

Nice Thinking! An Educational Intervention That Teaches Children to Think Gratefully

Jeffrey J. Froh
Hofstra University

Giacomo Bono
California State University, Dominguez Hills

Jinyan Fan
Auburn University

Robert A. Emmons
University of California, Davis

Katherine Henderson, Cheray Harris, and Heather Leggio
Hofstra University

Alex M. Wood
University of Stirling

Abstract. Gratitude is essential to social life and well-being. Although research with youth populations has gained momentum recently, only two gratitude interventions have been conducted in youth, targeting mostly adolescents. In the current research, we tested a new intervention for promoting gratitude among the youngest children targeted to date. Elementary school classrooms (of 8- to 11-year-olds) were randomly assigned either to an intervention that educated children about the appraisal of benefit exchanges or to a control condition. We found that children's awareness of the social-cognitive appraisals of beneficial social exchanges (i.e., grateful thinking) can be strengthened and that this, in turn, makes children more grateful and benefits their well-being in terms of increased general positive affect. A daily intervention produced evidence that this new approach induced gratitude immediately (2 days later) and led children to express gratitude more behaviorally (i.e., they wrote 80% more thank-you cards to their Parent-Teacher Association). A weekly intervention induced gratitude up to 5 months later and additionally showed an effect on well-being (i.e., positive affect). Evidence thus supported the effectiveness of this intervention. Results are discussed in terms of implications for positive youth development and academic functioning.

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Correspondence regarding this article should be addressed to Jeffrey J. Froh, Department of Psychology, Hofstra University, 210 Hauser Hall, Hempstead, NY 11549; e-mail: Jeffrey.Froh@hofstra.edu.

Offering and receiving help are fundamental to healthy development and thriving. The fact that children become involved in beneficial social exchanges even before they are able to understand or fully appreciate them underscores the importance of altruism and cooperation for social development. Traditionally, gratitude has been considered a central emotion for altruism and cooperation in human society (Smith, 1790/1976) because it enables people to notice, understand, and capitalize off of beneficial exchanges with others (McCullough, Kimeldorf, & Cohen, 2008). Indeed, individual differences in experiencing gratitude are uniquely related to well-being (Wood, Joseph, & Maltby, 2009), the development of positive relationships (Algoe, Haidt, & Gable, 2008; Froh, Bono, & Emmons, 2010), greater appreciation of social resources (McCullough, Emmons, & Tsang, 2002), and more use of social support coping (Wood, Joseph, & Linley, 2007). Thus, gratitude is essential to relationships, social life, and well-being (Wood, Froh, & Geraghty, 2010), and promoting it in youth may support social development.

The main questions addressed by this study are as follows: Can children be taught to think gratefully? If so, does sensitizing children to the nuances of beneficial social exchanges help instill feelings of gratitude in them? If children can be taught to experience gratitude early on, as soon as it is possible developmentally, then this may promote positive social development and help bring about many successful outcomes throughout their lives. This study examines whether a new gratitude intervention that targets appraisals of beneficial social exchanges is an efficacious way to increase gratitude and well-being in children around the time of middle childhood, when gratitude is thought to solidify (Emmons & Shelton, 2002; Graham, 1988).

Theoretical Framework

Research suggests that specific cognitions cause gratitude, and we targeted these in this study. People feel grateful when they acknowledge receiving an intentional act of kindness from a benefactor (Buck, 2004;

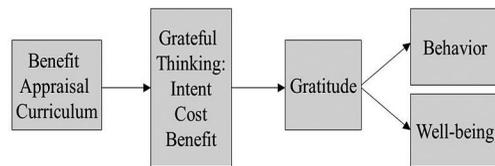


Figure 1. Theoretical framework for gratitude intervention and effects.

Heider, 1958; Weiner, Russell, & Lerman, 1979). Specifically, they experience gratitude in response to benefits that (a) they perceive as valuable to them, (b) were provided intentionally and altruistically (rather than for ulterior motives), and (c) were costly to the benefactor (Tesser, Gatewood, & Driver, 1968; Wood, Maltby, Stewart, Linley & Joseph, 2008). Finding that individual differences in these three dimensions could explain why people higher in trait gratitude experience grateful affect in response to receiving prosocial acts, Wood et al. (2008) suggested that changing one's cognitions may help increase the frequency and intensity with which people experience gratitude and its concomitant social and well-being benefits. This notion is consistent with the cognitive therapy approach of changing automatic thoughts to increase desirable therapeutic outcomes and well-being (Beck, 1976). Thus, we hypothesize that strengthening these cognitions will lead to increases in gratitude, as well as theoretically expected changes in behavior (i.e., thanking or reciprocation of prosocial behavior) and emotional well-being (see Figure 1). We provide the first test of an intervention using this approach, in children aged 8–11 years.

Psychology of Gratitude in Youth

Increasing gratitude during middle childhood may be especially advantageous because this is when children make rapid advances in having mutually beneficial interactions with others and in forming supportive social relationships (Wentzel, Barry, & Caldwell, 2004). Gratitude is important in social life because it supports exchange-based relationships but also communal relationships,

strengthening ties to responsive interaction partners (Algoe, 2012).

Except for isolated studies that preceded current knowledge (e.g., Baumgarten-Tramer, 1938), research on youth gratitude is in its infancy. However, evidence so far shows that many of the social and psychological benefits found with adults also occur with youth (for a review, see Bono, Froh, & Forreth, in press). For instance, adolescents aged 11–13 years who were more grateful also reported giving more emotional support and experiencing more positive affect, social support from peers and family, optimism, and satisfaction across many life domains (school, family, friends, community, and self) compared with less grateful adolescents (Froh, Yurkewicz, & Kashdan, 2009). Moreover, adolescents aged 14–19 years who were more grateful reported not only greater life satisfaction, academic achievement, absorption in activities, and social integration (or using one's strengths to help others and society) but also less envy, depression, and materialism (Froh, Emmons, Card, Bono, & Wilson, 2011). Many of these associations are supported longitudinally as well, showing links to improved psychological and social functioning 6 months (Froh et al., 2010) and 4 years (Bono, Froh, & Emmons, 2012) later.

Life satisfaction, well-being, and strong social ties are critical for youths' adjustment, bonding to school, and achievement (Huebner, Suldo, & Gilman, 2006). Thus, teaching children how to be more grateful supports the primary goals of school psychologists, teachers, and other professionals who work with youth.

Interventions to Increase Gratitude in Youth

Only two interventions have been conducted with youth. In one study, children (aged 8–19 years) from a parochial school were randomly assigned to a control condition or a gratitude-visit condition (Froh, Kashdan, Ozimkowski, & Miller, 2009). That is, they wrote about mundane daily experiences or they wrote and then read a thank-you letter to a person they needed to thank. Findings indi-

cated that youth in the gratitude condition who were also low in positive affect reported more gratitude and positive affect at posttreatment and more positive affect at the 2-month follow-up compared with youth in the control condition.

In another intervention study, Froh, Seffick, and Emmons (2008) randomly assigned 11 classrooms of sixth- and seventh-graders (aged 11–14 years) to one of three conditions: gratitude, hassles, or a control (similar to the previously mentioned intervention). Students in the gratitude condition listed five things for which they were grateful, and those in the hassles condition listed five things that irritated them. The intervention ran daily for 2 weeks, and data were collected immediately at posttest and again 3 weeks later. The results showed that listing blessings led to more optimism, higher life satisfaction, and less negative affect, compared with listing hassles. Moreover, students who reported feeling grateful for having received aid in school reported more positive affect at posttest, a pattern that was stronger 3 weeks later. Gratitude for aid received mediated the relationship between the intervention and general gratitude. Finally, students who listed blessings reported more school satisfaction at posttest and at the 3-week follow-up compared with students in the hassles or control group.

