Contact email: sbyun10@jhu.edu

Title: A Meta-Analytic Review of Research on Social and Emotional Learning Programs

Authors: Sooyeon Byun, Johns Hopkins University – Presenting Author

(sbyun10@jhu.edu)

Amanda J. Inns, Johns Hopkins University

(ainns1@jhu.edu)

Elizabeth Kim, Johns Hopkins University

(ekim116@jhu.edu)

Cynthia Lake, Johns Hopkins University

(clake5@jhu.edu)

Robert Slavin, Johns Hopkins University

(<u>rslavin@jhu.edu</u>)

Background

Identifying effective social and emotional learning (SEL) programs has become more critical under the recent ESSA law, which encourages schools to use nonacademic indicators. A number of reviews on SEL programs have contributed to identifying the effects of SEL interventions on children's wellbeing (e.g., Durlak, Weissberg, Dymnicki, Taylor, & Schellinger, 2011; Goldberg, Sklad, Elfrink, Schreurs, Bohlmeijer, & Clarke, 2019). Yet each of these studies has its own limitations.

Often, reviews have failed to set a minimum duration of intervention (e.g., Durlak et al., 2011; Goldberg et al., 2019; Wigelsworth et al., 2016). Short-term interventions can inflate effect sizes (de Boer, Donker, & Van der Werf, 2014) and limit external validity. Some reviews only included peer-reviewed articles (e.g., Boncu, Costea, & Minulescu, 2017), or significant outcomes (e.g., Grant et al, 2017), though these procedures can greatly overstate effect sizes (e.g., Polanin, Tanner-Smith, & Hennesey, 2016). Also, many studies limited the scope of review to particular topic areas (e.g., Cantone, et al., 2015), program (e.g., Maggin & Johnson, 2014), sample characteristics (e.g., Chung, Carter & Sisco, 2012), formats (e.g., Durlak, Weissberg, & Pachan, 2010), or types of outcomes (e.g., Corcoran, Cheung, Kim, & Xie, 2018).

The current study attempts to provide a stronger review on SEL programs with more thorough and rigorous inclusion criteria, building upon the previous reviews.

Purpose

This study aims to produce a comprehensive and rigorous up-to-date review on SEL programs, addressing limitations in previous reviews. Through its work, the study expects to promote effective use of proven SEL programs in school settings.

Method

The current study takes a best-evidence synthesis approach (Slavin, 1986), which is the combination of traditional meta-analysis (Lipsey & Wilson, 2001) with detailed descriptions of individual programs and studies.

Data Collection

A master list of SEL programs was created, integrating lists of SEL programs developed by credible organizations, such as Blueprints, CASEL, and the What Works Clearinghouse, with a well-developed systematic review (Grant et al., 2017). Initial electronic searches were made of educational databases including ERIC, JSTOR, and PsycInfo, to identify studies meeting inclusion criteria for each program. To locate unpublished reports and other possible inclusions, Google Scholar, citations from identified studies and previous reviews, and each program's official websites were also searched. New programs located in the search process were added to the master list.

Inclusion Criteria

Accepted studies must:

- 1. Be published between 1990 and 2019 (between 2000 to 2019 for programs using educational technologies).
- 2. Evaluate SEL programs for K-12 students.
- 3. Include a comparison group of children receiving "business as usual" services.
- 4. Take place in the United States.

- 5. Use either random assignment or quasi-experimental methods with adjustments for pretest differences. The level of assignment could be schools, teachers, or students.
- 6. Demonstrate baseline equivalence between groups based on the analytic sample (after attrition) of less than 0.25 SD for pretests of outcome measures, and 0.50 SD for demographic covariates.
- 7. Use quantitative measures of outcomes that examine actual behaviors or intention for behaviors (not attitudes or beliefs). Experimenter- or developer-made measures that were over-aligned to treatment were excluded.
- 8. Include at least 30 students and 2 teachers in each condition. When treatment was assigned at the cluster level, there needed to be at least two units in each condition.
- 9. Use duration of 12 weeks from the beginning of the intervention to the posttest.
- 10. Evaluate programs that would be replicated. If programs were delivered by research staff or provided levels of support which would not be feasible in actual practice, studies were excluded.

Analytic Plan

Effect sizes were calculated following Lipsey and Wilson's (2001) guidelines. The difference between adjusted posttest scores for treatment and control students were divided by the unadjusted standard deviation of the control group. When any of this information was unavailable, alternative procedures were used, as described by Lipsey and Wilson (2001).

In meta-analysis models, studies are weighted, each according to its precision, to give more weight to studies with the greatest precision (Hedges, Tipton, & Johnson, 2010), with adjustment for clustering (Hedges, 2007). Multivariate meta-regression models with robust variance estimation (Hedges et al., 2010) were estimated, using a small-sample correction (Tipton, 2015).

Outcomes are organized into four main categories: Academic Outcomes (Table 2), Problem Behaviors (Table 3), Social Relationships (Table 4), and Emotional Wellbeing (Table 5). Each set of outcomes is analyzed separately. Effect sizes for Problem Behaviors were reversed to indicate fewer problems.

Findings/Results

A total of 56 studies of 38 SEL programs met the inclusion criteria (Table 1). Overall, these studies exhibited a high level of methodological rigor, with 87.5% (n=49) of the studies randomized at either the student or cluster level and only 12.5% (n=7) using quasi-experimental methods. Studies with outcomes in each category are summarized in Tables 6-9.

Meta-analytic models for each category are summarized in Tables 2-5. In each case, first a null model was estimated, giving the mean effect size across all outcomes of that type. Then a meta-regression model was estimated, controlling for methodological factors (study level of assignment and research design), as well as outcome factors (sub-category of outcome and whether it was self-reported by students).

To assess the degree of heterogeneity in the effect sizes, a 95% prediction interval was calculated for each of the full meta-regressions. For academic outcomes, this was -.03 to .31. For problem behaviors it was -.10 to .15. For social relationship outcomes it was -.07 to .24, and it was .13 to .49 for emotional wellbeing outcomes. While the mean effect sizes of academic outcomes (ES=+0.14), social relationships (ES=+0.09), and emotional wellbeing (ES=+0.31) were practically meaningful, the mean effect size for problem behaviors was close to zero

(ES=+0.02). However, in all cases the degrees of freedom were small, so these results must be interpreted with caution.

Conclusions

There are several hundred SEL programs available in the field. Yet the effectiveness of those programs varies. Schools should be encouraged to choose the proven programs most appropriate to their contexts, to maximize intervention effects.

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^{*}Included in the review

Table 1. Summary of included studies

	All	Academic	Problem	Social	Emotional	
	7 ***	Outcomes	Behaviors	Relationships	Wellbeing	
Programs	38	26	33	29	17	
Studies	56	36	44	34	19	
ES	455	99	170	149	37	

Table 2. Meta-Regression Results: Academic Outcomes

Coefficients	В	SE	t	df	p
Null Model					
Intercept	0.094	0.016	5.980	11.818	0.000
Meta-Regression					
Intercept	0.137	0.090	1.531	1.638	0.291
Randomized	-0.033	0.090	-0.367	1.618	0.756
Clustered	-0.030	0.037	-0.810	16.229	0.430
Self-report	0.006	0.032	0.187	4.524	0.860
Academic Outcom	nes Subcategories	+			
Academic Performance	-0.000	0.026	-0.002	8.966	0.999

Note. ⁺Academic Engagement is the reference group.

