The Impact of a Teacher-Based Positive Education Intervention on Student Wellbeing Literacy

Lea Waters and Matthew Charles Higgins

Abstract

Over the past decade, research has consistently found that positive education interventions have a beneficial effect on mental health outcomes for students, such as improvements in life satisfaction and reduction of anxiety. While it is encouraging to see these changes in student mental health, the research has not yet adequately explored whether positive education interventions change a student’s understanding of wellbeing itself. Wellbeing literacy is a new construct within the field of positive education and is defined as the ability to understand the concept and language of wellbeing. This study examines whether student language and understanding of wellbeing changes following a teacher-based intervention in positive education. Students across grades five, six and seven (ages 11–13; n = 231) from three Australian schools provided brief written descriptions of their understanding of wellbeing before and after their teachers undertook an eight-month positive education intervention. Thematic analysis was used as the methodological tool to analyze student language and understanding of wellbeing. Inferential frequency-based statistical analyses were used to compare the pre-intervention and post-intervention responses. The results revealed that student understanding of wellbeing evolved in four key ways to become more: (1) detailed; (2) strength based; (3) expanded/multidimensional; and (4) relational. Post-intervention understanding of wellbeing was significantly more likely to include aspects of emotional management, strengths, coping, mindfulness and self-kindness. Implications, limitations and future directions are discussed.

Keywords: Positive education, student wellbeing, wellbeing literacy, intervention, teacher practice, qualitative research

Over the last two decades, youth mental illness has reached alarming rates globally (De Girolamo et al., 2012; Eyre & Thapar, 2014; Frigerio et al., 2009; Kessler et al., 2001; Kieling et al., 2011; Lawrence et al., 2015). The COVID-19 global pandemic and its associated restrictions and disruptions have further compromised the mental health of young people, with sharp rises in depression, anxiety and post-traumatic stress disorder (PTSD) across many countries (Arslan & Yıldırım, 2021; Guo et al., 2020; Kassim et al., 2021; Liang et al., 2020; Marques de Miranda et al., 2020; Yezmin et al., 2020; Zhou et al., 2020).

As a response to the growing rates of youth mental illness occurring before and during the pandemic, numerous international organizations are calling for schools to play an active role in preventing youth distress and promoting youth wellbeing including the World Health Organization (WHO), the World Bank, the United Nations, the Organisation for Economic and Co-operative Development (OECD) and United Nations Educational, Scientific and Cultural Organization (UNESCO) (Helliwell, Layard & Sachs, 2013; Learning Metrics Task Force, 2013; WHO & UNESCO, 2018; WHO et al., 2000, 2021). For example, WHO states that focus on student wellbeing must be a top priority during the COVID-19 crisis (WHO, 2020). Prior to the crisis, and even more relevant today, the OECD (2015, p. 32) stated that “[p]erhaps the ultimate goal of education policy makers, teachers, and parents is to help children achieve the highest level of wellbeing possible.”

In the current paper, wellbeing is conceptualized as a multidimensional construct (Forgeard et al., 2011; Seligman, 2018; Stutz & Frey, 2010) characterized by a profile of indicators that fall on the positive end of the mental health

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Researchers have identified that youth wellbeing comprises many positive dimensions, including, but not limited to, happiness, life satisfaction, positive affect, meaning, mastery, hope, engagement and connection (Arslan, 2021; Kern et al., 2015, 2016; Lerner et al., 2009). In layperson’s terms, wellbeing can be seen as “the combination of feeling good, functioning well and doing good” (Waters et al., 2017, p. 247).

The call for schools to teach both traditional academic skills and wellbeing skills is at the heart of positive education, a decade-old field that seeks to weaves positive psychology principles into teaching and learning to promote student wellbeing (Seligman et al., 2009; Slemp et al., 2017). Research has shown that positive education interventions are generally successful in building student wellbeing outcomes, including increases in life satisfaction, positive emotions, self-esteem, coping ability and emotional stability as well as reductions in anxiety, depression and stress (Owens & Waters, 2020; Shoshani et al., 2016; Waters et al., 2015; Waters & Loton, 2019). However, one outcome of positive education that has typically been overlooked is that of wellbeing literacy (Oades, 2017; Waters, Loton et al., 2021).

**Wellbeing Literacy: A Foundational Building Block for Student Mental Health**

Oades and Johnston (2017, p. 1) describe an individual’s knowledge about wellbeing as “wellbeing literacy.” In the same way that a person can be literate (i.e., have knowledge, be educated) in the arts, history or politics, a person can also be literate in wellbeing. Wellbeing literacy is a construct that reflects the intersection between the words that people use to describe wellbeing and the understanding they have of wellbeing. According to Oades et al. (2020), there is a two-way relationship between words and understanding in wellbeing literacy. The words people use about wellbeing shape their understanding of it. On the other hand, as an individual’s understanding of wellbeing changes, the words they use to describe it change too. Put differently, words shape understanding and understanding shapes words and, in turn, the intersection between these two shape a person’s experience of wellbeing. For example, affect labeling (i.e., the capacity to put words to one’s emotions and inner experiences) has long been found to be a factor that significantly contributes to psychological healing in therapy (Jager et al., 2021), and has also been found to improve distress regulation in non-clinical samples (Constantinou et al., 2014). In education contexts, teaching emotional literacy to students has been found to improve self-confidence and interpersonal skills (Bracket et al., 2019; Weare, 2004). Conversely, low emotional literacy in students is a risk factor that increases their likelihood of psychological maladjustment, alcohol use, academic anxiety and somatic complaints (e.g., trouble sleeping, headaches) as well as reducing their ability to regulate distress after a stressful situation (Brown et al., 2021; Kashdan et al., 2010; Liau et al., 2003).

Given that the ability to describe and understand their own wellbeing is an important factor that shapes mental health outcomes for students, research into how wellbeing literacy can be fostered in schools is important. Indeed, Haddon et al. (2005, p. 5) called for research to examine how “a school enables members of its community to interact in ways that build an understanding of their own and others’ emotions and to use this understanding to shape their actions.” To this end, scholars have examined several ways in which wellbeing literacy can be fostered in schools, including circle time, positive psychology interventions, use of wellbeing language and training teachers in positive education.