This last finding is significant because dissatisfaction with school is a problem for many middle and high school students (Huebner, Valois, Paxton, & Drane, 2005), and school satisfaction is related to academic and social success (Verkuyten & Thijs, 2002). Therefore, it appears that acknowledging benefits, like receiving help from others, is an effective way to promote gratitude in adolescents. Gratitude, in turn, may help counter negative appraisals of the academic experience (i.e., school satisfaction) and perhaps thereby improve students' school bonding and social adjustment.

Gratitude interventions for youth that operate through directly changing cognitions about the social exchange of benefits may be more effective than simply listing blessings because they impart social skills that can be

immediately applied to social life. This may be especially helpful with younger children, whose cognitive abilities and social skills are still maturing.

Study 1: Intervention Using a Daily Benefit-Appraisal Curriculum

In the first study we piloted structured lesson plans intended to educate students about the social-cognitive appraisals involved in circumstances of receiving benefits from others. The intervention was delivered daily for 1 week. The benefit-appraisal curriculum was compared with an attention-control curriculum in which students focused on mundane social activities that were emotionally neutral. A quasi-experimental design was used whereby classrooms were randomly assigned to one condition or the other. The treatment and control conditions were kept comparable in terms of the tasks and structure of the information sessions and quantity and quality of attention from interventionists; they differed only in terms of the content of the information sessions.

Dependent measures of benefit appraisals and gratitude were collected 2 days before the intervention and 2 days after the intervention concluded. A behavioral measure of gratitude (i.e., writing thank-you cards) was also obtained at posttest. We hypothesized that the intervention would increase students' benefit appraisals, levels of gratitude, and thanking behavior.

Method in Study 1

Participants

This convenience sample included 122 elementary school students (mean age = 9.03 years, $SD = 0.33$ years, range = 8–10 years) in six classes. Cohen (1992) suggests that with α set at .05 and assuming a medium effect size, we would need 64 students in each condition ($N = 128$). Students were in fourth grade within an affluent district (district median household income for a four-person family = \$115,440, state median household income for a four-person family = \$83,036).

Most were White (68%) and about half were boys (48.4%). Per the New York State Report Card website for the year we collected data, 94% of fourth-grade students (the same grade as those who participated in our study) demonstrated an *understanding* or a *thorough understanding* of the content for the English language arts state examination that is expected for the subject and grade level (<https://reportcards.nysed.gov/>).

Curricula Administration

The curricula were implemented by three school psychology graduate students (interns) who were interested in gaining additional applied experience working with children in schools. The fifth author (K.H.) trained the interns in both curricula by reviewing all curricula material with them until all questions were answered. K.H. was available daily to meet with the interns during the intervention phase to answer any questions. The interns and teachers were kept blind to the study's purpose by being told that the study's purpose was to test the effectiveness of a social-emotional curriculum (*gratitude* was never mentioned during the training, conversations with teachers, or intervention). By use of stratified random assignment, each intern was randomly assigned to one classroom in the benefit-appraisal condition and one classroom in the attention-control condition. A coin toss was used to decide which intern went with which classroom.

The numbers of students assigned to the treatment condition ($n = 62$) and control condition ($n = 60$) were comparable, as was instruction time (i.e., 30 min daily for one week, Monday–Friday). Participants received raffle tickets for doing the homework activities, and after the intervention, one child from each classroom won a \$10 gift certificate.

Treatment condition. Students in the treatment condition received instruction on the social-cognitive perceptions that elicit gratitude (i.e., benefit appraisals). Structured lesson plans adhered to the following outline: the introduction (Session 1); understanding a benefactor's intention behind helping a bene-

fiary (Session 2); understanding the cost experienced by benefactors when giving a benefit (Session 3); understanding the benefits of receiving a gift bestowed by a benefactor (Session 4); and the review/summary, which incorporated all components of the previous sessions (Session 5). The lessons included classroom discussions, writing assignments, and role-playing activities.

Attention-control condition. Students in the attention-control condition also received similarly structured lesson plans. However, the content of the lessons focused on emotionally neutral topics, such as daily student activities. See the Appendix for a comparison of these two curricula.

Measures

Benefit-appraisal vignettes (i.e., grateful thinking). Three vignettes were created to measure the social-cognitive perceptions underlying gratitude (i.e., intent, cost, and benefit; Tesser et al., 1968; Wood et al., 2008). The vignettes depicted three different helping situations in which students imagined themselves as the main character in the stories. After each story, students were asked to respond to four questions. Questions for each vignette were tailored to the respective benefactor (i.e., sister, friend, and parent) and situation (i.e., help studying, lending cleats to play soccer, and sharing a computer); all three appraisal dimensions were assessed in each vignette. Using *sister* as an example, the questions were as follows: “How much did your sister help you on purpose?” (intent; response options ranged from 1, *not at all on purpose*, to 5, *totally on purpose*); “How much did your sister give up to help you?” (cost; response options ranged from 1, *gave up nothing*, to 5, *gave up a great deal*); and “How much did your sister quizzing you help you?” (benefit; response options ranged from 1, *not at all helpful*, to 5, *a great deal of help*). The last question for each vignette asked how thankful students would feel toward the benefactor (gratitude; response options ranged from 1, *very slightly or not at all*, to 5, *extremely*). When analyzed, this fourth item was exam-

ined separately for purposes of examining construct validity.

Following the procedure of Wood et al. (2008), we summed the three items intending to measure the social-cognitive determinants of gratitude across the three vignettes to create a benefit-appraisal composite composed of nine items that reflects the total score on intent, cost, and benefit. Confirmatory factor analyses (CFAs) were conducted to examine the construct validity of this measure. At both preintervention and postintervention points, CFAs yielded perfect model fits, which was not surprising because these models were saturated. More importantly, factor loadings were large and significant. At preintervention, standardized factor loadings ranged between 0.55 and 0.72; at postintervention, standardized factor loadings ranged between 0.60 and 0.84. In this sample, α for the nine-item benefit-appraisal composite was 0.80 (pretest) and 0.83 (posttest).

Initial pilot testing affirmed the psychometric properties of the benefit-appraisal composite. Specifically, 39 students (mean age = 10.38 years, $SD = 0.91$ years, range = 9–12 years) completed the vignettes, as well as the Gratitude Adjective Checklist (GAC) (McCullough et al., 2002). The nine-item benefit appraisal showed good internal consistency ($\alpha = 0.86$). Support for construct validity was provided by strong correlations with (a) a mean score on the three gratitude items from the vignettes (i.e., “How thankful would you feel?”), $r = 0.74$, $p < .001$, and (b) GAC scores, $r = 0.47$, $p = .004$. These findings indicate that the benefit-appraisal composite is related to grateful thinking toward a benefactor and overall gratitude.

Grateful mood. The GAC (McCullough et al., 2002) asks people to rate how grateful, thankful, and appreciative they are on a scale from 1 (*very slightly or not at all*) to 5 (*extremely*). To measure gratitude as a mood, participants rated the amount they experienced each of these three emotions “during the past few weeks” (cf. Froh, Yurkewicz, & Kashdan, 2009). In the current sample, the GAC showed sufficient internal consistency ($\alpha = 0.70$ at

pretest and $\alpha = 0.74$ at posttest), with levels comparable with the level of the pilot sample of 9- to 12-year-olds ($\alpha = 0.77$). The GAC has been used to assess gratitude as a trait, mood, or emotion, depending on the timeframe in the directions (Froh, Miller, & Snyder, 2007). It shows good internal consistency ($\alpha = 0.78$ – 0.88 ; Froh et al., 2008) and construct validity with adolescent samples, yielding low to moderate positive correlations with optimism ($r = 0.35$), contentment ($r = 0.21$), and life satisfaction ($r = 0.37$) and stronger correlations with positive affect ($r = 0.63$; Froh, Yurkewicz, & Kashdan, 2009). Although other dispositional measures of gratitude exist for older populations (e.g., Gratitude Questionnaire-6; McCullough et al., 2002), the GAC was used for this study because when it was being conducted, this was the only validated gratitude scale for children (see Froh et al., 2007, for a review). The GAC and Gratitude Questionnaire-6 have since been found to be correlated at 0.58 for 10- to 11-year-olds (Froh, Fan, Emmons, Bono, Huebner, & Watkins, 2011).