Table 3. Meta-Regression Results: Problem Behaviors

Coefficients	В	SE	t	df	p
Null Model					
Intercept	0.067	0.014	4.746	24.634	0.000
Meta-Regression					
Intercept	0.024	0.038	0.640	5.143	0.550
Randomized	0.031	0.034	0.904	3.934	0.418
Clustered	0.019	0.030	0.640	14.461	0.532
Self-report	-0.021	0.021	-1.006	12.218	0.334
Problem Behaviors	Subcategories ⁺				
Bullying	0.022	0.026	0.840	12.205	0.417
Disruptive behavior	0.029	0.018	1.611	16.102	0.127
Drug/alcohol abuse	-0.046	0.069	-0.661	3.799	0.547
Sexual/racial harassment or aggression	-0.038	0.019	-1.987	5.089	0.103

Note. All effect sizes were reversed to indicate *fewer* problem behaviors. ⁺Aggression/conduct problems is the reference group.

Table 4. Meta-Regression Results: Social Relationships

Coefficients	В	SE	t	df	p
Null Model					
Intercept	0.111	0.019	5.775	14.539	0.000
Meta-Regression					
Intercept	0.088	0.093	0.941	3.146	0.413
Randomized	0.041	0.053	0.778	2.146	0.513
Clustered	0.009	0.052	0.171	10.190	0.868
Self report	-0.009	0.039	-0.217	10.564	0.832
Social Relationship	s Subcategories ⁺				
Interpersonal Relationships	-0.021	0.047	-0.454	10.352	0.659
Prosocial behavior	-0.002	0.040	-0.049	10.123	0.962
School climate	-0.014	0.034	-0.409	10.794	0.691
Social skills	-0.023	0.033	-0.697	9.077	0.503

Note. ⁺Empathy is the reference group.

Table 5. Meta-Regression Results: Emotional Wellbeing

Coefficients	В	SE	t	df	p
Null Model					
Intercept	0.111	0.029	3.827	12.720	0.002
Meta-Regression					
Intercept	0.313	0.356	0.879	1.426	0.502
Randomized	0.047	0.058	0.808	3.347	0.473
Clustered	-0.183	0.357	-0.512	1.441	0.676
Self report	-0.240	0.360	-0.668	1.721	0.583
Emotional Wellbei	ing Subcategories ⁺				
Emotional Regulation	-0.012	0.062	-0.192	4.188	0.857
Reduced anxiety/ depression	-0.070	0.009	-8.210	2.359	0.009
Self-esteem/ self-efficacy	0.072	0.082	0.876	3.208	0.442

Note. ⁺Coping skills/stress management is the reference group.

Table 6. Study Details: Academic Outcomes

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
	L	CD	2	1	18	18 schools in NYC 46% H, 41% AA, 4%	Attendance	+0.03
	Jones et al. (2011)	CR	3	1 year	schools	W, 9% Other, 62% below federal poverty level	Academic skills	-0.10
4Rs	Social and Character Development Research Consortium (2010)	CR	3	1 year	14 schools	14 schools in NYC; 46% H, 41% AA, 5% W	Engagement with learning	-0.08
Academic and Behavioral Competencies Program (ABC)	Social and Character Development Research Consortium (2010)	CR	3	1 year	12 schools	12 schools in 3 districts in upstate NY; 33% W, 41% AA, 17% H.	Engagement with learning	0.00
							Reading	+0.14*
	Corsello &				495	1 suburban school in	Cumulative GPA in core courses	+0.24*
	Sharma (2015)	SR	9	1 year	students	southern CA; 52% W, 37% H, 68% FRL,	Math	+0.34*
BARR	(====,				stadents	17% ELL.	Number of credits earned in core courses	+0.19*
					2692	11 high schools in	Grit	0.00
	Bos et al. (2019)	SR 9		1 year	2683 students	ME, CA, KY, MN, TX	Student academic engagement	+0.11*

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
						serving urban, suburban, and rural	Students' belief on teacher expectations	+0.25*
						areas; 55% H, 25%W, 8% AA, 32% ELL, 77% FRL	Persistence to grade 10	+0.08
						(approximates)	Chronic absence	+0.04
							Reading	+0.01
							GPA	+0.11*
							Math	+0.01
							Course failure	+0.31*
							College expectations	+0.05
							Academic self- esteem	+0.04
							Absence without excuse	+0.26*
						71 schools, 10 BBBS	Classroom effort	+0.07
						agencies, 1140 students; 37% W, 23% H, 18% AA, 6% Native American, 13% multiracial, 1%	Scholastic efficacy	+0.11*
BBBS	Herrera et al (2007)	SR	4-9	2 years	1139 students		Number of assignments completed	+0.14*
						A, 3% Other	Start to skip school	+0.25*
							Task orientation	+0.06
							Academic performance	+0.09*
							Quality of classwork	+0.12*
							GPA	+0.04

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
							School preparedness	+0.03
					2740	18 Chicago Public Schools in some of the city's most	Academic engagement (GPA, days present, and enrollment status at end of year)	+0.06*
	Heller et al (2013)	SR	7-10	1 year	students	disadvantaged and dangerous	Enrollment in school at the end of the year	+0.05
Becoming a Man						neighborhoods; 70% AA, 30% H	Days present	+0.05
Ivian						70/0 7111, 50/0 11	Grit/persistence	+0.07
							GPA	+0.06
	Heller et al (2017)	SR	9-10	2 years	2064 students	9 high schools in Chicago; 69% AA, 29% H	Academic engagement (GPA, days present, and enrollment status at end of year)	+0.05*
Check &	Maxmand at al				189		Attendance	+0.01
Connect (C&C)	Maynard et al. (2014)	SR	6-12	1 year	students	14 CIS schools	Academic performance	+0.07
Check, Connect, and Expect	Cheney et al. (2009)	CR	1-5	2 years	18 schools	Students at risk of emotional or behavior disorders in 3 school districts in western WA; 53% FRL	Reading	+0.28