Circle time is a group listening practice that provides students with the space and permission to talk about their feelings, explore moral topics and resolve conflict (Cefai et al., 2013). Research has shown that this classroom practice cultivates emotional literacy as evidenced by students developing a wider vocabulary about emotions, feeling more comfortable talking about their emotions, improving their ability to regulate their own emotions and becoming more adept at recognizing the emotional states of others (Coppock, 2007; Roffey, 2006; Tomainey & McClelland, 2011).

Holder et al. (2016) designed a student-based intervention that focused on happiness by placing “Walls of Wellbeing” (WOWs) around the student campus in two schools and inviting student to write their answers to the question “I feel happy when…” The WOWs allowed students to identify and talk about happiness with their teachers and other students. The students’ written responses provided Holder and his colleagues with a qualitative data set of wellbeing literacy as it relates to happiness. Kindergarten and elementary school students described happiness as coming from relationships (e.g., friends, pets) and had an other-orientation (e.g., sharing, helping someone), while
junior high students described happiness as coming from activities they undertake (e.g., reading, eating, gaming, music) and focused more on personal feelings (e.g., feeling proud, inspired).

A further avenue shown to influence wellbeing literacy in students is the use of teacher language. For example, research shows that the type of feedback teachers provide (using general language versus specific words) significantly influences whether students adopt a fixed or growth mindset – the understanding a student has about their own capacity for change (Cimpian et al., 2007; Zentall & Morris, 2010). Similarly, Dweck (2008) found that the use of the word “yet” by teachers (e.g., “You don’t know how to solve that equation, yet”) was significantly predictive of a student’s likelihood to stay motivated and persist through learning challenges. According to Dweck (2008), the inclusion of the term “yet” in the teacher’s lexicon creates a path for future growth because it communicates to students the potential for improvement, learning and success.

It is not only the language of teachers that effects student wellbeing literacy, but also the language the students use themselves. Larson and colleagues (Larson, 1983; Larson & Kleiber, 1993) as well as Heath (1991, 1993, 1999) have shown that peer language is a core factor in a teenager’s understanding of themselves as having mastery and initiative. Larson’s (2000) research found that students who took part in group-based extracurricular activities or community youth activities developed their own “operating language of initiative” (Larson, 2000, p. 171) and this change in language allowed them to show independence, create change and manage responsibility.

The research above suggests that circle time, student interventions (e.g., WOWs) and use of language (e.g., teacher and peer) are three important mechanisms that can be used to gain insight into and bolster various aspects of wellbeing literacy. Moreover, these studies have provided students with an opportunity to talk about and understand various dimensions of wellbeing, including emotions, happiness, mindset, motivation and initiative.

Waters (2021) developed a positive education intervention that trained teachers in wellbeing language and wellbeing classroom practices to investigate whether this could promote wellbeing literacy in the classroom. Across three time points of qualitative data collection teachers reported improvements in their own wellbeing literacy: “The major difference is the language I can now give to the students for them to better recognize and have words for their wellbeing and how it influences their behaviours and actions” (Waters, 2021, p. 148). They also reported improvements in the wellbeing literacy of their student: “Students have a broader vocabulary around emotions and it’s allowing them to express themselves in a more open and honest way” (Waters, 2021, p. 148). Additionally, teachers in this study reported that the wellbeing practices had enhanced students’ understanding of what wellbeing is and the ways they can influence their own mental health. To this end, the teachers reported outcomes such as students developing a wider emotional vocabulary; talking about and using their strengths more often; showing greater empathy towards their peers and expressing more gratitude to others. However, the study did not collect direct data from the students themselves and, instead, relied on teacher data.

According to Oades et al. (2020), wellbeing literacy is a skill that can be developed in young people given the right learning environment. The research above shows that circle time, positive psychology interventions for students, teacher/peer language and teacher-based positive education interventions form part of a learning environment that successfully fosters wellbeing literacy. The current study seeks to build on this knowledge and address two clear gaps in the literature. First, research to date has focused on specific dimensions of wellbeing literacy (i.e., emotions, happiness, mindset, motivation and initiative) but has not yet asked an open-ended question about wellbeing more broadly. By focusing on specific aspects of wellbeing, students can only provide narrow answers and thus cannot express the range of ideas they may have about wellbeing. While it has been validated that wellbeing is a multidimensional construct (Forgeard et al., 2011; Seligman, 2018; Stutzer & Frey 2010) research to date has not provided a way for students to tell us if they understand wellbeing to be unidimensional or multidimensional and, if multidimensional, what dimensions are relevant to them. The current study will not focus on one aspect of wellbeing but will use an open-ended question about wellbeing that allows students to provide a range of answers.

Second, and related to this, much of the research has used adult-centric measurement such as researcher-designed surveys (e.g., Cimpian et al., 2007; Zentall & Morris, 2010), standardized tests (e.g., Tominey & McClelland, 2011), or teacher reports or teacher observation (e.g., Waters, 2021). According to Lansdown (2004, p. 5), research has too often “assessed children from an adult perspective and through an adult filtering process.” This reliance on adult-
centric data collection measures means that the language students themselves use to describe wellbeing has not been utilized as data. Given that wellbeing literacy is, at its core, about the words that young people use, it is vital that positive education researcher use “student voice” research methods (Cook-Sather, 2018) that directly collect the students’ own descriptions of wellbeing.

In the current study, we aim to examine whether wellbeing literacy develops in students following a positive education intervention. The qualitative nature of this research means that specific hypotheses are not provided, rather an over-arching guiding research question is explored as follows: Does training teachers about positive education improve student wellbeing literacy?

**Method**

**Positive Education Intervention for Teachers: Visible Wellbeing**

Over the past 15 years, education researchers have advocated for a science-informed pedagogy of learning (Fischer et al., 2007) that involves training teachers how to use the science of learning to improve academic outcomes for students (Darling-Hammond et al., 2008; Hattie, 2008; Ritchhart et al., 2011).