Behavioral measure of gratitude. On the Monday after the intervention phase, the Parent–Teacher Association (PTA) provided a multimedia presentation to the entire student body in the afternoon (thus, both conditions were exposed to the presentation at the same time). The teachers involved in this study gave students the opportunity to make a thank-you card for the PTA by giving the following instructions in their classrooms after the presentation:

The presentation you just saw was given by our Parent–Teacher Association. We have about 5 minutes of free time. You can use this time to write a thank-you card to the PTA using the paper provided or you can just hang out. Some people like to say “thanks” by writing something or drawing a picture. So if you choose to write a thank-you card, feel free to either write a letter or draw a picture and print your first and last name at the bottom so they know who the card is coming from. I’ll then pass them on to the PTA.

Thus, the chance to write thank-you notes was presented as independent from the

curricula and completely voluntary. After the activity, teachers collected thank-you cards and identified the participating students on the class roster. Teachers then gave the cards to the school psychologist to mail to the PTA. Participants only completed this task at posttest because of potential reactivity effects (Shadish, Cook, & Campbell, 2002). Students who wrote thank-you cards reported a more grateful mood ($M = 12.10$) at posttest than students who did not ($M = 11.16$), $t = 1.65$, $p = .05$, $d = 0.32$, indicating construct validity for this behavioral measure.

Procedure

After we received approval from the first author’s institutional review board, as well as the school district’s superintendent and administration, parental consent forms were mailed to students’ homes and children returned them to their teachers. Children completed assent forms in their classroom. The participation rate was 88%, and students who did not participate in the study read at their desks while the curricula were administered.

Data were collected in the students’ classrooms. Pretest data were collected the Friday before the week of the intervention phase. Posttest data were collected the Monday after the intervention phase (in the morning), so the affect ratings covered the intervention week.

To determine treatment integrity, the interns who implemented the curricula answered questions that targeted the goals and objectives of each lesson. For example, “Did you complete the ‘Talk About It’ activity?” was answered yes or no. The rate of successful completion of the outlined goals and objectives of each lesson for the curricula was 100%, suggesting that lessons were administered as intended.

Results of Study 1

Effectiveness of Treatment

To evaluate whether the intervention was effective in strengthening students’ benefit appraisals (i.e., grateful thinking), we first

computed means and standard deviations for each condition at pretest (treatment $M = 34.98$, $SD = 6.42$ versus control condition $M = 35.63$, $SD = 8.03$) and posttest (treatment $M = 38.53$, $SD = 5.14$ versus control condition $M = 36.75$, $SD = 8.16$). We then conducted an analysis of covariance with condition as the independent variable, benefit appraisals at posttest as the dependent variable, and pretest benefit appraisals as the covariate. We used a one-tailed test because our hypothesis was directional and theory driven. The treatment students reported significantly stronger benefit appraisals at posttest compared with the control students, $F(1, 98) = 5.88$, $p < .05$, $\eta^2 = 0.06$. Thus, the intervention impacted participants' grateful thinking.

Next, we analyzed whether the intervention had an effect on students' levels of gratitude. We computed means and standard deviations for gratitude in each condition at pretest (treatment $M = 11.04$, $SD = 3.27$ versus control condition $M = 10.65$, $SD = 3.44$) and posttest (treatment $M = 12.03$, $SD = 3.02$ versus control condition $M = 10.86$, $SD = 3.14$). We then conducted an analysis of covariance with condition as the independent variable, posttest gratitude as the dependent variable, and pretest gratitude as the covariate. We used a one-tailed test because our hypothesis was directional and theory driven. The treatment students reported significantly more gratitude at posttest than the control students, $F(1, 95) = 4.25$, $p < .05$, $\eta^2 = 0.04$.

We then conducted a two-way contingency table analysis to evaluate whether students in the treatment condition wrote more thank-you cards to be sent to the PTA compared with students in the control condition. The two variables were condition with two levels (treatment versus control) and wrote a thank-you card with two levels (yes versus no). Condition and the writing of a thank-you card were found to be significantly related, Pearson $\chi^2(1, N = 122) = 4.65$, $p < .05$, Cramér's $V = 0.20$. The percentage of students who wrote thank-you cards was 43.5% (27 of 62) for the treatment condition and 25.0% (15 of 60) for the control condition.

The differences between the conditions were due to changes within the benefit-appraisal intervention over time. The averaged benefit appraisals and grateful-mood ratings remained unchanged over time in the attention-control group.

Brief Discussion

The benefit-appraisal curriculum, carried out daily over a 1-week period, worked as intended. Students in the treatment condition reported increases in benefit appraisals and grateful mood compared with students in the attention-control condition. Practically speaking, the small effect sizes obtained at posttest on benefit appraisals and grateful mood (Cohen's $d = 0.26$ and Cohen's $d = 0.38$, respectively) indicate that about 60% of the control group fell below the treatment group average in terms of appraising the exchange of benefits and that about 65% did so in terms of grateful mood (see Coe, 2002). Furthermore, students in the treatment condition wrote 80% more thank-you cards to the PTA than students in the attention-control condition. Therefore, the changes observed as a function of the experimental manipulation extend beyond the realm of self-report and provide evidence that students who had received the training to better appreciate the prosocial intentions of others were much more likely to write thank-you notes.

The results provide evidence that children's benefit appraisals can be strengthened and that doing so can increase their gratitude. The finding that more students in the treatment condition wrote thank-you cards than students in the attention-control condition provides external validation of the findings, as well as a test of theoretical views that gratitude should lead to reciprocal kind acts (Bartlett & DeSteno, 2006). Importantly, this is the first evidence that any intervention (in children or adults) focused on increasing gratitude actually leads to behavioral changes. Differences in thanking behavior at baseline were not accounted for, however, limiting our ability to infer increases in this behavioral measure.

The following questions arose: Would the same intervention administered weekly and over a longer period give children more opportunity to apply the material to their lives and produce stronger impacts on gratitude and on subjective well-being? Would this have lasting effects several months later? In Study 2 we piloted the intervention over a period of 5 weeks and collected data at several follow-up time points to assess long-term effects in a different convenience sample, focusing more on well-being effects.

Study 2: Intervention Using a Weekly Benefit-Appraisal Curriculum

In the second study we compared the same treatment and control conditions that were used in Study 1. However, research suggests that gratitude interventions may be more effective if participants are given an opportunity to personally engage with the material (Lyubomirsky, Dickerhoof, Boehm, & Sheldon, 2011). Therefore, our intervention in Study 2 differed from that in Study 1 in terms of delivery (weekly versus every day) and duration (5 weeks long versus 1 week long). Our intention was to use a less intensive and more sustained approach to prevent rote repetition and give participants more time to personally apply the material. Otherwise, the same exact structured lesson plans and procedures were used. Thus, as before, a quasi-experimental design was used in which classrooms were randomly assigned to the treatment or control condition.