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
Competence Support Program (CSP)	Social and Character Development Research Consortium (2010)	CR	3	1 year	10 schools	10 schools from 2 districts in 2 counties in NC; 47% W, 35% B, 10% H	Engagement with learning	+0.04
Coning Down	Lochman & Wells (2002)	SR	5-6	16 months	213 students	17 elementary schools in a small-sized city in the southeastern US	Academic competence	+0.24
Coping Power	Lochman et al. (2012)	CR		18	49 Counsel	57 public schools in	Math grades	+0.24
			4-5	months	ors	north central AL; 84% AA	Language arts grades	+0.19
Coping with the Middle School Transitions	Lochman & Wells (2002)	CR	5-6	16 months	60 Classroo ms	17 elementary schools in a small-sized city in the southeastern US	Academic competence	+0.09
	Wills et al. (2016)	CR	K-6	18 weeks	159 classes	17 schools in urban and culturally diverse communities in the US	Student on-task behavior	+0.47*
CW-FIT	Caldarella et al.					10 outpumiller discourse	Academic behavior	+0.41
	(2018)	CR	K-6	4 months	160 classes	19 culturally diverse schools from MO, TN, UT; 43% W,	Academic competence	-0.01
	Wills et al. (2018)	_		monuis		15% H, 39% AA	Student on-task behavior	+0.49*

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
Facing History and Ourselves	Barr et al. (2015)	CR	9-10	1 year	62 schools	62 schools in Chicago, Cleveland, Denver, LA, Memphis/ Nashville, New England, NY/NJ, and San Francisco; 36% H, 32% W, 13% AA, 13% A	Historical Understanding	+0.14*
Fast Track	Conduct Problems				54	54 schools in high risk neighborhood in	Woodcock Letter Attack	+0.01
(Selective)	Prevention Research Group (1999)	CR	1	1 year	schools	chools NC, TN, WA, PA; 51% AA, 47% W,	Spache Word Attach	+0.17*
						35% low SES	Language arts grades	-0.01*
GAT	Jacob et al. (2012)	CR	K-3	39	6 schools	6 schools in Phoenix, AZ; 92% FRL, 30%	Attentive/impulse control	+0.13
	,			weeks		EL, 80% H	Literacy	+0.08
Incredible						9 urban schools in a	Concentration prob.	-0.07
Years Teacher Classroom	Reinke et al.	CR	K-3	1 year	104 classes	school district in the Midwestern US.	Academic comp.	+0.08*
Management	(2018)	CK	K-3	i yeai	Classes	76% AA, 22% W,	Reading	-0.15
Program						61% FRL, 9% SPED	Math	-0.03
							Off-task behaviors	-0.30
	M.C. 11 . 1				22	22 schools from 3	Math skills	+0.01
INSIGHT	McCormick et al. (2016)	CR	K-1	1 year	schools	urban low-income districts; 75% AA,	Critical thinking	-0.15
	(2016)					16% H, 83% FRL	Math achievement	-0.08
						,	Reading skills	+0.06

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
Love in a Big World (LIBW)	Social and Character Development Research Consortium (2010)	CR	3	1 year	12 schools	12 schools in 2 school districts in 2 counties in TN; 65% W, 21% AA, 8% H	Engagement with learning	+0.01
PATHS	Social and Character Development Research Consortium (2010)	CR	3	1 year	10 schools	10 schools from 1 district in MN and 2 districts in NY; 56% W, 22% AA, 12% H.	Engagement with learning	+0.05
	Snyder et al. (2010)			5 4 years	20 schools	20 schools in e	Attendance	+0.20
		CR	1-5			Hawai'ian islands; 26% Hawaiian, 9%	Reading	+0.12
						W, 2% AA, 25% A, at least 25% FRL	Reading	+0.20*
Positive Action	Social and Character Development Research Consortium (2010)	CR	3	1 year	14 schools	14 schools in an urban school district in Chicago; 46% AA, 27% H, 7% W, 3% A	Engagement with learning	-0.25*
						14 low-income, urban	Attendance	+0.20
	Bavarian et al. (2013)	CR	3-8	6 years	14 schools	public schools in	Math	+0.17
				o jeun			Reading	+0.10

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
Reaching						1middle school in Northern Virginia;	Academic self- concept	+0.46
Academic	Holloway (2004)	SR	6-8	18 weeks	75 students	44% AA, 19% H,	Attendance	-0.10
Potential				WEEKS	students	32% W, 4% A, 66%	Learning behaviors	+0.08
						male	GPA	-0.01
RULER	Brackett et al. (2012)	CQE	5-6	7 months	6 schools	3 schools in Long Island, NY	School problems (e.g. attention, learning problems)	-0.27
	Low et al. (2015)	CR	K-2	1 year	61 schools	61 schools in Washington and AZ; 50-78% FRL, 40-46% W, 6-8% AA, 15-475 H, 0-18% A	Skills for learning	+0.11*
Second Step	Social and Character Development Research Consortium (2010)			3 1 year	12	12 schools in MD;	Engagement with learning	-0.03
		CR	3		schools	83% W, 7% B, 5% H, 8% O	Academic competence and motivation	-0.06
	Neace & Munoz (2012)	CQE	1	2 years	24 schools	54% racial minority; 53% low SES	Absence without excuse - Cohort 2	+0.09
Social Skills Improvement	DiPerna et al.	~~		12	38	6 schools in the Mid- Atlantic region. Four	Reading	-0.14
System Classwide	(2016)	CR	CR 2		classes	urban two rural schools.	Math	-0.07

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
Intervention Program (SSIS-CIP)	DiPerna et al.	CR	1	12	57 classes	6 elementary schools in the Mid-Atlantic US; 70% W, 24%	Math	+0.04
(2212 011)	(2018)	CK	1	weeks	ciasses	AA, 5% A, 9% H, 6% SPED	Reading	+0.07
Steps to	Brown et al.	CR	3-5	1 year	33 schools	33 schools in north-	Academic performance	-0.01
Respect (20	(2011)	CK	3-3	1 year	schools	central CA	Academic competence	+0.02
							Ability to hold information for task completion	+0.08
							Organization of materials	+0.29*
Student	Lambargar at al				11	11 classrooms in rural suburban middle school in	Pacing and completion rates for a given activity	+0.40*
Success Skills	Lemberger et al. (2015)	CR	7	1 year	classes	school in southwestern US; 66% H, 38% W, 8% O	Awareness of strengths, weaknesses, and related behaviors	+0.34
							Impulse control	+0.17
							Ability to anticipate and react to future events or consequences	+0.49*

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
							Ability to cognitively move from one activity to another	+0.29*
	Campbell & Brigman (2005)	QE	5-6	1 year	308 students	20 schools in FL; 82% W, 8% AA, 5% H, 60%FRL	Reading	+0.24*
	Webb et al. (2005)	SR	5-6	1 year	418 students	20 schools in FL; 85% W, 4% AA, 9% H, 45% FRL	Reading	+0.14
	Blair et al. (2018)			29	29 schools in 12	Academic competence	+0.04	
Tools of the	ools of the Sind Blair & Ravor (2014)	CR	K	1 year	schools	districts; 73% W, 2%	Vocabulary	+0.01
IVIIIIU						AA, 7% H, 4% A	Math	+0.06*
	(2011)						Reading	+0.06

Note. CR=Cluster randomized, SR=Student randomized, CQE=Cluster quasi-experimental, SQE=Student quasi-experimental, A=Asian American, AA=African American, H=Hispanic, W=White, not Hispanic, O=Other, EL=English learner, FRL=Free and reduced lunch, SPED=Special Education.