<p>| Table 1. SEARCH pathways and examples of positive education interventions for each pathway |
|---------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|</p>
<table>
<thead>
<tr>
<th>Search Pathway</th>
<th>Description of Pathway</th>
<th>Search Interventions Researched in Science</th>
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<tbody>
<tr>
<td>Strengths</td>
<td>Pre-existing qualities that arise naturally, feel authentic, are intrinsically motivating to use and energizing</td>
<td>Strength awareness: These interventions help students to identify their strengths, typically through surveys</td>
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<td></td>
<td></td>
<td>Strength use: These interventions help students set goals for how to put their strength into actions</td>
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<td></td>
<td>Strength spotting: These interventions teach students how to see when their peers are using strengths</td>
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<td>Emotional management</td>
<td>The ability to identify, understand, and manage one’s emotions</td>
<td>Emotional intelligence (EI): These interventions teach students how to perceive, understand, use, and regulate emotions</td>
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<tr>
<td></td>
<td></td>
<td>Gratitude: Gratitude interventions help students to notice, appreciate, and acknowledge the positive in their lives</td>
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<tr>
<td>Attention and awareness</td>
<td>Ability to focus on inner aspects of self (e.g., emotions) or on external stimuli (e.g., the teacher). Awareness refers to the ability to pay attention to a stimulus as it occurs</td>
<td>Meditation: Meditation is defined as the deliberate act of regulating attention through the observation of thoughts, emotions and body states. Meditation interventions in schools involve training a student’s attention</td>
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<td></td>
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<td>Mindfulness: Mindful interventions help students to develop the skill of self-observation and to be dispassionate and compassionate about themselves in the present moment</td>
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<td>Relationships</td>
<td>This pathway involves the skills required to build and support social relationships as well as capitalize on momentary social interactions</td>
<td>Mentoring: Mentoring is a process by which a more experienced person provides a less experienced person with guidance, support, and care over an extended period</td>
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<td></td>
<td></td>
<td>Peer support: peer-to-peer support enhances a sense of connectedness and belonging in the school</td>
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<td>Coping</td>
<td>Coping is defined as constantly changing cognitive and behavioral efforts to manage demands</td>
<td>Resilience and coping: These interventions aim to help students develop the capacity for maintaining, recovering or improving mental health following life challenges</td>
</tr>
<tr>
<td>Habits and goals</td>
<td>Habits are persistent patterns in decision making and action. Goals are formal aspirations that people aim for and are willing to invest effort in attaining</td>
<td>Goal interventions: These interventions teach students to set and strive for goals</td>
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<tr>
<td></td>
<td></td>
<td>Self-regulated learning (SRL) interventions: SRL interventions teach students the cyclical process of steps needed to persist through the learning process: self-evaluation, self-monitoring and goal setting along with strategy planning, implementation and monitoring</td>
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</table>
Along the same lines, Waters (2021, p. 144) has argued for a “science-informed pedagogy for wellbeing” that involves training teachers how to use the science of positive education to improve wellbeing outcomes for students.

To this end, Waters (2015) developed a pedagogical intervention for teachers based on the science of positive education called Visible Wellbeing (VWB). Visible Wellbeing trains teachers in a language, framework and practices for seeing and building the wellbeing of their students. The evidence-based framework that underpins the VWB intervention is called SEARCH (Waters, 2019; Waters & Loton, 2019). The SEARCH framework covers six overarching pathways to wellbeing: strengths, emotional management, attention and awareness, relationships, coping and habits, and goals. Teachers who are trained in the VWB intervention undertake a three-hour training module in each of the six SEARCH pathways. Table 1 provides a description of each of the six pathways together with examples of positive education interventions that map on to the pathways.

Using the principles of distributed learning (Downes, 2017) the VWB intervention was delivered over an eight-month period (across Terms 1, 2 and 3) so that teachers had time to digest the learning from each training module and embed each of the SEARCH pathways into their classroom over time. As part of the intervention, teachers were provided with SEARCH-based activities that help students learn the language and skills for wellbeing. For example, strengths activities included students completing a strength survey and spotting strengths in their peers. Emotional management activities included identifying emotions through a mood-meter and playing emotions bingo.

**Sample and Procedure**

Two hundred and thirty-one students from fifth, sixth and seventh grades formed the final sample for this study (age range 11–13; 49% female). Students were sourced from three Australian schools whose teachers had been involved in the positive education intervention.

At the beginning of the academic year, before the teachers began the positive education intervention, students were asked to log into an online Qualtrics page developed for the purposes of this study and type their name and a brief explanation of what they thought wellbeing was. At the end of the academic year, students were again asked to log on to the Qualtrics page and type their name and a brief explanation of wellbeing. Student names were used to match pre-intervention (time 1) and post-intervention answers (time 2), and the names were then removed from the data set and each matched pair of answers was given a code number. An 87% response rate was obtained at post-intervention, with 13% of students from time 1 not entering an answer. Typical reasons for not completing the post-intervention data collection included being absent, feeling unwell or relocating to a different school. Only students who completed both waves of data were included in the study sample.

Students’ written narratives were chosen as the most suitable form of data collection method for this study given that the aim was to access students’ own understanding of wellbeing to identify whether it changed before and after the teacher intervention. Although psychological surveys are the most common form of data obtained from students in positive education research (Waters & Loton, 2019), we did not want to preimpose language and ideas about wellbeing on students by priming them through surveys. While many of the youth surveys used in positive psychology are self-report and, thus, give students autonomy in how they answer, the surveys are based upon adult conceptualizations of wellbeing that use predefined wellbeing language and researcher-created items. This researcher-centric approach means that the knowledge and experience a student has about wellbeing is shoehorned into adult language with no opportunity for students to express their own self-generated meanings of wellbeing. Using students’ own written responses to the question “What do you think wellbeing is?” taps into the young person’s own ideas and voice, thus providing a valid source of data for the aims of the current study.

Similar to Holder et al.’s (2016) research, we adopted the methodology of “short written narratives” (see also Czarniawska, 2004; Olesen & Eskelinen, 2011). While longer forms of narrative have served as the traditional method of data collection in qualitative analysis, short written narratives are growing in popularity because of the rich insight that can be extracted from succinct responses (Blom & Nygren, 2010; Riessman, 2008, Riessman & Quinney, 2005). Short written narratives have the additional benefit of providing insight into student understanding without taking up too much class time. This latter, more practical consideration is important when working with schools as teachers, often, do not want to sacrifice too much class time for research projects.
Epistemological Position and Analytical Method

The method chosen to analyze the data was thematic analysis (TA) (Braun & Clarke, 2006; Clarke & Braun, 2017). TA is a widely used method within the qualitative paradigm that identifies and interprets patterns of meaning across a data set (Braun & Clarke, 2012). According to Clarke and Braun (2017, p. 297), “Researchers have used TA to explore a wide variety of experiential concerns within positive psychology,” and is thus suitably aligned with our current study and its focus on wellbeing.