As in Study 1, we measured students' benefit appraisals and gratitude. However, in Study 2 we also included measures of positive and negative affect and overall life satisfaction. This time, dependent measures were collected over a span of 5 months rather than a span of just over a week. This delivery method and schedule were used to allow a more rigorous test of the intervention's effectiveness in producing more sustained changes in individuals' grateful thinking, grateful mood, and subjective well-being over a longer period.

Method in Study 2

Participants

The participants were 82 elementary school students (mean age = 9.50 years, $SD = 0.63$ years, range = 8–11 years) in four different classes. Cohen (1992) suggests that with α set at .05 and assuming a medium effect size, we would need 64 students in each condition. However, given some unforeseen circumstances, we were unable to include that many students. Students were in Grades 4 (46.3%) and 5 (53.7%) within an affluent district (district median household income for a four-person family = \$129,752; state median household income for a four-person family = \$83,036). Most were White (80.5%), about half were boys (54.9%), and 11.0% reported receiving free lunch. Per the New York State Report Card website for the year we collected data, 95% of fourth-grade students and 88% of fifth-grade students (the same grades as those who participated in our study) demonstrated an *understanding* or a *thorough understanding* of the content for the English language arts state examination that is expected for the subject and grade level (<https://reportcards.nysed.gov/>). These students were from a different school district than those in Study 1.

Measures

Benefit-appraisal vignettes. The nine-item benefit-appraisal composite showed good reliability (α ranged from 0.80–0.91). Regarding construct validity, CFAs at each time point again yielded perfect fits because the models tested were all saturated. Factor loadings were large and significant at each time point. Specifically, standardized factor loadings ranged from 0.60–0.70 at Time 1, from 0.60–0.90 at Time 2, from 0.60–0.85 at Time 3, from 0.60–0.88 at Time 4, and from 0.75–0.94 at Time 5. The benefit-appraisal composite was positively correlated with mean scores from the vignette gratitude items, $r = 0.53$ to $r = 0.76$ across the five time points, $p < .001$.

Grateful mood. The three emotion items of the GAC (McCullough et al., 2002) showed good internal consistency and reliability (α ranged from 0.81–0.93).

Positive and Negative Affect Scale for Children. The Positive and Negative Affect Scale for Children (PANAS-C) (Laurent et al., 1999) was used to assess positive affect and negative affect. It consists of 15 positive emotions (e.g., happy, cheerful) and 15 negative emotions (e.g., sad, frightened) rated on scales ranging from 1 (*very slightly or not at all*) to 5 (*extremely*). Internal consistency is strong for both the positive affect scale (0.90 for the scale development sample and 0.89 for the replication sample) and negative affect scale (0.94 for the scale development sample and 0.92 for the replication sample; Laurent et al., 1999). Both scales also have good convergent and discriminant validity, with negative affect being positively correlated with childhood measures of depression and anxiety ($r = 0.60$ and $r = 0.68$, respectively) and positive affect being inversely correlated with these measures ($r = -0.42$ and $r = -0.30$, respectively; Laurent et al., 1999). Participants were asked to rate the amount they experienced each feeling “during the past few weeks.” In this sample, α ranged from 0.84–0.90 for positive affect and negative affect.

Brief Multidimensional Students’ Life Satisfaction Scale. The Brief Multidimensional Students’ Life Satisfaction Scale (BMSLSS) (Seligson, Huebner, & Valois, 2003) is a five-item measure using a response scale ranging from 1 (*terrible*) to 7 (*delighted*) that assesses overall life satisfaction summed across multiple domains (family, friendships, school, self, and living environment). The scale is designed to assess general life satisfaction in children and youth (aged 8–18 years). Internal consistency has been reported to be acceptable with middle school students ($\alpha = 0.75$), and the scale has demonstrated a unidimensional factor structure that correlates significantly with the Students’ Life Satisfaction Scale ($r = 0.70$) and other measures of

well-being (Seligson, Huebner, & Valois, 2005). A sample item from the BMSLSS is as follows: “I would describe my satisfaction with my friends as _____.” The five items were combined into a life satisfaction score. In this sample, α ranged from 0.65–0.77.

Curricula Administration

The same benefit-appraisal and attention-control curricula used in Study 1 were administered to the participants in Study 2, except that they received the curricula weekly for 5 weeks. K.H. trained the two school psychology interns (different graduate students from Study 1), from the school at which the study took place, in the two curricula the same way she did for the interns in Study 1. During the intervention phase, K.H. met with the interns weekly as needed. The interns and teachers were kept blind to the study’s purpose and hypotheses and told that classrooms would be assigned to one of two curricula: emotional (i.e., benefit appraisal) or social (i.e., attention control); any mention of *gratitude* was absent from conversations. As in Study 1, we used self-report checklists to ensure that interns administered each condition as intended.

Four classrooms of students participated. Slightly more students were assigned to the benefit-appraisal curriculum ($n = 44$) than the attention-control curriculum ($n = 38$). There were almost identical numbers of students per grade in each condition (fourth grade: treatment condition, $n = 21$; attention-control condition, $n = 17$; fifth grade: treatment condition, $n = 23$; attention-control condition, $n = 21$). One intern was assigned to the fifth grade class in the benefit-appraisal condition and the fourth grade class in the attention-control condition; the other intern was assigned to the fifth grade class in the attention-control condition and the fourth grade class in the benefit-appraisal condition. A coin toss was used to decide which intern went with which classroom. Instruction time for both the benefit-appraisal and attention-control curricula was 30 minutes once a week for a total of 5 weeks. The same raffle procedure used in

Study 1 was used to encourage participation and homework completion.

Procedure

As in Study 1, permission was received from the institutional review board and school district, and procedures for consent and assent were identical. The participation rate was 84%. The fifth author (K.H.) recruited all fourth and fifth grade teachers who were interested in participating. Students who did not participate in the research read at their desks while the curricula were being administered. Data were collected in students' classrooms. Baseline data (T1) were collected right before the first lesson plan was taught. Posttest data (T2) were collected right after the fifth, and final, lesson plan was taught, at 5 weeks. Additional follow-up data were collected at 7 weeks (T3), 12 weeks (T4), and 20 weeks (T5).

As in Study 1, the two interns who implemented the curricula completed a checklist after each lesson. The results indicated that 100% of the outlined goals and objectives of each lesson were implemented as intended.

Analytic Strategy

We used one-tailed tests because all hypotheses were directional and theory driven. Because the data were nested within individuals over time, we used hierarchical linear modeling (HLM; cf. Raudenbush & Bryk, 2002) to examine the treatment effects longitudinally. Two levels of analysis were specified: (a) within person (Level 1), with the time variable as the only predictor, and (b) between persons (Level 2), with the treatment condition as the only predictor. The Level 1 model examined within-person changes over time for repeated measures, whereas the Level 2 model examined between-person differences in the change trajectories.

The HLMs were performed in two stages. The first stage involved a series of within-person models to determine the optimal description of the overall trajectories characterizing the repeated measures for the entire sample. These "unconditional" models had

time as the only predictor. A null (i.e., intercept-only) model was first fitted to the data, followed by the addition of a linear time term and then a quadratic time term, to explore whether the added terms would improve model fit. We also explored whether allowing the intercept, linear, and quadratic time terms to vary across individuals would boost model fit. The time variable was centered at T1 (baseline) and specified in weeks so that T2 was 5 weeks, T3 was 7 weeks, T4 was 12 weeks, and T5 was 20 weeks. This first stage produced optimal unconditional models for the entire sample in which the mean intercept indicated the average standing just before the intervention and the mean slope indicated average rates of change. Significant variances in the intercepts and slopes implied between-person variation in those parameters that may be explained by Level 2 predictors.