Table 7. Study Details: Problem Behaviors

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
				-		18 schools in NYC;	Aggression and conduct problems – Teacher report	+0.03
					18	46% H, 41% AA, 4%	Aggressive fantasies	-0.17
4Rs	Jones et al. (2011)	CR	3	1 year	schools	W, 9% Other, 62% below federal poverty level	Aggressive interpersonal negotiation strategies	-0.01
							ADHD related behavior	+0.03
	Social and Character						Aggression and delinquent behaviors – Student report	+0.04
	Development Research Consortium	CR	3	1 year	14 schools	14 schools in NYC; 46% H, 41% AA, 5% W	Aggression and conduct problems – Parent report	-0.11
	(2010)						Victimization at school	+0.08
Academic and	Social and						Aggression and delinquent behaviors – Student report	-0.04
Academic and Behavioral Competencies Program (ABC)	Character Development Research Consortium	CR	3	1 year	12 schools	12 schools in 3 districts in upstate NY; 33% W, 41% AA, 17% H.	Aggression and conduct problems – Teacher report	-0.03
	(2010)					71Λ, 17 /0 11.	Aggression and conduct problems – Parent report	0.00

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
							Victimization at school	+0.08
							ADHD related behavior	+0.01
BARR	Bos et al. (2019)	SR	9	1 year	2863 students	11 high schools in ME, CA, KY, MN, TX serving urban, suburban, and rural areas; 55% H, 25%W, 8% AA, 32% ELL, 77% FRL	Suspensions	+0.02
						71 schools, 10 BBBS	Difficulty in class	+0.04
BBBS	Herrera et al	SR	4-9	2 22000	1139	agencies, 1140 students; 37% W,	Misconduct outside of school	-0.07
DDDS	(2007)	SK	4-9	2 years	students	23% H, 18% AA, 6% Native American,	School misconduct	+0.24*
						13% multiracial, 1% A, 3% Other	Substance use	-0.11
Becoming a Man	Heller et al (2013)	SR	7-10	1 year	2740 students	18 Chicago Public Schools in some of the city's most disadvantaged and dangerous neighborhoods; 70% AA, 30% H	Arrests	+0.08
	Heller et al (2017)	SR	9-10	2 years	2064 students	9 high schools in Chicago; 69% AA, 29% H	Arrests	+0.08*

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
	David Land				24	24 elementary schools	Status offenses and delinquent behaviors	+0.05
Caring School Community	Battistich et al. (2000)	CQE	3-5	3 years	schools	from six districts; 21% AA, 19% H	Victimization at school	-0.04
							Drug Use	-0.03
Check & Connect (C&C)	Maynard et al. (2014)	SR	6-12	1 year	189 students	14 CIS schools	Office referrals	+0.27
Check,	Cheney et al.				18	Students at risk of emotional or behavior	Externalizing behavior	+0.11
Connect, and Expect	(2009)	CR	1-5	2 years	schools	disorders in 3 school districts in western WA; 53% FRL	delinquent behaviors Victimization at school Drug Use Office referrals Externalizing behavior Problem behavior Aggression and conduct problems – Teacher report Aggression and conduct problems – Parent report Aggression and delinquent behaviors – Student report Victimization at	+0.29
							conduct problems –	-0.09
Competence	Social and Character				10	10 schools from 2	conduct problems –	+0.11
Support Program (CSP)	Development Research Consortium (2010)	CR	3	1 year	schools	districts in 2 counties in NC; 47% W, 35% B, 10% H	delinquent behaviors	-0.04
	(2010)						Victimization at school	-0.08
							ADHD related behavior	+0.03

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
							Proactive Aggression – Parent report	+0.24
							Expectation that aggressive behavior would lead to positive outcomes	+0.20
						45.1	Reactive Aggression – Teacher report	+0.09
	Lochman & Wells (2002)	SR	5-6	16 months	213 students	17 elementary schools in a small-sized city in the southeastern	Reactive Aggression – Parent report	-0.04
	(2002)			months	students	US	Aggression	-0.05
Coping Power							Proactive Aggression - Teacher report	+0.11
2 0							Behavioral improvement	+0.3*
							Dysregulation	+0.09
							Peer substance uses	-0.11
							Substance use	+0.06
	Lochman et al.	CR	4-5	18	49 counsel-	57 public schools in north central AL;	Positive impression about aggression	0.00
	(2009)		- T-J	months	ors	84% AA	Hitting or threatening	+0.04
	Lochman et al.		×	8 schools from 1	Aggression	+0.21		
	(2017)	CR	5	months	schools	school system in AL; 93% AA	Conduct problems	+0.27

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
							Expectation that aggressive behavior would lead to positive outcomes	+0.05
							Reactive Aggression – Teacher report	+0.08
Coping with the Middle School Transitions						17 elementary schools	Reactive Aggression – Parent report	-0.02
	Lochman & Wells (2002)	CR	5-6	16 months	60 classes	in a small-sized city in the southeastern	Improvement in aggressive behaviors	-0.12
						US	Proactive Aggression – Parent report	+0.03
							Proactive Aggression – Teacher report	+0.24
							Dysregulation	-0.03
							Peer substance uses	+0.13
							Substance use	+0.18
	Wills et al. (2016)	CR	K-6	18 weeks	159 classes	17 schools in urban and culturally diverse communities in the US	Disruptive behavior	+0.38*
CW-FIT					1.50	19 culturally diverse	Antisocial behavior	+0.16
	Caldarella et al. (2018)	CR	K-6	4 months	160 classes	schools from MO, TN, UT; 43% W,	Externalizing behavior	+0.18
						15% H, 39% AA	Bullying	+0.04

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
							Hyperactivity/inatten tion	+0.32
							problem behaviors total	+0.20
							Autistic symptoms	+0.12
Facing History and Ourselves	Schultz et al. (2001)	CQE	8	12 weeks	9 teachers	Public schools in northeastern US	Fighting	+0.16
							Aggressive and oppositional behaviors – Teacher report	+0.04
	Conduct					54 schools in high	Aggressive and oppositional behaviors – Parent report	-0.20
Fast Track (Selective)	Problems Prevention Research Group	CR	1	1 year	54 schools	risk neighborhood in NC, TN, WA, PA; 51% AA, 47% W,	Externalizing behavior – Parent report	-0.05
	(1999)					35% low SES	Aggressive and oppositional behaviors – Observer report	-0.18*
							Externalizing behavior – Teacher report	0.00
							Aggression	+0.10

