72*/-0.01	-0.62***	-0.66*/0.19	-2.56***	-1.47/-6.34*	-2.17***	0.35/-2.60
SELF-MANAGEMENT	-3.8***	-4.0/-0.1	-0.35**	-0.61/-0.29	-0.44***	-0.70/0.33	-2.10**	-2.95/-6.24*	-2.40***	2.34/-2.84
OPTIMISTIC	-4.7***	-4.4/-0.2	-0.37**	-0.71/0.04	-0.49***	-0.54/-0.18	-1.25	1.65/-1.05	-0.98	1.35/-0.26
RELATIONSHIP SKILLS	-3.0**	-4.2/-0.2	-0.13	-0.70*/-0.46	-0.46***	-0.30/0.68	-0.67	-3.90/-4.67	-1.08	-0.92/-0.44
PERSONAL RESPONSIBILITY	-3.9***	-6.2/-4.9	-0.44***	-0.90*/-0.55	-0.55***	-0.63/0.03	-1.60*	-3.81/-8.57*	-2.83***	1.89/-1.47
SOCIAL AWARENESS	-3.7***	-9.3*/-2.0	-0.10	-0.96**/-0.38	-0.29*	-0.94**/0.23	-0.79	-1.68/-1.86	-0.57	-1.32/-4.25
COMPOSITE SCORE	-4.3***	-7.3/-1.7	-0.24	-1.06*/-0.34	-0.51***	-0.82*/-0.09	-1.55*	-1.04/-6.36	-2.08***	-0.03/-5.23*

, is significant at the 0.05 level; **, is significant at the 0.01 level; *, is significant at the 0.001 level
(Effect Sizes in parentheses)*

TABLE D.5 - CITY YEAR DOSAGE AND STUDENT OUTCOMES

	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEV.		MATH ACHIEV.	
	RATE	TRACK	GRADE	TRACK	GRADE	TRACK	RAW	TRACK	RAW	TRACK
ELA DOSAGE (HOURS)	0.001	0.005*	0.012*	0.005	0.012*	0.008*	0.056*	0.006**	0.052*	0.000
MATH DOSAGE (HOURS)	0.001	0.004	0.013	0.010*	0.013	0.012**	0.022	-0.004	0.038	0.006*
BEHAVIOR DOSAGE (HOURS)	0.003	0.010	0.047	0.024	0.037	0.027	0.309	0.019	0.199	0.012
BEHAVIOR DOSAGE (DAYS)	0.000	0.000	0.000	0.000	0.001	0.000	0.005*	0.000	0.002	0.000
ATTENDANCE DOSAGE (DAYS)	0.000	0.000	0.0000	0.000	0.001	0.000	0.000	0.000	0.000	0.000

*. is significant at the 0.05 level; **. is significant at the 0.01 level; ***. is significant at the 0.001 level

TABLE D.6 - CITY YEAR DOSAGE AND STUDENT OUTCOMES – FEMALE (RAW)

	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEV.		MATH ACHIEV.	
	MAIN	WHITE/BLACK	MAIN	WHITE/BLACK	MAIN	WHITE/BLACK	MAIN	WHITE/BLACK	MAIN	WHITE/BLACK
ELA DOSAGE (HOURS)	0.000	0.000	0.005	0.013	0.010	0.003	0.117**	-0.107*	0.111**	-0.098*
MATH DOSAGE (HOURS)	0.002	-0.001	0.014	-0.002	0.019	-0.012	0.077	-0.107	0.065	-0.048

*. is significant at the 0.05 level; **. is significant at the 0.01 level; ***. is significant at the 0.001 level

TABLE D.7 - CITY YEAR DOSAGE AND STUDENT OUTCOMES – FEMALE (TRACK)

	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEV.		MATH ACHIEV.	
	MAIN	WHITE/BLACK	MAIN	WHITE/BLACK	MAIN	WHITE/BLACK	MAIN	WHITE/BLACK	MAIN	WHITE/BLACK
ELA DOSAGE (HOURS)	0.005	0.001	0.002	0.006	0.008	-0.001	0.009**	-0.005	0.004	-0.007*
MATH DOSAGE (HOURS)	0.010*	-0.011	0.020	-0.003	0.015*	-0.008	-0.001	-0.004	0.006	-0.001

*. is significant at the 0.05 level; **. is significant at the 0.01 level; ***. is significant at the 0.001 level

TABLE D.8 - CITY YEAR DOSAGE AND STUDENT OUTCOMES – OVERAGE (RAW)

	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEV.		MATH ACHIEV.	
	MAIN	OVERAGE	MAIN	OVERAGE	MAIN	OVERAGE	MAIN	OVERAGE	MAIN	OVERAGE
ELA DOSAGE (HOURS)	0.001	0.000	0.012*	-0.001	0.012*	-0.004	0.055	0.003	0.047	0.017
MATH DOSAGE (HOURS)	0.001	0.001	0.014	-0.001	0.015	-0.007	0.012	0.035	0.048	-0.030

*. is significant at the 0.05 level; **. is significant at the 0.01 level; ***. is significant at the 0.001 level

TABLE D.9 - CITY YEAR DOSAGE AND STUDENT OUTCOMES – OVERAGE (TRACK)

	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEV.		MATH ACHIEV.	
	MAIN	OVERAGE	MAIN	OVERAGE	MAIN	OVERAGE	MAIN	OVERAGE	MAIN	OVERAGE
ELA DOSAGE (HOURS)	0.007**	-0.009*	0.005	0.000	0.008*	-0.002	0.007**	-0.004	-0.001	0.002
MATH DOSAGE (HOURS)	0.006	-0.007	0.009	0.004	0.010*	0.004	-0.007*	0.012	0.006*	0.000