TA seeks to identify and analyze codes and themes emerging from participant answers. Codes are the smallest units of analysis – they capture notable features of the data and are the building blocks for the larger themes that emerge. A theme represents a patterned response that reflects underlying ideas and assumptions revealed by study participants that is repeated across the data set (Braun & Clarke, 2012). While codes come from the direct words that participants use (e.g., the answer “wellbeing is about happiness and sadness” would gain the code “emotions”), themes are patterns of meaning that come from the way words are strung together by the participant (e.g., the answer “wellbeing is about happiness and sadness” would be classified under the theme of duality as the participant recognizes that both positive and negative emotions comprise the concept of wellbeing).

Braun and Clarke’s (2006) six steps of TA were used as the analytical framework: data familiarization, generating initial codes, searching for themes, reviewing themes, naming themes and writing up the results section. Figure 1 illustrates the iterative process of the first four steps used to generate and determine the codes and themes arising from the students’ written descriptions of wellbeing.

Figure 1. Steps one to four of the TA process in the current study
Source: Based on Braun and Clarke (2006).

Results

Descriptive analysis

One way to examine whether the intervention had an impact on students’ language and understanding of wellbeing is to examine whether the SEARCH wellbeing pathways – strengths, emotional management, attention and awareness, relationships, coping and habits and goals – were more evident in student descriptions of wellbeing post-intervention. As such, answers were coded based on the SEARCH framework to compare data before and after the teacher intervention. In addition to coding answers along the six SEARCH pathways, two other categories were coded: “General” and “Don’t know.” The General category represented answers that talked about wellbeing in general terms (e.g., physical and mental health) without providing specific details. Examples of student answers that were coded into this category are as follows: “it means being well,” “it’s how you feel,” and “I think wellbeing is what’s good for me.”¹ The Don’t know category was coded to represent the students who stated that they did not

¹ Note: Any typos and grammatical errors in students’ answers remain uncorrected in the data analysis and in this paper.
know, or were unclear, about the meaning of wellbeing. Examples of student answers that were coded into this
category are as follows: “I don’t know,” “Idk,” “I’m not sure what wellbeing is,” “I couldn’t say,” and “not sure.”

As can be seen in Figure 2, wellbeing literacy changed considerably from pre-intervention to post-intervention with
regard to student knowledge of the six SEARCH pathways. The most notable increases were in answers that
contained references to coping and attention and awareness, as both of these pathways were absent at time 1, but
formed 17% and 10%, respectively, of all answers at time 2. The other four SEARCH pathways were present at
time 1, but all significantly increased at post-intervention, with the frequency of answers with regard to strengths
increasing by 10% ($\chi^2 (1) = 19.88, p < 0.001$); answers containing references to relationships increased by 10% ($\chi^2
(1) = 19.88, p < 0.001$); emotional management increased by 4% ($\chi^2 (1) = 10.08, p < 0.001$); and answers containing
references to habits and goals increased by 2% ($\chi^2 (1) = 10.40, p < 0.001$).

Figure 2. Student answers coded by SEARCH pathways at pre-intervention and post-intervention stages

Figure 3 depicts the shifts over time in general descriptions of wellbeing as well as shifts in the number of students
who stated that they did not know about wellbeing. General descriptions of wellbeing decreased by 40% ($\chi^2 (1)
= 26.58, p < 0.001$). The frequency of students who answered that they did not know dropped from 34 at pre-
intervention to three at post-intervention – a 15% decrease ($\chi^2 (1) = 23.68, p < 0.001$).

Figure 3. Student answers coded by general and don’t know categories pre-intervention and post-intervention

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2 Note: Numbers represent the raw number of answers that map onto each SEARCH pathway; because a student answer might
contain no SEARCH pathways, the sample size for codes is lower than the number of students contained in the study ($n = 231$).
After exploring the raw numbers, we converted the data into percentages and displayed these in pie charts to observe the proportionality of the eight categories (see Figure 4). At post-intervention, the slices of the pie that contains SEARCH pathways became notably bigger, while the slices of the pie that contain general answers and don’t know answers become smaller — thus, visually depicting how wellbeing literacy changes from pre-intervention to post-intervention. We then combined the numbers for each the six pathways to get a total SEARCH score. At pre-intervention to total SEARCH score was 30. At post-test this score had significantly increased to 170 ($\chi^2 (1) = 98, p < 0.001$).

Figure 4. Percentage of answers coded in SEARCH pathways, general and don’t know categories pre-intervention and post-intervention

Moving down from group-level comparisons of pre- and post-intervention answers to examine shifts for individual students also shows evidence of the effectiveness of the positive education intervention on students’ understanding of wellbeing. Table 2 provides examples from students of how their understanding moved from a general or unclear answer before the intervention to become a more specific and sophisticated answer post-intervention.
Table 2. Within-student examples of how wellbeing literacy changed from pre-intervention to post-intervention

<table>
<thead>
<tr>
<th>Pre-intervention Answers</th>
<th>Post-intervention Answers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Idk</td>
<td>“My understanding of wellbeing is that it is about awareness of your strengths and emotions” [strengths, emotional management, attention and awareness]</td>
</tr>
<tr>
<td>Idk</td>
<td>“Doing mindful and breathing to better control my emotions” [emotional management; attention and awareness]</td>
</tr>
<tr>
<td>Eating healthy</td>
<td>“Relaxing, focusing, paying attention to my thoughts and creating positive thoughts” [attention and awareness]</td>
</tr>
<tr>
<td>I think it is how you feel</td>
<td>“It’s using your strengths, mine are zest, bravery, creativity, wisdom and love” [strengths]</td>
</tr>
<tr>
<td>Wellbeing is how you feel</td>
<td>“Wellbeing is looking after yourself and your emotions. Having the ability to control your emotions” [emotional management]</td>
</tr>
<tr>
<td>Where you can take in or give advice to someone and be able to understand a bit more about yourself as a person truly</td>
<td>“Seeing a situation from different angles, learning how to cope by reframing a situation” [coping]</td>
</tr>
<tr>
<td>Wellbeing is the mental health of a person</td>
<td>“Gratitude and being grateful, reframing hard times to see what you can learn from that experience, seeing the silver lining on the dark cloud. This doesn’t mean you ignore the bad stuff but it means you know you can grow from it” [emotional management and coping]</td>
</tr>
</tbody>
</table>

Note: SEARCH pathways added in brackets at the end of the student answers.