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
Incredible Years - Child	Reid et al. (2007)	CR	K-1	2 vaars	14 schools	14 high FRL schools	Externalizing behavior – Parent report	+0.18
+ Parent Training	Keid et al. (2007)	CK	K-1	2 years	SCHOOIS	in Seattle	Externalizing behavior – Teacher report	+0.24
Incredible					1.4		Externalizing behavior – Parent report	+0.29
Years - Dinosaur Social Skills	Reid et al. (2007)	CR	K-1	2 years	14 schools	14 high FRL schools in Seattle	Externalizing behavior – Teacher report	+0.33
							Child negative behavior	+0.05
Incredible Years Teacher Classroom Management Program (IY TCM)	Reinke et al. (2018)	CR	K-3	1 year	104 classes	9 urban schools in a school district in the Midwestern US; 76% AA, 22% W, 61% FRL, 9% SPED	Disruptive behavior	-0.04
INSIGHT	McCormick et al.	CR	K-1	1 year	22 schools	22 schools from 3 urban low-income	Behavior problems	-0.18
INSIGHT.	(2016)			- 5001		districts; 75% AA, 16% H, 83% FRL	Behavioral engagement	+0.18
Love in a Big World (LIBW)	Social and Character Development	CR	3	1 year	12 schools	12 schools in 2 school districts in 2 counties;	Aggression and conduct problems – Teacher report	-0.08

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
	Research Consortium (2010)					in TN; 65% W, 21% AA, 8% H	Aggression and delinquent behaviors – Student report	-0.05
						Aggression and conduct problems – Parent report		-0.06
				Victimization at school	+0.07			
							ADHD related behavior	-0.12
					10	10 1 1 0 1	Feelings towards bullying	-0.04
Olweus	Bauer et al. (2007)	CQE	6-8	1 year	10 schools	10 schools in Seattle; 35% W, 24% A, 16% AA, 7% H	Relational victimization	0.00
						711, 7 /0 11	Physical victimization	+0.01
							Aggression and conduct problems – Teacher report	-0.03
PATHS	Social and Character Development Research Consortium (2010)	CR	3	1 year	10 schools	10 schools from 1 district in MN and 2 districts in NY;	Aggression and delinquent behaviors – Student report	+0.10
				-		56% W, 22% AA, 12% H.	Aggression and conduct problems – Parent report	-0.10
							Victimization at school	-0.04

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
							ADHD related behavior	+0.07
	Crean & Johnson (2013)	CR	3	1 year	14 schools	14 schools in northeastern and midwestern US; 51% W, 38% AA, 43% Federal Poverty	Acting out	+0.07
	Snyder et al. (2010)	CR	1-5	4 years	20 schools	20 schools in e Hawai'ian islands; 26% Hawaiian, 9% W, 2% AA, 25% A, at least 25% FRL	Suspension	+0.04
							Aggression and delinquent behaviors – Student report	-0.07
Positive Action	Social and Character				1.4	14 schools in an	Aggression, conduct problems, and responsibilities – Parent report	+0.10
	Character Development Research Consortium (2010)	CR	3	1 year	14 schools	urban school district in Chicago; 46% AA, 27% H, 7% W, 3% A	Aggression, conduct problems, and responsibilities – Teacher report	+0.08
							Victimization at school	-0.10
							ADHD related behavior	+0.08

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
Reaching Academic	Holloway (2004)	SR	6-8	18	78	1middle school in Northern VA; 44%	Disciplinary referrals	-0.03
Potential	110110way (2004)	SK	0-0	weeks	students	AA, 19% H, 32% W, 4% A, 66% male	Externalizing behavior	-0.19
RULER	Brackett et al. (2012)	CQE	5-6	7 months	6 schools	3 schools in Long Island, NY	Externalizing behavior	-0.07
							Physical aggression	+0.13
	Espelage, Low,				36	36 schools in IL and	Victimization from peers	+0.09
	Polanin, & Brown (2015)	CR	6-7	2 years	schools	KS.	Homophobic victimization	+0.06
							Sexual harassment victimization	+0.05
							Bullying	+0.08
Second Step	Espelage, Low,				36	36 schools in IL and	Cyberbullying perpetration	+0.10
	Van Ryzin, & Polanin (2015)	CR	6-8	3 years	schools	KS, 3651 students, 22% W, 31% B, 33% H, 11% biracial	Homophobic name-calling	+0.03
						,,,,,,,,,,	Sexual harassment perpetration	+0.02
					61	61 schools in WA and	Conduct problems	+0.04
	Low et al. (2015)	CR	K-2	K-2 1 year	schools	AZ; 50-78% FRL, 40-	Hyperactivity	+0.11*
					46% W, 6-8% AA, 15-475 H, 0-18% A	Disruptive behavior	+0.11	
		CR	6	1 year			Overt aggression	+0.17

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
	Sullivan et al. (2015)				28 classes	3 middle schools in southeastern US. 28 classrooms, 63% B, 22% W, 1% H, 11% MR, 3% O, 23% SPED	Aggression	0.00
							Overt aggression	-0.12
							Relational aggression - TR	+0.17
							Relational victimization - TR	+0.13
							Overt victimization	-0.09
							Overt victimization	-0.03
							Relational aggression – SR	+0.37
							Relational victimization - SR	+0.01
		CR	3	1 years	12 schools	12 schools in MD, 83% W, 7% B, 5% H, 8% O	Aggression and delinquent behaviors - SR	+0.04
	Social and Character Development Research Consortium (2010)						Aggression, conduct problems, and responsibilities - TR	+0.02
							Aggression, conduct problems, and responsibilities - PR	-0.03
							Victimization at school	+0.09
							ADHD related behavior	-0.07

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
				2 years	24 schools	12 schools; 53% low SES; 54% racial minority; 48% female, 2 cohorts of students	Days suspended – Cohort 1	+0.05
	Neace & Munoz (2012)	z CQE	1				Days suspended - Cohort 2	+0.01
							Suspension – Cohort 2	0.00
							Suspension – Cohort 1	+0.07
		al. CR	2-3	16-20 weeks	12 schools	12 schools in WA, 79-80% W, 5-9% AA, 6-11% A, 3-4% H	Aggression	+0.01
	Grossman et al. (1997)						Antisocial-aggressive	+0.02
							Aggression	+0.03
							Delinquent behavior	+0.03
							Delinquent behavior	+0.06
							Demanding/ disruptive behavior	0.00
							Acting out	0.00
							Hostile/irritable	+0.01
Social Aggression Prevention Program (SAPP)	Cappella & Weinstein (2006)	SR	4-6	12-14 weeks	134 students	6 schools in Northern CA	Physical/verbal aggression – Teacher report	-0.08
							Physical/verbal aggression – Parent report	-0.02
							Social aggression – Parent report	0.00

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
							Social aggression – Teacher report	-0.08
Social Skills						11 public elementary	Fighting	+0.10
Group Intervention (SSGRIN)	DeRosier (2004)	SR	3	12 weeks	381 students	schools in Wake County Public School System. 73%W, 20% AA	Bullying victimization	+0.01
							Indirect aggression	-0.01
							Observed aggression	+0.09
							Aggression – Student report	+0.05
						6 schools from 2	Intention for upstanding	+0.10
	Emary at al. (2005)	CD	2.6	2 ***	6	suburban districts in	Bullying	+0.20
	Frey et al. (2005)	CR	3-6	2 years	schools	the Pacific Northwest	Bystanding	+0.03
Steps to						US	Victimization	+0.13
Respect							Victimization	+0.06
							Acceptance of bullying/aggression	+0.11
							Argumentative attitude	+0.18
					6	6 schools from 2 suburban districts in	Gossip perpetration	+0.16
	Low et al. (2010)	CR	3-6	1 year	schools	the Pacific Northwest US	Gossip victimization	+0.11