In the second stage of analysis, treatment condition was incorporated to explain these variances. These "conditional" models enabled examination of any intervention effects. The intervention effect is the difference between the treatment condition (coded as 1) and the control condition (coded as 0). A significant treatment effect on the intercept indicated that there were significant group mean differences on the dependent variable before the start of the intervention (because classes and not individuals were randomly assigned to conditions, it was necessary to examine group differences at baseline). A significant treatment effect on the slopes, or cross-level interactions between time and treatment, indicated that the two groups had different rates of change on the dependent variable.

Results of Study 2

Descriptive statistics for the variables across all five time points are displayed separately for the treatment and control conditions in Table 1. We expected that compared with the control condition, the treatment condition would show longitudinal increases in individuals' benefit appraisals (i.e., grateful thinking), grateful mood, and subjective well-being (i.e., greater positive affect and life satisfaction and

Table 1
Means and Standard Deviations of
Dependent Variables Across
Observations for Intervention and
Control Conditions in Study 2

Outcome	Attention- Control Condition <i>M (SD)</i>	Benefit- Appraisal Intervention <i>M (SD)</i>
Grateful thinking		
T1	38.86 (5.75)	38.07 (6.12)
T2	40.32 (4.57)	42.37 (2.56)
T3	40.76 (4.92)	42.79 (3.09)
T4	40.76 (4.66)	42.44 (3.29)
T5	39.63 (5.73)	42.67 (2.80)
Gratitude		
T1	12.18 (3.00)	12.30 (2.61)
T2	12.11 (3.32)	12.82 (2.48)
T3	12.00 (3.18)	12.95 (2.86)
T4	12.27 (3.34)	13.16 (2.70)
T5	11.82 (3.52)	13.23 (2.49)
Positive affect		
T1	3.64 (0.77)	3.56 (0.72)
T2	3.64 (0.73)	3.89 (0.57)
T3	3.63 (0.85)	3.69 (0.73)
T4	3.70 (0.86)	3.96 (0.69)
T5	3.55 (0.87)	3.96 (0.65)
Negative affect		
T1	1.87 (0.68)	1.68 (0.50)
T2	1.73 (0.60)	1.48 (0.44)
T3	1.60 (0.53)	1.45 (0.44)
T4	1.71 (0.60)	1.57 (0.56)
T5	1.60 (0.65)	1.51 (0.48)
Life satisfaction		
T1	28.34 (4.82)	30.73 (3.62)
T2	29.34 (3.79)	31.61 (3.62)
T3	30.11 (4.10)	31.84 (4.21)
T4	29.59 (4.80)	31.64 (4.17)
T5	30.35 (4.30)	31.47 (3.95)

Note. T1 = baseline; T2 = immediately posttest; T3 = 7-week follow-up; T4 = 12-week follow-up; T5 = 20-week follow-up. Scores for benefit appraisals could range from 9 to 45. Scores for gratitude could range from 3 to 15. Scores for positive affect and negative affect could range from 1 to 5 because the mean was calculated due to some missing data. Scores for life satisfaction could range from 7 to 35.

lower negative affect). Thus, our first step was to determine the optimal unconditional models for these variables. Table 2 shows the mean intercepts and mean linear slopes, which index the starting point and weekly change on each variable for the whole sample. A quadratic time term added little to the within-person model, making a linear model the optimal Level 1 trajectory. The intercepts and linear slopes of each variable also had significant variances, indicating that Level 2 differences could account for variability in both parameters. Having identified the optimal within-person trajectory and found that there was variability because of between-person factors, we proceeded to the conditional model analyses to examine whether the intervention had any effects on our dependent variables.

Effectiveness of Intervention

The unconditional model with benefit appraisals showed a significant mean intercept for the whole sample, at $\gamma_{00} = 39.798$, $p < .001$, and a significant mean linear slope of $\gamma_{10} = 0.114$, $p < .001$, for each week. This means that the benefit-appraisal scores increased linearly over time for the entire sample. To evaluate whether students in the intervention condition exhibited more linear growth in benefit appraisals (i.e., their grateful thinking) than students in the control condition, we examined the conditional HLM with benefit appraisals, which included a between-person covariate for experimental condition. Figure 2 shows that the two groups started out with similar levels of benefit appraisals but that only the intervention group showed linear increases over the course of 20 weeks. Each week, students in the intervention condition strengthened their benefit appraisals by 0.196 units whereas those in the control condition stayed relatively flat (see Table 3). The intervention had no significant effect on the intercept, $t(df = 80) = -0.05$, *ns*, but had a significant effect on linear slope, $t(df = 80) = 3.09$, $p = .001$, effect size $r = 0.33$. This linear slope difference led to mean differences in benefit appraisals between the control and intervention groups at 12 weeks, $t(df = 80) = 2.39$, $p = .01$, $d = 0.53$, and

Table 2
Hierarchical Linear Model Results Based on Unconditional Models in Study 2

Dependent Variable	Intercept		Linear Slope	
	γ_{00}	τ_0	γ_{10}	τ_1
Grateful thinking	39.798**	14.577**	0.114**	0.032**
Gratitude	12.368**	5.621**	0.014	0.011**
Positive affect	3.656**	0.357**	0.004	0.001**
Negative affect	1.679**	0.157**	-0.007*	0.013*
Life satisfaction	30.123**	13.771**	0.046*	0.020**

Note. γ_{00} = mean intercept; γ_{10} = mean linear slope; τ_0 = variance of intercept across individuals; τ_1 = variance of linear slope across individuals.
 * $p < .05$. ** $p < .001$

at 20 weeks, $t(df = 80) = 3.31, p = .001, d = 0.74$.

Because increases in benefit appraisal were found in the intervention condition, indicating an increase in grateful thinking, we proceeded to analyze whether the intervention also had effects on students' gratitude and subjective well-being (i.e., positive affect, negative affect, and life satisfaction).

Gratitude

The unconditional model with gratitude showed a significant mean intercept, at $\gamma_{00} = 12.378, p < .001$, and no mean linear slope, $\gamma_{10} = 0.14, ns$, for the whole sample. The conditional model showed no significant intervention effect on the intercept, $t(df = 80) = -0.05, ns$, but did show a significant intervention effect on linear slope, $t(df = 80) = 1.68, p = .05$, effect size $r = 0.18$. With each week, students in the intervention condition gained 0.072 units of gratitude whereas the control group stayed relatively static (see Table 3). This general pattern was sustained and led to significant differences in mean levels of gratitude at 12 weeks, $t(df = 80) = 1.82, p = .04, d = 0.41$, and at 20 weeks, $t(df = 80) = 2.14, p = .02, d = 0.48$ (see Figure 2).

Positive and Negative Emotion

The unconditional model with positive affect as the dependent variable showed a sig-

nificant mean intercept, at $\gamma_{00} = 3.656, p < .001$, and no mean linear slope, $\gamma_{10} = 0.004, ns$, for the whole sample. Results from the conditional analyses showed no intervention effect on the intercept, $t(df = 80) = -0.09, ns$, but did show a significant intervention effect on linear slope, $t(df = 80) = 2.72, p = .004$, effect size $r = 0.29$. Students in the intervention condition gained 0.019 units of positive affect each week, whereas the control group stayed relatively flat (see Table 3). This pattern led to significant differences in mean levels of positive affect at 12 weeks, $t(df = 80) = 1.77, p = .04, d = 0.40$, and at 20 weeks, $t(df = 80) = 2.46, p = .008, d = 0.55$ (see Figure 2).