Thematic analysis
Codes

Moving beyond categorical analysis, a TA of wellbeing literacy using Braun and Clarke’s (Braun & Clarke, 2006; Clarke & Braun, 2017) iterative process was used to identify codes in the data. While the categorical analysis above followed a deductive method and used pre-set categories to code the data, the thematic analysis below was inductive, and codes were identified as they emerged from the data itself. This use of both deductive and inductive methods allows qualitative data to be triangulated by identifying common and divergent results using these two methods (Azungah, 2018).

At pre-intervention, the student responses for describing wellbeing generated seven codes. In order from most mentioned to least, the codes were: emotions, physical health, relationships, responsibilities, mind, enjoyment and safety. Descriptions of each of these codes are contained in Table 3. The inductive codes contained aspects of the SEARCH framework but went further. For example, safety and responsibilities are not aspects of the SEARCH framework yet were identified by students in their answers describing wellbeing. Additionally, the emotions code mentioned by students was broader than the SEARCH pathway of emotional management (see Table 1) as it contained general references to emotions without necessarily talking about how to manage emotions.

When comparing the codes at post-intervention with pre-intervention, definitions of wellbeing included significantly more references to strengths ($\chi^2 (1) = 19.88, p < 0.001$) and relationships ($\chi^2 (1) = 3.4, p < 0.05$). The largest increase was seen in a literacy of wellbeing that recognized mental state (8% increase) ($\chi^2 (1) = 22.05, p < 0.001$), including students talking about their minds, mindset and mindfulness. Perhaps related to this increase in references to mental state was the fact that the references to physical health in wellbeing literacy significantly decreased at time 2 ($\chi^2 (1) = 5.93, p < 0.001$) (18.1% decline). The codes of emotions, responsibilities and enjoyment did not change from pre-intervention to post-intervention.

As well as shifts in existing codes over time, two new codes emerged at post-intervention: self-kindness and coping. The new code of self-kindness found at post-intervention comprised mentions of being kind or compassionate towards the self (e.g., “to calm yourself down when you are not feeling your best, to be compassionate to myself when I hav a bad day, self-kindness”) and maps on to the emotional management and coping pathways of the SEARCH framework.
Table 3. Wellbeing literacy codes at pre-intervention and post-intervention stages

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Example Answers from the Data Set</th>
<th>Pre-intervention</th>
<th>Post-intervention</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>n = 257</td>
<td>n = 397</td>
</tr>
<tr>
<td>Physical health</td>
<td>References to staying fit, exercise, adequate sleep, eating,</td>
<td>“It’s about being active and</td>
<td>70 (27.2%)</td>
<td>44 (11.1%)</td>
</tr>
<tr>
<td></td>
<td>staying hydrated, and direct references to the body as vehicle of wellbeing</td>
<td>staying fit and healthy”</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>“Doing exercising and eating</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>healthy food”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emotions</td>
<td>References to emotion and/or feelings, whether they are good or bad</td>
<td>“How are you feeling and if you</td>
<td>100 (38.9%)</td>
<td>123 (31.0%)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>are happy”</td>
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<tr>
<td></td>
<td></td>
<td>“It’s about being happy and sad</td>
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<td>and knowing that feelings come</td>
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<td></td>
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<td>and go”</td>
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<tr>
<td>Responsibilities</td>
<td>References to pursuing goals, organization, completing school</td>
<td>“My understanding to that is</td>
<td>21 (8.1%)</td>
<td>29 (7.3%)</td>
</tr>
<tr>
<td></td>
<td>work, grades, classroom behavior, including hygiene and/or cleaning room</td>
<td>understand what I am doing and</td>
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<td>listen to teacher and well behave”</td>
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<td>“That never give up, be resilient</td>
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<td>and listen to your parents and</td>
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<td>respect our teacher and make</td>
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<td></td>
<td></td>
<td>good friend”</td>
<td></td>
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</tr>
<tr>
<td>Relationships</td>
<td>References to relationships with family, friends, peers, others,</td>
<td>“wellbeing is looking after each</td>
<td>34 (13.2%)</td>
<td>51 (12.8%)</td>
</tr>
<tr>
<td></td>
<td>animals and/or the earth</td>
<td>other and watching their backs</td>
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<td>all the time when they are in</td>
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<td></td>
<td></td>
<td>hear situations”</td>
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<td></td>
<td></td>
<td>“How you feel and how you make</td>
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<td>other feel, its based on your</td>
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<td>inner world and also your</td>
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<td></td>
<td></td>
<td>relationships with others”</td>
<td></td>
<td></td>
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<tr>
<td>Mental state</td>
<td>References to the mind, mindset, or mentality of self and/or others</td>
<td>“My understanding of wellbeing is</td>
<td>19 (7.4%)</td>
<td>61 (15.4%)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>how you are feeling and your</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>mental state”</td>
<td></td>
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<td></td>
<td></td>
<td>“It’s about paying attention the</td>
<td></td>
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<td></td>
<td></td>
<td>inner messages and having</td>
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<td>awareness about how they change</td>
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<td></td>
<td></td>
<td>our actions”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enjoyment</td>
<td>References to enjoying life, small things in life, and overall satisfaction</td>
<td>“To maintain a level of enjoyment”</td>
<td>4 (1.6%)</td>
<td>11 (2.8%)</td>
</tr>
<tr>
<td>Safety</td>
<td>Includes references to safety, being safe, and the safety of others</td>
<td>“The way you feel when you are</td>
<td>5 (1.9%)</td>
<td>–</td>
</tr>
<tr>
<td>Strengths</td>
<td>References to knowing and/or using one’s strengths</td>
<td>“Using your strengths in ways that</td>
<td>4 (1.6%)</td>
<td>30 (7.6%)</td>
</tr>
<tr>
<td>Self-kindness</td>
<td>References to being kind or compassionate towards the self</td>
<td>“Knowing how to be in alone but</td>
<td>–</td>
<td>19 (4.8%)</td>
</tr>
<tr>
<td>Coping</td>
<td>Direct references to coping or dealing with challenges</td>
<td>“Its knowing you can get back on</td>
<td>–</td>
<td>29 (7.3%)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>your feet if you get knocked down,</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>coping is a big part of wellbeing”</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>“We studied people who have had</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>lots of challenges like Gandhi</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>and what coping strategies helped</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Student answers may contain multiple codes within the one response, hence the sample size of codes is higher than the student sample size (n = 231); a higher number of answers mapped on to the codes at post-intervention (n = 397) than pre-intervention (n = 257), which is evidence that wellbeing literacy had greater depth and dimensionality at time 2.
References to the coping pathway at post-intervention included dealing with challenges (e.g., “its aiming high, setting goals, knowing you can try again if you fail the first time”) and being resilient (e.g., “It’s knowing about your emotions and learning to become resilient so you can cope with tough times”). Post-intervention answers also included using specific coping techniques such as breathing (e.g., “Wellbeing occurs at different levels and we can using coping things like star fish breathing if we are at the lowest level”; “We have been taught about mindfulness and about letting go of stress; our teacher showed us breathing tricks that calm us down”).