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
							Intervene in bullying	+0.14
					Nonphysical bullying		Nonphysical bullying	0.00
							Attitudes toward intervening in bullying	-0.01
							Physical bullying	+0.07
	D 1						Bullying	-0.03
	Brown et al. (2011)	CR	3-5	1 year	33 schools	33 schools in north- central CA	Bullying problems in school	-0.10
	(2011)					Teacher/staff bullying prevention	+0.14	
					Teacher/staff intervention in bullying	+0.12		
							Bullying victimization	-0.07
							Bystanding	+0.09
Strong Kids (culturally adapted)	Graves et al. (2017)	SR	K-2	4 months	61 students	A predominately African American elementary school in an urban city in the Mid-Atlantic region of the US. 100% AA, 100% FRL	Externalizing behavior	+0.28

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
Student Success Skills	Mariani (2011)	CQE	5	6 months	5 schools	5 public elementary schools in central FL; 2% A, 15% AA, 66% W, 13% H, 28% FRL	Bullying	+0.30
Take the Lead	Domino (2013)	CR	7	1 semester	32 classes	One suburban public middle school in southwestern CT; 93% W, 1% AA, 2% H, 3% A	Bullying	+0.51*
Tools of the Mind	Blair et al. (2018)	CR	K	1 year	29 schools	29 schools in 12 districts; 73% W, 2%	Aggression and conduct problems	+0.19*
Miliu						AA, 7% H, 4% A	Behavioral problems	+0.19*
	Jenson &				28	28 urban schools in	Bullying	+0.09
Youth Matters	Dieterich (2007)	CR	4-5	2 years	schools	CO; 60 % H, 15% AA, 9% W.	Bullying victimization	+0.27

Note. CR=Cluster randomized, SR=Student randomized, CQE=Cluster quasi-experimental, SQE=Student quasi-experimental, A=Asian American, AA=African American, H=Hispanic, W=White, not Hispanic, O=Other, EL=English learner, FRL=Free and reduced lunch, SPED=Special Education.

Table 8. Study Details: Social Relationships

Sample	Cite	Design	Grade	Duration	N		Outcome	Effect Size
	-	-	-		18	18 schools in NYC;	Prosocial fantasies	+0.02
	Jones et al. (2011)	CR	3	1 year	school s	46% H, 41% AA, 4% W, 9% Other, 62% FRL	Social competence	+0.03
							Altruism – Parent report	0.00
4Rs s	Social and						Altruism – Teacher report	-0.17
	Character Development	CR	3	1 year	14 school	14 schools in NYC 46% H, 41% AA, 5%	Altruism – Student report	-0.13
	Research	CIC	3	1 year	S	W	Empathy	-0.07
	Consortium (2010)						Negative School Orientation	+0.06
							Positive school orientation	+0.08
							Self-efficacy for peer interaction	-0.13
Academic and							Empathy	+0.02
Behavioral Competencies Program	Social and Character Development	CR	3	1 year	12 schools	12 schools in 3 districts in upstate NY. 33% W, 41%	Altruism – Parent report	+0.15
	Research					AA, 17% H.	Altruism – Teacher report	+0.39

Sample	Cite	Design	Grade	Duration	N		Outcome	Effect Size
	Consortium (2010)						Altruism – Student report	-0.07
							Negative school orientation	-0.16
							Positive school orientation	-0.17
							Self-efficacy for peer interaction	+0.06
						11 high schools in ME, CA, KY, MN,	Sense of belonging to classroom	+0.04
BARR	Bos et al. (2019)	SR	9	1 year	2690 students	TX serving urban, suburban, and rural areas; 55% H, 25%W,	Supportive student- teacher relationships	+0.29*
						8% AA, 32% ELL, 77% FRL	Classmates' social emotional capacities	+0.02
BBBS	Herrera et al (2011)	SR	4-9	2 years	1139 students	71 schools, 10 BBBS agencies, 1140 students; 37% W, 23% H, 18% AA, 6% Native American, 13% multiracial, 1% A, 3% Other	Presence of a special adult who they can spend time with	+0.18*
<i>BBB</i> ₀							Sense of emotional support from peers	+0.08
	Herrera et al	SR	4-9	15	1140	71 schools, 1139 students, 69% FRL,	Social acceptance	+0.06
	(2007)	SIX	1 -7	months	students	63% ethnic minority	Teacher-student relationship – Teacher report	+0.04

Sample	Cite	Design	Grade	Duration	N		Outcome	Effect Size
							Teacher-student relationship – Student report	0.00
							Relationship with parent	+0.05
							Prosocial behavior	+0.06
							Connectedness to school	+0.02
							Positive classroom affect	0.00
							Assertiveness	-0.02
Becoming a Man	Heller et al (2013)	SR	7-10	1 year	1074 students	18 Chicago Public Schools in some of the city's most disadvantaged and dangerous neighborhoods; 70% AA, 30% H	Emotional health	+0.07
Check, Connect, and Expect	Cheney et al. (2009)	CR	1-5	2 years	18 schools	Students at risk of emotional or behavior disorders in 3 school districts in western Washington 53% FRL	Social skills	+0.05

Sample	Cite	Design	Grade	Duration	N		Outcome	Effect Size
							Empathy	+0.17
							Altruism – Student report	-0.11
G	Social and					10 1 1 6 2	Altruism – Teacher report	+0.04
Competence Support Program	Character Development Research	CR	3	1 year	10 schools	10 schools from 2 districts in 2 counties in North CA; 47% W,	Altruism – Parent report	+0.04
(CSP)	Consortium (2010)					35% B, 10% H	Positive school orientation	+0.15
							Negative School Orientation	+0.11
_							Self-efficacy for peer interaction	+0.12
							Problems in social relations	+0.07
						17 1	School bonding	+0.13
Coping Power	Lochman & Wells (2002)	SR	5-6	16 months	124 students	17 elementary schools in a small-sized city in the southeastern	Social competence in peer relations	+0.23
	(2002)			months	students	US	Social skills improvement	+0.40*
							Problem solving skills improvement	+0.30*
Coping with	Lochman & Wells	CR	5-6	16	60 classes	17 elementary schools	Problems in social relations	-0.45*
the Middle	(2002)		<i>J</i> -0	months		in a small-sized city	School bonding	+0.12