In terms of negative affect, the unconditional model yielded a significant mean intercept, at $\gamma_{00} = 1.679, p < .001$, and a significant mean linear slope, $\gamma_{10} = -0.007, p < .05$, for the whole sample. This means that negative affect decreased linearly for the entire sample. Results from the conditional analyses showed an intervention effect on the intercept, $t(df = 80) = -2.13, p = .04$, but not on the linear slope, $t(df = 80) = 1.01, ns$.

Life Satisfaction

The unconditional model showed a significant mean intercept, at $\gamma_{00} = 30.123, p < .001$, and a significant mean linear slope, $\gamma_{10} = 0.046, p < .05$, for the whole sample,

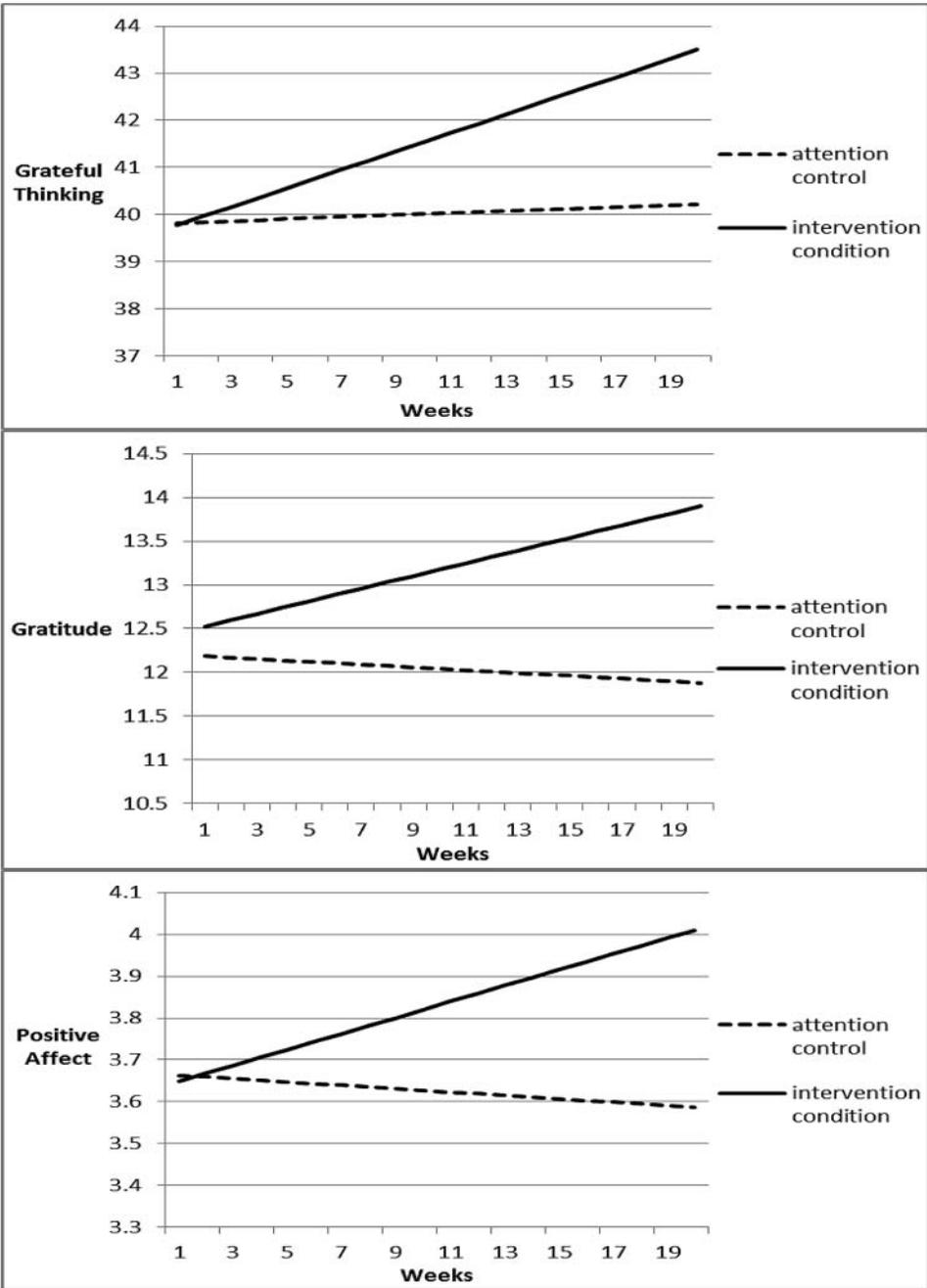


Figure 2. Growth curves of benefit appraisals (grateful thinking), gratitude, and positive emotion by experimental condition for Study 2. Treatment slopes are statistically significant at $p = .001$ for benefit appraisals (i.e., grateful thinking), $p = .02$ for gratitude, and $p = .008$ for positive affect. Scores for grateful thinking could range from 9 to 45. Scores for gratitude could range from 3 to 15. Scores for positive affect could range from 1 to 5 because the mean was calculated owing to some missing data.

Table 3
Hierarchical Linear Model Results Based on Conditional Models in Study 2

Dependent Variable	Attention-Control Condition	Intervention Effect
Grateful thinking		
Intercept	39.820 (0.753)***	-0.049 (0.991)
Linear slope	0.021 (0.038)	0.175 (0.057)**
Gratitude		
Intercept	12.185 (0.479)***	0.339 (0.599)
Linear slope	-0.016 (0.029)	0.0563 (0.034)*
Positive affect		
Intercept	3.663 (0.117)***	-0.014 (0.149)
Linear slope	-0.004 (0.007)	0.023 (0.008)**
Negative affect		
Intercept	1.798 (0.085)**	-0.223 (0.104)*
Linear slope	-0.011 (0.005)	0.006 (0.006)
Life satisfaction		
Intercept	28.827 (0.667)***	2.416 (0.845)**
Linear slope	0.072 (0.037)	-0.049 (0.043)

Note. The numbers in parentheses are standard errors. Intervention effect is the difference between the gratitude curriculum (coded as 1) and the control condition (coded as 0).

* $p < .05$. ** $p < .01$. *** $p < .001$.

indicating that life satisfaction increased linearly for everyone during the 20 weeks. Conditional analyses showed an intervention effect on the intercept, $t(df = 80) = 2.86$, $p = .006$, but not on the linear slope, $t(df = 80) = -1.13$, *ns*.

Brief Discussion

The treatment condition was effective in altering appraisals of perceived intention, cost, and value of interpersonal benefits. Students who were in this condition exhibited growth in benefit appraisals (i.e., grateful thinking) over time, whereas students in the attention-control condition did not. The peak difference in magnitude between the two groups was seen at T5 (5 months after the start of the intervention), suggesting somewhat lasting effects of the intervention. By use of the definition of Cohen (1992), this peak in benefit appraisals is close to showing a large effect.

The main goal of this study was to induce gratitude by helping to educate children about benefit appraisals. The results provided support for this notion. Students in the treat-

ment condition exhibited growth in gratitude over time, whereas students in the control condition remained static. Although the effect size was small, the peak difference in magnitude between the two groups again emerged by the final time point, which amounted to a medium-sized effect.

With respect to the intervention's impact on subjective well-being, we found a similar pattern for positive affect. That is, students in the treatment condition exhibited growth in positive mood relative to the students in the control condition, whose positive mood remained stable. This also resulted in a medium-sized difference between the two groups by the final time point. Such evidence provides further support for the use of benefit-appraisal education as a viable gratitude intervention, showing that our intervention produced results analogous to those commonly obtained through more established gratitude intervention techniques. However, the intervention did not influence the other two measures of subjective well-being (i.e., negative affect and life satisfaction) in the study.