Themes

The codes above are the smallest units of analysis (i.e., direct words) that were then used in the next step of TA as building blocks to identify themes. Themes represent a higher-order answer because they are formed though an inferred pattern that reflects an underlying assumption revealed by participants about wellbeing (Guest et al., 2012). Two themes emerged in student answers prior to the intervention: (1) dimensionality and (2) duality (see Table 4).

With regard to dimensionality, a pattern emerged in student answers reflecting wellbeing as either a unidimensional or multidimensional concept. Unidimensional conceptualizations of wellbeing contained only one code – for example: “Doing your work,” “It’s socializing and having friends” and “Sleeping a lot and eating vegetables.” These quotes contain the codes responsibility, relationships and physical health, respectively, and each has only one code. Multidimensional answers included multiple codes. For example, “To be happy and to be a good person who is kind and helps others feel happy” was an answer that incorporated the codes of emotions and relationships. Similarly, “it’s more than physical health it’s also about your emotions and the way you think” has elements of physical health, emotions and mental state.

The theme of duality represents the way students depicted the positive and negative aspects of wellbeing. Answers were coded as singular if they contained only one end of the mental health continuum – either negative or positive. Answers were coded as dual if they contained both ends of the continuum. Examples of singular–positive answers included: “It’s your feeling of happiness,” “to maintain a level of enjoyment,” and “my wellbeing is me feeling happy.” Examples of singular–negative answers were typically reflected by wellbeing as the absence of something negative: “It’s trying not to worry,” “making sure you are not stressed or shy or anxious,” and “not being mad and upset.” Examples of dual answers included: “it’s ALL of your emotions and that means you can be sad but you can also be happy and curious,” “Emotions and feelings and your wellbeing is in three basic levels ok, not feeling ok, and angry,” and “wellbeing comes from our emotions and these sit along a spectrum from negative to positive; we have lots of emotions each day.”

At post-intervention, the themes of dimensionality and duality were still present. There was a significant change in dimensionality $\chi^2 (1) = 30.03, p < 0.001$, with unidimensional answers significantly declining by 32.3% and multidimensional answers increasing by 39%, suggesting that students’ understanding of wellbeing had evolved to become more sophisticated after teachers had been trained in a positive education intervention. Duality was also significantly different between pre- and post-interventions ($\chi^2 (2) = 7.30, p < 0.03$). As this theme had three levels, post-hoc testing was conducted using Holm–Bonferroni adjustment to counteract the problem of multiple comparisons. The alpha level of $p < 0.01 (z = –2.64)$ indicated a significant decrease (4.9%) in the singular–negative category at post-intervention.

At post-intervention, answers about wellbeing contained three new themes: agency, perspective and connectedness. With regard to agency, student understanding of wellbeing after their teachers’ positive education intervention training included the ability to influence, control or regulate various aspects of their own wellbeing. For example, students wrote about wellbeing as “control over emotions” and “Wellbeing is important and can change.” Other answers implied agency when they described wellbeing: “I have more choice over my emotions than I sometimes think.”

The theme of perspective reflected students’ views that wellbeing is part of the bigger picture in life, often depicted by students through use of metaphors to explain wellbeing: “your wellbeing is like the weather and you need to have awareness of your own barometer and know you can cope with the storms.” Another student used a mathematical metaphor, stating that “[w]ellbeing is like an equation between your thoughts and your feelings and this equation determines whether your reactions are positive or negative.” Wellbeing was also described as a type
of fitness: “Wellbeing means mental and emotional health; it’s like going to the gym but for your emotions to get fitter.” Another metaphor of wellbeing was diet “Eating good food and having a good ‘mental’ diet by watching what thoughts we eat.”

The third post-intervention theme evident in student descriptions of wellbeing was the recognition that the multiple dimensions of wellbeing are interconnected, such that the students discussed how their thoughts influenced their emotions, or their relationships influenced their ability to cope, and so on – for example, “Wellbeing is about your body and mind and how they talk to each other.” Other answers reflecting this latent theme include: “knowing how I feel when I feel it, knowing that my attention determines my wellbeing, too much screen time is not good, paying attention to the good things in my life,” and “With wellbeing there is a link between your thoughts and your feelings so you can pay attention to the thought bubbles and make yourself happier.” This is a shift from the pre-intervention answers where those students who did provide multidimensional answers of wellbeing did not mention, or show an understanding, that the dimensions were interconnected. However, as the new theme of connectedness was only identified by 16.3% of the students, it was not a theme that a majority of students mentioned.