Sample	Cite	Design	Grade	Duration	N		Outcome	Effect Size
School Transitions						in the southeastern US	Social skills improvement	-0.07
							Problem solving skills improvement	-0.12
							Social competence in peer relations	-0.08
							Empathy	+0.26
							Peer relations	+0.37
							Communication skills	+0.17
						19 culturally diverse	Responsibility	+0.24
CW FIT	Caldarella et al.	CR	W.C	4 41	160	schools from MO,	social skills total	+0.28
CW-FIT	(2018)	CR	K-6	4 months	classes	TN, UT; 43% W,	Cooperation	+0.46
						15% H, 39% AA	Social competence	+0.44
							Engagement	+0.21
							Assertiveness	+0.16
							Self-management/compliance	+0.32
0	Schultz et al. (2001)	CQE	8	12 weeks	9 teachers	public schools in northeastern US	Moral reasoning (percentage of principled moral reasoning)	-0.10
	•	_					Civic attitudes and participation	+0.15

Sample	Cite	Design	Grade	Duration	N	•	Outcome	Effect Size
							Moral reasoning (composite moral reasoning score)	-0.05
							Students' practice for open climate	+0.09
							Teachers' practice for open climate	+0.17*
							Political tolerance	+0.18*
	Barr et al. (2015)					62 schools in Chicago, Cleveland,	Justice oriented citizenship	+0.15
				1 year	62 schools	Denver, LA, Memphis/Nashville, New England, NY/NJ, and San Francisco	Racism/Tolerance	+0.02
		CR	9-10				Civic Discourse	+0.17
	Buil et al. (2013)	CIC	7 10				Relationship maturity (response rating)	-0.05
						36% H, 32% W, 13% AA, 13% A	Relationship maturity (best response)	-0.04
							Engaging with civic matters	+0.23*
							Civic Self-Efficacy	+0.20*
							Deliberation Convictions	+0.07
Fast Track (Selective)	Conduct Problems Prevention Research Group (1999)	CR	1	1 year	54 schools	54 schools in high risk neighborhood in NC, TN, WA, PA. 51% AA, 47% W, 35% low SES	Positive peer interaction	+0.21*

Sample	Cite	Design	Grade	Duration	N	-	Outcome	Effect Size
I Can Problem	Kumpfer et al.				12	12 schools from 2	School bonding	+0.44*
Solve	(2002)	CR	1	1 year	schools	Rocky Mountain school districts	Social competence	-0.04
Incredible Years - Child	Reid et al. (2007)	CR	K-1	2 years	14 schools	14 high FRL schools	Prosocial behaviors (Communication)	+0.35
+ Parent Training				•		in Seattle	Social competence	+0.03
Incredible Years -	Reid et al. (2007)	CR	K-1	2 years	14 schools	14 high FRL schools	Prosocial behaviors (Communication)	+0.17
Dinosaur Social Skills	,			,		in Seattle	Social competence	+0.3
Incredible						9 urban schools in a	Prosocial behavior	+0.13*
Years Teacher Classroom Management Program (IY TCM)	Reinke et al. (2018)	CR	K-3	1 year	104 classes	school district in the Midwestern US. 76% AA, 22% W, 61% FRL, 9% SPED	Social competence	+0.13*
DIGICIE	McCormick et al.	CD	TZ 1	1	22	22 schools from 3 urban low-income	Teacher-student closeness	-0.21
INSIGHT	(2016)	CR	K-1	1 year	schools	districts; 75% AA, 16% H, 83% FRL	Teacher-student conflict	-0.07
							Empathy	-0.02
Lavaina Dia	Social and Character				12	12 schools in 2 school districts in 2 counties in TN; 65% W, 21% AA, 8% H	Altruism – Student report	-0.15
World (LIBW)	Development Research Consortium	CR	3	1 year	schools		Altruism – Parent report	+0.31*
	(2010)	_					Altruism – Teacher report	+0.04

Sample	Cite	Design	Grade	Duration	N	-	Outcome	Effect Size
							Negative School Orientation	+0.17
							Positive school orientation	+0.05
							Self-efficacy for peer interaction	-0.01
Olweus Bauer et al. (2007)	Bauer et al.	COE	6 9	1 11000	10	10 schools in Seattle;	Teachers' readiness to intervene bullying	+0.01
	(2007)	COH $6-8$ Lyear schools 35% W 24% Δ L		Students' readiness to intervene in bullying	+0.11			
							Empathy	+0.10
							Altruism – Parent report	+0.03
	Social and					10 schools from 1	Altruism – Student report	+0.15
PATHS	Character Development Research	CR	3	1 year	10 schools	district in MN and 2 districts in NY;	Altruism – Teacher report	+0.02
	Consortium (2010)					56% W, 22% AA, 12% H.	Negative School Orientation	+0.08
	` '						Positive school orientation	-0.03
							Self-efficacy for peer interaction	+0.01
Docitivo	Social and				14	14 1 1 1	Empathy	+0.21
Positive Action	Character Development	CR	3	1 year	schools	14 schools in an urban school district	Altruism – Parent report	+0.01

Sample	Cite	Design	Grade	Duration	N	-	Outcome	Effect Size
	Research Consortium					in Chicago. 46% AA, 27% H, 7% W, 3% A	Altruism – Student report	-0.09
	(2010)						Altruism – Teacher report	+0.27
							Negative School Orientation	+0.02
							Positive school orientation	+0.11
							Self-efficacy for peer interaction	-0.24
						61 schools in	Empathy	+0.12
	I4 -1 (2015)	CD	и о	1	61	Washington and AZ;	Peer problems	+0.07
	Low et al. (2015)	CR	K-2	1 year	schools	50-78% FRL, 40-46% W, 6-8% AA, 15-475	Prosocial behavior	+0.02
						H, 0-18% A	Problem solving	+0.11
							Empathy	+0.04
a 1.a							Altruism – Parent report	-0.03
Second Step	Social and Character				12	12 schools in MD;	Altruism – Student report	-0.09
	Development Research Consortium	CR 3	1 year	schools	83% W, 7% B, 5% H, 8% O	Altruism – Teacher report	-0.08	
	(2010)					Negative School Orientation	+0.06	
							Student afraid at school	+0.08

Sample	Cite	Design	Grade	Duration	N		Outcome	Effect Size
							Positive school orientation	+0.09
							Self-efficacy for peer interaction	+0.09
							Interpersonal skills	0.00
	Grossman et al.			16-20	12	12 schools in WA; 79-80% W, 5-9%	Peer social skills	+0.05
	(1997)	CR	2-3	weeks	schools	AA, 6-11% A, 3-4%	Assertiveness	0.00
						Н	Self-management skills among peers	0.00
Social	Cappella & Weinstein (2006)	SR	4-6	12-14 weeks	134 students	6 schools in Northern CA	Empathy – Teacher report	+0.01
Aggression Prevention Program							Prosocial behaviors – Parent report	+0.07
(SAPP)							Prosocial behaviors – Teacher report	+0.16
Social Skills	DeRosier (2004)	SR	3	12 weeks	381 students	11 public elementary schools in Wake County Public School System; 73%W, 20%	Liked the least by peers	+0.13
Group Intervention (SSGRIN)							Liked the most by peers	+0.23*
(BBGKH1)						AA	Outcome expectancy	+0.04
Steps to	Frey et al. (2005)	CR	3-6	2 years	6 schools	6 schools from 2 suburban districts in the Pacific Northwest US	In-school adults' responsiveness to bullying	+0.13
Respect	y 34. (- 000)						Peer interaction skill	0.00
		_					Agreeable attitude	+0.11