General Discussion

Our research was the first to test a gratitude intervention with children aged as young as 8 years (cf. Froh et al., 2009). Our results converge with previous research confirming the empirical benefits of gratitude interventions with older youth as well as with adults. We predicted that 8- to 11-year-old children participating in a curriculum that trained their schemas for receiving help or benefits from other persons would engage in more grateful cognitive processing, as compared with a control condition, and that—as a result—they would experience more gratitude and subjective well-being. This pattern was mostly confirmed across the two studies reported in this article. This preliminary study with convenience samples supports the notion that elementary school children can be taught to think more gratefully via a brief cognitive intervention delivered in classrooms. Furthermore, increases in gratitude were linked to increases in thanking behavior (in Study 1) and general positive affect up to 20 weeks later (in Study 2). The observation that increases in one specific positive mood state (i.e., gratitude) may have facilitated behavioral changes and increases in other positive emotions (e.g., happiness) is in line with theories suggesting that gratitude should lead to reciprocal kind acts (Bartlett & DeSteno, 2006) and increases in well-being (Emmons & McCullough, 2003).

Our research makes a notable contribution to the developing science of gratitude interventions. The benefit-appraisal curriculum introduced in this report and tested in these two studies offers an additional empirically validated intervention for enhancing gratitude. Wood et al. (2010) classified gratitude interventions into three categories: gratitude journals, grateful writing/contemplations, and behavioral expressions of gratitude. Although the journaling approach has been used most often with adults, it is not without limitations (Wood et al., 2010). One of these may be in its use with younger children, particularly in experimental research in which uniformity of the experimental manipulation within a condition is paramount. The journaling ap-

proach allows for wider variability in what participants focus on (e.g., the number of things they are grateful for, the degree of elaboration and personalization involved). The curriculum introduced in this article is much more standardized. Benefit-appraisal education offers a uniform, structured lesson plan that allows for less within-group variability. The benefit-appraisal curriculum provides a relatively easy-to-implement tool that complements other positive psychology exercises available for use by school psychologists.

Our main goal was to examine whether teaching benefit appraisals could produce gratitude in children during the age range when gratitude is thought to mature in development. The results were promising in this respect. In fact, because the moral self develops through more advanced social interactions during middle childhood (Eisenberg, Spinrad, & Sadovsky, 2006), an intervention that scaffolds appraisals of helpful exchanges may be an optimal way to promote gratitude during this period. Developmental research studying processes involved in such an intervention can help tailor benefit-appraisal education to various age groups. For instance, it would be fruitful to understand why the appraisals of value, cost, and intention each boosts gratitude in different age groups. Such knowledge will also help to better understand trait gratitude during this formative period in development.

A methodologic strength of our study is that we were able to closely monitor the interventions as they unfolded. We took care to ensure that all procedures, both within and across conditions and grade levels, were strictly followed. Compared with other gratitude interventions, such close monitoring represents an improvement. However, we acknowledge that use of self-report checklists to assess treatment integrity was a limitation because self-presentation concerns toward the experimenter (i.e., contact author) may have influenced administrators' completion of the checklists. It would have been ideal to observe and rate some of the curriculum administration sessions, but logistics prevented this from happening.

Another drawback is that we did not randomly assign students to conditions, thus limiting our ability to draw strong causal inferences. Random assignment of individuals was not possible at the included schools given the burden true random assignment would have posed. However, random assignment of individuals would provide a stronger test of this intervention because it would eliminate confounds due to individual differences between students or classroom teachers.

Another limitation is that students from the two different conditions could have interacted with each other, learning who received what curriculum. Having learned that they did not receive the benefit-appraisal curriculum, students receiving the attention-control curriculum may have then seen their treatment as not credible, having no impact on them. This negative view of the control condition could potentially help explain the between-group differences. Future researchers should consider assessing this treatment expectation at pretest to control for it in later analyses.

Furthermore, our participant pool was restricted in socioeconomic and demographic diversity. Data were obtained from students in an affluent school district, limiting the generalizability of our findings. Our samples comprised students living in communities and schools that are different from many others. The distributions of cognitive and academic skills are higher and narrower and the students have fewer unmet social or emotional needs, as compared with average school districts. However, youth who are lower in positive emotions benefit more from gratitude interventions than students who are higher in positive emotions (Froh et al., 2009). Thus, it may be that students with greater academic, emotional, or social needs would benefit more from our benefit-appraisal curriculum. Therefore, future research should examine the effects of gratitude interventions in a broader range of family income levels and across various ethnic groups, especially among disadvantaged populations. Such studies may yield new and different effects.

Conclusion

At a broader level, there are implications of this research for school settings and positive youth development. Many secondary students report dissatisfaction with their school experience (Huebner et al., 2005). Experiencing and expressing gratitude comprise a simple way to counter negative appraisals of school and increase school bonding and social adjustment (Froh et al., 2008). Given such findings, future research should examine whether gratitude promotion also affects helping, cooperation, and trust between students. Evidence suggests that gratitude boosts social cohesion, relational and job satisfaction, and organizational functioning as well (Emmons, 2004). So, the improved behaviors that could ensue from gratitude promotion in schools would likely spread to teachers and staff, encouraging them to work harder for students and helping to prevent burnout. Therefore, teaching students to develop an attitude of gratitude may foster stronger bonds to schools and communities, helping both students and schools to thrive (Froh & Bono, 2011).

Given the ease of inducing gratitude, its potential for making school tasks and exercises more creative and interesting, and its benefits to individuals and their environments, gratitude interventions for youth should be seriously considered by those interested in fostering positive youth development. Gratitude may strengthen supportive relationships and increase prosocial behavior in adolescents (Froh, Yurkewicz, & Kashdan, 2009), and these resources may be especially useful for students with special needs, physical disabilities, or social adjustment difficulties. Teaching students to respond gratefully to friends who protect them from a bully, encourage them to persist on a task, or offer help on homework can strengthen friendships, increasing students' satisfaction with school and their chances of succeeding.

Establishing social relationships and a sense of identity are central challenges as children enter adolescence. Both are complicated in contemporary culture, where youths' social worlds are characterized by unprecedented amounts of time spent with mass media and

exposure to commercial forces that push materialistic pursuits and risky behaviors, which can undermine healthy social development. Gratitude can counteract such forces and help youth thrive (Froh, Emmons, et al., 2011). Acknowledging kind acts from others strengthens relationships, helps secure new relationships, and improves health and well-being. Education that facilitates cognitive appraisals that produce gratitude should be encouraged as early in life as possible so that young persons have a head start toward becoming mature receivers and providers of benevolent actions. Grateful thinking, then, may help improve the supportiveness of school climates, as well as bringing the added benefit of boosting students' interest in getting the most out of school.

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Appendix

Comparison Between Benefit-Appraisal and Attention-Control Lesson Plans

Benefit-Appraisal Lesson Plans	Attention-Control Lesson Plans
<p>Session 1</p> <p><i>Set it up:</i> The facilitator introduces self and explains what will take place during the meetings.</p> <p><i>Talk about it:</i> The facilitator writes down the word thankful and has the group discuss the word and what it means.</p> <p><i>Jot it down:</i> The facilitator hands out journals, and the students are instructed that these will be their gratitude journals. The students then jot down three things that they are most thankful for.</p> <p><i>Watch it:</i> The facilitator will show the video clip “Gratitude Is,” which displays various terms and feelings associated with gratitude.</p> <p><i>Sum it up:</i> The facilitator will ask the students to sum up what they learned today and instruct them to think of other things that they feel grateful for to share during their next meeting. Raffle tickets are then handed out.</p>	<p><i>Set it up:</i> The facilitator introduces self and explains what will take place during the meetings.</p> <p><i>Talk about it:</i> The facilitator writes down the word activities and has the group discuss the word and what it means.</p> <p><i>Jot it down:</i> The facilitator hands out journals, and the students are instructed that these will be their daily events journals. The students then jot down three things that they do throughout the day.</p> <p><i>Watch it:</i> The facilitator will show the video clip “Active Kids,” which displays various pictures of children participating in different activities.</p> <p><i>Sum it up:</i> The facilitator will ask the students to sum up what they learned today and instruct them to think of something new that they did this week for their next meeting. Raffle tickets are then handed out.</p>

Appendix Continued

Benefit-Appraisal Lesson Plans

Attention-Control Lesson Plans

Session 2

Intentions

Set it up: The facilitator will review the previous session and the assignment that was to be completed for this session.