*, is significant at the 0.05 level; **, is significant at the 0.01 level; ***, is significant at the 0.001 level

TABLE D.10 - CITY YEAR DOSAGE AND STUDENT OUTCOMES – ELL (RAW)

	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEV.		MATH ACHIEV.	
	MAIN	ELL	MAIN	ELL	MAIN	ELL	MAIN	ELL	MAIN	ELL
ELA DOSAGE (HOURS)	0.001*	-0.003*	0.015**	-0.035	0.015**	-0.044*	0.070*	-0.060	0.061*	-0.039
MATH DOSAGE (HOURS)	0.002*	-0.003	0.019*	-0.048*	0.017*	-0.038	0.014	0.032	0.058	-0.082

*, is significant at the 0.05 level; **, is significant at the 0.01 level; ***, is significant at the 0.001 level

TABLE D.11 - CITY YEAR DOSAGE AND STUDENT OUTCOMES – ELL (TRACK)

	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEV.		MATH ACHIEV.	
	MAIN	ELL	MAIN	ELL	MAIN	ELL	MAIN	ELL	MAIN	ELL
ELA DOSAGE (HOURS)	0.008***	-0.014**	0.006	-0.002	0.010**	-0.023	0.007**	-0.005	0.000	0.000
MATH DOSAGE (HOURS)	0.007	-0.011	0.014**	-0.029*	0.015***	-0.027*	-0.004	0.000	0.008**	-0.009

*, is significant at the 0.05 level; **, is significant at the 0.01 level; ***, is significant at the 0.001 level

TABLE D.12 - CITY YEAR DOSAGE AND STUDENT OUTCOMES – RACE (RAW)

	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEV.		MATH ACHIEV.	
	MAIN	ELL	MAIN	ELL	MAIN	ELL	MAIN	ELL	MAIN	ELL
ELA DOSAGE (HOURS)	0.001	0.000/0.002	0.012*	0.001/0.036	0.012*	-0.010/0.026	0.059*	0.095/-0.133	0.061*	-0.108/0.073
MATH DOSAGE (HOURS)	0.001	0.001/-0.003	0.017*	0.009/-0.031	0.014	0.021/-0.032	0.040	-0.118/-0.005	0.037	0.031/0.144

*, is significant at the 0.05 level; **, is significant at the 0.01 level; ***, is significant at the 0.001 level

TABLE D.13 - CITY YEAR DOSAGE AND STUDENT OUTCOMES – RACE (TRACK)

	ATTENDANCE		ENGLISH COURSE		MATH COURSE		ENGLISH ACHIEV.		MATH ACHIEV.	
	MAIN	ELL	MAIN	ELL	MAIN	ELL	MAIN	ELL	MAIN	ELL
ELA DOSAGE (HOURS)	0.004	0.016/0.007	0.004	0.005/0.023	0.008*	-0.002/0.013	0.005*	0.027**/-0.002	0.001	-0.017*/-0.012
MATH DOSAGE (HOURS)	0.006	0.003/-0.026	0.011*	0.016/-0.015	0.011*	0.008/0.002	-0.001	-0.018/-0.012	0.005*	0.009/-0.001

*. is significant at the 0.05 level; **. is significant at the 0.01 level; ***. is significant at the 0.001 level

TABLE D.14 - CITY YEAR ELA DOSAGE AND DESSA OUTCOMES (FEMALE & OVERAGE)

DESSA DOMAIN	MAIN	FEMALE	MAIN	OVERAGE
SELF-AWARENESS	-0.014***	0.000	-0.016***	0.006
DECISION MAKING	-0.009**	0.000	-0.011***	0.003
GOAL-DIRECTED BEHAVIOR	-0.012***	0.006	-0.010***	0.002
SELF-MANAGEMENT	-0.008**	-0.003	-0.010***	0.001
OPTIMISTIC	-0.010***	-0.001	-0.012***	0.003
RELATIONSHIP SKILLS	-0.014***	0.006	-0.013***	0.009*
PERSONAL RESPONSIBILITY	-0.007*	-0.001	-0.007**	-0.002
SOCIAL AWARENESS	-0.011***	0.001	-0.012***	0.007
COMPOSITE SCORE	-0.010***	-0.003	-0.013***	0.003

TABLE D.15 - CITY YEAR ELA DOSAGE AND DESSA OUTCOMES (ELL & RACE)

DESSA DOMAIN	MAIN	ELL	MAIN	WHITE/BLACK
SELF-AWARENESS	-0.014***	0.000	-0.014***	0.002/-0.002
DECISION MAKING	-0.009***	-0.005	-0.010***	0.007/-0.006
GOAL-DIRECTED BEHAVIOR	-0.010***	0.002	-0.010***	0.009/-0.003
SELF-MANAGEMENT	-0.009***	-0.005	-0.010***	-0.002/-0.011
OPTIMISTIC	-0.012***	0.002	-0.011***	0.003/-0.007
RELATIONSHIP SKILLS	-0.009***	-0.008	-0.012***	0.019*/-0.009
PERSONAL RESPONSIBILITY	-0.007**	-0.003	-0.008***	0.011/0.001
SOCIAL AWARENESS	-0.009***	-0.007	-0.009***	-0.005/-0.013
COMPOSITE SCORE	-0.011***	-0.003	-0.012***	0.005/-0.008