Sample	Cite	Design	Grade	Duration	N	-	Outcome	Effect Size
							Difficulty of assertion	+0.10
							Peer social support	+0.07
					33 schools	33 schools in north- central CA	School connectedness	+0.04
	Brown et al. (2011)	CR 3-5 1 year schools 33 schools in north-central CA students	3-5	1 year			Climate among students	+0.16
			Teacher/staff-student climate	-0.05				
							Social competence	+0.10
	Mariani (2011)	CQE		6 months	5 schools	5 public elementary schools in central FL; 2% A, 15% AA, 66% W, 13% H, 28% FRL	Prosocial behavior	+0.36
							Competitive classroom climate	+0.02
			5				Satisfying classroom climate	+0.36
Student Success Skills							Cohesive classroom climate	-0.02
Buccess Brills	Lemberger et al. (2015)	CR		1 year	11 classes	11 classrooms in rural suburban middle school in southwestern US. 66% H, 38% W, 8% O	Social support from close friends	+0.14
			7				Social support from people in school	+0.22
							Social support from teachers	+0.05

Sample	Cite	Design	Grade	Duration	N	-	Outcome	Effect Size
Take the Lead	Domino (2011)	CR	7	1 semester	32 classes	One suburban public middle school in southwestern CT; 93% W, 1% AA, 2% H, 3% A	Prosocial behavior	+0.88*
Tools of the Mind	Blair et al. (2018)	ıl. (2018) CR K	1 year	29 schools		Teacher-student relationship	+0.15*	
						AA, 7% H, 4% A	Self-regulation	+0.18*

Note. CR=Cluster randomized, SR=Student randomized, CQE=Cluster quasi-experimental, SQE=Student quasi-experimental, A=Asian American, AA=African American, H=Hispanic, W=White, not Hispanic, O=Other, EL=English learner, FRL=Free and reduced lunch, SPED=Special Education.

Table 9. Study Details: Emotional Wellbeing

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
4Rs	Jones et al. (2011)	CR	3	1 year	18 schools	18 schools in NYC 46% H, 41% AA, 4% W, 9% Other, 62% below federal poverty level	Depressive symptoms	+0.23
BBBS	Herrera et al (2007)	SR	4-9	2 years	1139 students	71 schools, 10 BBBS agencies, 1140 students; 37% W, 23% H, 18% AA, 6% Native American, 13% multiracial, 1% A, 3% Other	Self-worth	+0.03
Check, Connect, and Expect	Cheney et al. (2009)	CR	1-5	2 years	18 schools	Students at risk of developing further emotional or behavior disorders in three school districts in western Washington 53% FRL	Internalizing behavior	+0.51*
Coping Power	Lochman & Wells (2002)	SR	5-6	16 months	213 students	17 elementary schools in a small-sized city in the southeastern US	Fear	+0.09
Coping with the Middle School Transitions	Lochman & Wells (2002)	CR	5-6	16 months	60 Classes	17 elementary schools in a small-sized city in the southeastern US	Fear	-0.48*

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
CW EIT	Caldarella et al.	CR	V. C	4	160	19 culturally diverse schools from MO,	Self-control	+0.11
CW-FIT	(2018)	CK	K-6	months	classes	TN, UT; 43% W, 15% H, 39% AA	Internalizing behavior	+0.01
I Can Problem Solve	Kumpfer et al. (2002)	CR	1	1 year	12 schools	12 schools from 2 Rocky Mountain school districts	Self-regulation	+0.17
Incredible Years - Child	D 11 (1 (2007)	CD	TZ 1	2	14 high FRL schools	Emotional regulation	+0.57*	
+ Parent Training	Reid et al. (2007)	CR	K-1	2 years	schools	in Seattle Int	Internalizing behavior	+0.15
Incredible Years -				2 years	14 schools	14 high FRL schools in Seattle	Emotional regulation	+0.14
Dinosaur Social Skills	Reid et al. (2007)	CR	K-1				Internalizing behavior	+0.12
Incredible Years Teacher Classroom Management Program (IY TCM)	Reinke et al. (2018)	CR	K-3	1 year	104 classes	9 urban schools in a school district in the Midwestern US. 76% AA, 22% W, 61% FRL, 9% SPED	Emotional regulation	+0.14*
Penn	Gillham et al.	SR	Middl e school	12 weeks	290 students	290 students from 3 suburban middle schools, 77% W, middle class	Depressive symptoms - School A&B	+0.19
Resiliency Program	(2007)				students		Depressive symptoms - School C	-0.16
	Gillham et al. (2012)	SR	6-8	1 year	349 students	5 middle schools in two school districts in	Causal attributions for negative events	+0.13

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
						suburban	Coping skills	+0.11
						metropolitan area in northeastern US; 77% W, 12% B, 4% O, 4%	Depressive symptoms Hopelessness	0.00
						A, 3% H		+0.09
							Depressive symptoms	+0.08
							Anxiety symptoms	+0.03
	Holloway (2004)	SR	6-8	18 weeks	79 students	1middle school in Northern VA; 44% AA, 19% H, 32% W, 4% A, 66% male	Internalizing behavior	+0.03
Reaching							Affect self-concept	+0.47
Academic Potential							Family self-concept	+0.31
1 Otentiai							Social self-concept	+0.41
							Physical self-concept	+0.62
RULER	Brackett et al. (2012)	CQE	5-6	7 months	6 schools	3 schools in Long Island, NY	Internalizing behavior	+0.06
	Low et al. (2015)	et al. (2015) CR	K-2	1 year	61 schools	61 schools in Washington and AZ; 50-78% FRL, 40-46% W, 6-8% AA, 15-475 H, 0-18% A	Emotional management	+0.13
Coopered Store							Emotional problems	+0.10*
Second Step	Sullivan et al. (2015)	CR	6	1 year	28 classes	3 middle schools in southeastern US. 28 classes, 63% B, 22% W, 1% H, 11% MR, 3% O, 23% SPED	Emotional regulation	+0.04

Program	Cite	Design	Grade	Duration	N	Sample	Outcome	Effect Size
Social Skills						11 public elementary schools in Wake	Depressive symptoms	+0.01
Group Intervention	DeRosier (2004)	SR	3	12 381 weeks studen		County Public School	Social anxiety	+0.21*
(SSGRIN)					students		Self-efficacy	+0.21*
							Self-esteem	+0.21*
Tools of the Mind	Blair et al. (2018)	CR	K	1 year	29 schools	29 schools in 12 districts; 73% W, 2% AA, 7% H, 4% A	Emotional regulation	+0.16*

Note. CR=Cluster randomized, SR=Student randomized, CQE=Cluster quasi-experimental, SQE=Student quasi-experimental, A=Asian American, AA=African American, H=Hispanic, W=White, not Hispanic, O=Other, EL=English learner, FRL=Free and reduced lunch, SPED=Special Education.