Table 4. Wellbeing literacy themes identified students’ answers at pre-intervention and post-intervention

<table>
<thead>
<tr>
<th>Themes</th>
<th>Pre</th>
<th>Post</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n = 307</td>
<td>n = 506</td>
</tr>
<tr>
<td><strong>Dimensionality</strong></td>
<td></td>
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</tr>
<tr>
<td>Unidimensional</td>
<td>144 (46.9%)</td>
<td>74 (14.6%)</td>
</tr>
<tr>
<td>Multidimensional</td>
<td>63 (20.5%)</td>
<td>102 (20.1%)</td>
</tr>
<tr>
<td><strong>Duality</strong></td>
<td></td>
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<tr>
<td>Singular–positive</td>
<td>67 (21.8%)</td>
<td>59 (11.7%)</td>
</tr>
<tr>
<td>Singular–negative</td>
<td>17 (5.5%)</td>
<td>3 (0.6%)</td>
</tr>
<tr>
<td>Positive and negative</td>
<td>16 (5.2%)</td>
<td>14 (2.8%)</td>
</tr>
<tr>
<td><strong>Agency</strong></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>–</td>
<td>118 (23.3%)</td>
</tr>
<tr>
<td><strong>Perspective</strong></td>
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<tr>
<td></td>
<td>–</td>
<td>87 (17.2%)</td>
</tr>
<tr>
<td><strong>Connectedness</strong></td>
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<tr>
<td></td>
<td>–</td>
<td>49 (9.7%)</td>
</tr>
</tbody>
</table>

Figure 5 depicts all codes and themes that emerged from the data at pre-intervention and post-intervention stages to provide a visual overview of the results.

**Discussion**

Youth mental illness has been a persistent global issue for the past two decades (Kessler et al., 2001), with distress and illness rates being amplified during the COVID-19 pandemic (Kassim et al., 2021; Marques de Miranda et al., 2020). Burke and Arslan (2020, p. 137) argue, however, that COVID-19 could “become a springboard for positive change, especially in schools that draw on positive education research to… foster students’ social-emotional health.” Indeed, positive education has played a key role in the prevention of student mental illness (i.e., psychopathology and distress) and the promotion of student wellbeing (i.e., indicators on the positive end of the mental health spectrum) both in pandemic times (Arslan & Burke, 2021; Malboeuf-Hurtubise et al., 2021; Waters, Allen, et al.
Positive education interventions have been shown to contribute to a range of youth mental health outcomes such as improvement in life satisfaction, hope and self-esteem, together with reductions in depression, stress and anxiety (Waters & Loton, 2019). Various scholars have also argued that positive education interventions should also be examined for how they can build wellbeing skills and capabilities (Adler, 2017; Waters et al., 2017), as it is these capabilities that endure post-intervention and allow positive mental health outcomes to be sustained over time. One core capability put forward by Oades and colleagues (Oades, 2017; Oades & Johnston, 2017; Oades et al., 2020) is that of wellbeing literacy, defined as the language and understanding of wellbeing. The current study examined whether students’ language and understanding of wellbeing changed following an intervention that trained teachers on the core principles of positive education.

The ability to describe and understand one’s own wellbeing is an important factor that shapes mental health outcomes for students and adults alike (Brackett et al., 2019; Constantinou et al., 2014; Jager et al., 2021; Weare, 2004). As such, Mashford-Scott et al. (2012) and Waters et al. (2021) posit that knowledge of how young people subjectively experience wellbeing is a foundational step in better supporting student wellbeing. In addition, King et al. (2005) reason that teachers are more likely to have a positive impact on student wellbeing if they can connect with students by speaking the student’s own language. King et al. (2005, p. 96) further add that using words that have “ecological validity” for youth is a requirement for “translating developmental science into policies and programs…to support thriving among youth.” Despite the benefits that can be gained through understanding and using students own literacy about wellbeing, Fattore et al. (2009, p. 58) assert that “[l]ittle is known about what children and young people identify as well-being, what it looks like and the factors which affect their sense of it.”

The current study collected written answers by students, analyzed with TA, to directly identify the students' own descriptions of wellbeing. Furthermore, while earlier research has focused on specific dimensions of literacy such as emotions, happiness or mindset, we eschewed that research trend and instead cast a broad net to examine how students express their understanding of wellbeing more generally.

Results from this study found that wellbeing literacy in students grew significantly after their teachers had undertaken a positive education intervention. Teachers were trained in the science and practice of wellbeing using the SEARCH framework (Waters, 2019; Waters & Loton, 2019) and were shown how to implement positive education language and practices in the classroom. When this occurred, post-intervention student literacy evolved in four key ways. Specifically, it became more: (1) detailed; (2) strength based; (3) expanded; and (4) relational. With regard to wellbeing literacy becoming more detailed, while more than half (53%) the students at pre-intervention had a generic understanding of wellbeing (e.g., “wellbeing is being well”; “it’s how you feel”). At time 2, students had developed a more in-depth understanding of wellbeing and were significantly more likely to describe wellbeing using aspects of the SEARCH framework. Post-intervention answers also saw a shift away from describing wellbeing as a form of physical health to an understanding that wellbeing is more about emotions and one’s mental state. Adding to this, the trend of seeing wellbeing as a deficit-oriented construct – in other words, the absence of something negative (e.g., “It’s trying not to feel tired and not to feeling stressed”) – was significantly reduced at post-intervention, with singular–negative answers significantly declining.
and strengths like love and creativity”), there was an understanding that taking a strength-based approach helps to boost wellbeing (e.g., “You can get happy by using your strengths and your strengths can make you resilient”). Perhaps another indirect indicator of this shift towards a strength-based understanding of wellbeing can be seen in the fact that singular–negative descriptions of wellbeing decreased at post-intervention showing that fewer students were defining wellbeing as the absence of something negative, meaning that, proportionally speaking, more students were taking a strength-based approach and seeing wellbeing as the presence of something positive.

Aligned with the strength based approach, wellbeing literacy at post-intervention reflected student views that agency was a key aspect of wellbeing – a theme that was not present at pre-intervention. It seems that, as teachers embedded wellbeing language and practices into the classroom, students learnt that they had more control over their own wellbeing than they initially believed. The students’ post-intervention understanding of wellbeing as something that is strength based and agentic aligns with psychological research that supports the benefits of taking a strength-based approach with students (Proctor et al., 2011; Quinlan et al., 2015).

This newly formed understanding of the multiple ways to use their strengths is reflective of a broader trend in the current data set showing that wellbeing literacy expanded between pre- and post-intervention to become more multidimensional. At the individual student level, unidimensional answers (i.e., answers that contained only one code) declined by 32.3%. Collectively, several new codes and themes were incorporated into descriptions of wellbeing at post-intervention.