Talk about it: The facilitator explains that today they will talk more about **grateful feelings, and explains what the word *intentional* means.**

Think about it: The students take out their **gratitude journals and, working in teams, answer questions about two passages that the facilitator reads to them.**

Jot it down: In their journals, the students will write about **a time that someone went out of their way to help them.**

Sum it up: The facilitator sums up the session and explains that, for next week, the students are to look out for **moments that they feel thankful.**

Session 3

Cost

Set it up: The facilitator reviews the previous session and goes over the assignment from the last session.

Talk about it: The students are asked to describe **the word *cost* and are taught the different meanings of the word and how it could mean a time when someone gave up something for someone else.**

Read about it: The facilitator reads **the book *The Giving Tree* (Silverstein, 1964) and then discusses the book with the students.**

Create it: The students are given a picture of a **leaf and are asked to write down one thing they would do to show the tree that they were grateful for what she did for them.**

Jot it down: The students write down **a time that someone went out of their way to help them.**

Others' Activities

Set it up: The facilitator will review the previous session and the assignment that was to be completed for this session.

Talk about it: The facilitator explains that today they will talk more about the **different activities** we do.

Think about it: The students take out their **daily events journal, pair up, and interview each other to find out more about what different things their partner might do in his or her day.**

Jot it down: In their journals, the students will think of **three activities that they learned about the person they interviewed.**

Sum it up: The facilitator sums up the session and explains that, for next week, the students are to look out for **new activities that they do.**

Seasonal Activities

Set it up: The facilitator reviews the previous session and goes over the assignment from the last session.

Talk about it: The students are asked to describe **the different things they might do in the different seasons of the year.**

Read about it: The facilitator reads **four poems about different activities that occur throughout the seasons.**

Create it: The students are given a graphic organizer of the **four different seasons and are asked to list or draw different activities that they do in each season.**

Jot it down: The students write three things that they typically **do during one season of the year.**

Appendix continued

Benefit-Appraisal Lesson Plans	Attention-Control Lesson Plans
<p><i>Sum it up:</i> The facilitator sums up the session and explains the assignment for next week, which is to write down different times someone helped them and what they did.</p> <p>Session 4</p> <p>Benefit</p> <p><i>Set it up:</i> The facilitator reviews the previous session and goes over the assignment from the last session.</p> <p><i>Talk about it:</i> The facilitator explains what benefit means and asks for examples of benefit as it relates to gratitude.</p> <p><i>Create it:</i> The students open their journals and write some of the things that others have done to help better them in some way.</p> <p><i>Jot it down:</i> Also in their journals, the students write about a time that someone went out of their way to help them.</p> <p><i>Sum it up:</i> The facilitator sums up what they discussed in the meeting and assigns the students to think of the times that someone helped them during the week and write about its benefits.</p> <p>Session 5</p> <p><i>Set it up:</i> The facilitator reviews the previous session and goes over last week's assignment.</p> <p><i>Talk about it:</i> The facilitator continues to review by writing down three components (intention, cost, and benefit) on the board with a large equal sign and the word "grateful" next to it.</p> <p><i>Act it out:</i> The facilitator assists the students with role-play situations of feeling grateful.</p> <p><i>Jot it down:</i> In their journals, the students write about a time someone went out of their way to help them and explains the intention, cost, and benefit.</p> <p><i>Watch it:</i> The facilitator shows the video clip "The Gratitude Dance."</p> <p><i>Sum it up:</i> The facilitator sums up everything they talked about.</p>	<p><i>Sum it up:</i> The facilitator sums up the session and explains the assignment for next week, which is to write down new activities they participated in and what happened.</p> <p>Daily Routine Activities</p> <p><i>Set it up:</i> The facilitator reviews the previous session and goes over the assignment from the last session.</p> <p><i>Talk about it:</i> The facilitator explains what a routine is and asks for examples of daily routine activities.</p> <p><i>Create it:</i> In their journals, the students write some of the things that they do every day in the chart.</p> <p><i>Jot it down:</i> Also in their journals, the students write three daily routine activities.</p> <p><i>Sum it up:</i> The facilitator sums up what they discussed in the meeting and assigns the students to think about the new activities they participated in and write about what happened.</p> <p><i>Set it up:</i> The facilitator reviews the previous session and goes over last week's assignment.</p> <p><i>Act it out:</i> The facilitator assists the students in a game of charades to act out different activities we might do.</p> <p><i>Jot it down:</i> In their journals, the students list as many activities as they can think of.</p> <p><i>Watch it:</i> The facilitator shows a funny video clip about daily activities.</p> <p><i>Sum it up:</i> The facilitator sums up everything they talked about.</p>

Note. Differences between lesson plans are indicated by boldface.

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Associate Editor: Shannon Suldo ■

Jeffrey J. Froh, PsyD, received his PsyD in school psychology from St. John's University. His research interests are in the development, measurement, and enhancement of gratitude in children and adolescents. He is particularly excited about creating new school-based gratitude interventions for educators and mental health professionals.

Giacomo Bono, PhD, received his PhD in social psychology from Claremont Graduate University. His research activities focus on determinants and outcomes associated with positive responses to interpersonal harms (forgiveness) and benefits (gratitude). He is now investigating the role of these strengths in positive youth development and resilience to better understand how healthy relationship functioning can better serve youth in terms of achievement and well-being.

Jinyan Fan, PhD, received his PhD from The Ohio State University and is now an associate professor at the Psychology Department at Auburn University. His research activities focus on developing and assessing various interventions in the organizational setting that improve personnel selection decisions or facilitate new organizational members' adjustment processes and outcomes in the new environment.

Robert A. Emmons, PhD, is Professor of Psychology at the University of California, Davis. He received his PhD degree in personality and social ecology from the University of Illinois at Urbana-Champaign. He is Founding Editor and Editor-in-Chief of *The Journal of Positive Psychology*. His research focuses on the science and practice of gratitude and thankfulness, especially on the effect of gratitude on subjective well-being and human health and happiness, as well as on the development of gratitude in youth.

Katherine Henderson, PsyD, received her PsyD in school psychology from Hofstra University. She practices school psychology and psychotherapy in New York.

Cheray Harris, MS, is currently a doctoral candidate in the School-Community Psychology program at Hofstra University. Her research interests include how to apply school-based positive psychology interventions to at-risk youth.

Heather Leggio, MS, is currently a doctoral candidate in the School-Community Psychology program at Hofstra University. Her research interests include positive psychology, gratitude, generosity, happiness, prosocial behavior, and the development of well-being in youth.

Alex M. Wood, PhD, received his PhD in psychology from the University of Warwick. He is now a professor and director of the Behavioural Science Centre at Stirling Management School and the director of the Centre for Graduate Research in Management at the University of Stirling. His research links the behavioral sciences (such as psychology) with the social sciences (such as economics and management) to better understand connections among economic, psychological, and health outcomes and their determinants.