The new code of coping at time 2 suggests that student understanding of wellbeing increased beyond wellbeing as “being well” or “feeling good” to that of “knowing you can get back on your feet if you get knocked down, coping is a big part of your wellbeing.” For a smaller number of students (13%), their comprehension of wellbeing had also expanded so that they understood the connectedness and inter-relationships between the multiple dimensions of wellbeing in ways that allowed them to see that the way they thought (code = mental state) influenced the way they felt (code = emotions) or that their relationships with others were a big influence on their own wellbeing.

Another indicator that students’ understanding of wellbeing expanded following their teachers’ training in positive education was the new theme of perspective emerging time 2. In particular, the use of metaphors in post-intervention answers shows the students’ ability to think about wellbeing in abstract ways. Here we see a nice balance of wellbeing literacy becoming simultaneously more detailed yet abstract yet and also more expanded yet refined, and in both of these evolutions the students had moved away from generic, unidimensional conceptualizations.

Relationality is the fourth major way in which wellbeing literacy was seen to evolve from pre-intervention to post-intervention. The inclusion of relationships as part of students’ understanding of wellbeing significantly increased in both the deductive and inductive analyses. At post-intervention, students understood the bi-directional nature of relationships and wellbeing. They demonstrated an understanding that relationships are needed for their own wellbeing (e.g., “I play with my friend to be happy”) and that they can contribute to the wellbeing of others (e.g., “wellbeing is being kind, caring and showing love”). The wisdom of these students, that relationships are a key part of wellbeing, is reflected in decades of psychology research (e.g., Baumeister & Leary, 1995).

Self-kindness was a new code that emerged at time 2 and can be seen as a specific type of relationship with the self that has been shown to reduce psychological distress and improve mental health (Bluth et al., 2016; Stallman et al., 2018). The fact that this was not a code mentioned in students’ answers before the teacher intervention suggests that the positive intervention helped students develop an understanding of, and practices for, self-kindness. These are skills and practices that can be continued to be used by the students as they move through their school journey and into adulthood. The same can be said for many of the ways in which wellbeing literacy matured in these students from pre-intervention to post-intervention, including using their strengths, managing their emotions, drawing on their agency and investing in relationships – all of which will help students sustain positive mental health outcomes over the longer term. These results show the benefits of a positive education intervention in enhancing students’ wellbeing literacy.

**Implications**

According to Haddon et al. (2005, p. 5), wellbeing literacy is “not a capacity that is either present or absent in the individual, but rather is a potential in everyone that is not solely dependent upon the individual but also upon the social context in which the individual is located.” This idea is supported in the current study, which has shown that
wellbeing literacy in students became more detailed, strength-based, expanded and relational after teachers introduced wellbeing language and practices into the classroom. The study aligns with calls by Allison et al. (2020) and Ciarrochi et al. (2016) that positive education interventions need to be designed to positively change context as well as deliver positive content.

The words and descriptions provided by students in the current study can be used as a resource to improve what King et al. (2005, p. 96) refer to as “ecological validity” to assist teachers in the ways they converse with students about wellbeing, as well as assist researchers to design effective positive education interventions. For example, we call for the explicit use of student voice when designing such programs. As stated by Ben-Arieh (2010, p. 135), children’s daily life “is something that children know the most about.” Including students in the co-design of wellbeing programs and using student-generated language is an empowering process that, in itself, will build student wellbeing irrespective of the content delivered by the program (Mäkelä et al., 2014). Using students to help co-design the interventions also aligns with the theme of agency that was mentioned by approximately one-third of the students at post-intervention as playing an important role in wellbeing.

With regard to the “what” of the design, the current study suggests that students will respond to programs that cover topics such as emotions and enjoyment, mental state and coping, relationships and self-kindness. Moreover, the data suggests that strength-based approaches will be well received by students. The SEARCH framework was also shown to be an effective framework for the design of positive education intervention and students demonstrated that they were able to learn about the six SEARCH pathways and incorporate these into their language and understanding of wellbeing.

Limitations and Future Research

The current study addressed several gaps in the existing literature by deductively and inductively exploring the topic of wellbeing literacy in students. As the topic of wellbeing literacy is relatively new, the current study provides an important exploration into how students understand and talk about their own wellbeing following a teacher-based positive education intervention. However, the current study contained limitations to its generalizability.

First, there was no control group, which would have provided a more solid test of the degree to which the positive education intervention created changes in wellbeing literacy. For example, it may be argued that the evolution of wellbeing literacy seen in the current students has occurred as part of the natural maturation process for 11–13-year-olds over the eight-month time period. However, given the significant increase in SEARCH-specific language demonstrated at post-intervention, it seems reasonable to assume that the shifts in wellbeing literacy were more due to the positive education language and the practices introduced into classes during the intervention than naturally occurring age-related changes.

Second, the sample itself may have influenced the results. For example, the age range in this study was 11–13 and this might be an age group that is more or less receptive to teacher influence on wellbeing literacy compared to younger or older age groups. If this is the case, then the capacity for positive education interventions to create change in wellbeing literacy for students across different ages still needs to be evaluated. That being said, Waters (2021) examined the effect of a teacher-based positive education intervention in a K-12 (from kindergarten to 12th grade) school using teacher report, and age did not emerge as a theme that prevented or promoted the likelihood of wellbeing literacy being developed. Although the words and understanding of wellbeing literacy were age related, the capability to improve in wellbeing literacy was present across all ages. However, as this is only one study, further research is needed to examine whether and how age may influence a student’s ability to develop wellbeing literacy.

The limitations outlined above may restrict the generalizability of the results. However, it must be made clear that “generalizability” is not the core principle or goal to which qualitative research holds itself accountable (Given, 2008). Instead, external validity is assessed based upon the “confirmability” of the findings. Miles and Huberman (1994) argue that qualitative analysis that credible, defensible, and able to withstand alternative explanations is deemed as “confirmable. Given the ways in which the findings from our data support and extend past research, the student-centric way in which we obtained wellbeing literacy data, and the fact that we have explored alternative explanations, we are confident that the study findings are credible, defensible and warranted.
Notwithstanding, we call for replication of the findings in future samples using a variety of research designs and methods across a range of ages to confirm whether and how wellbeing literacy can be built up as a capability in schools.

**Conclusion**

Schools are playing an increasingly important role in society not only as academic institutions but also as wellbeing-enhancing institutions (Waters et al., 2017). The need for schools to foster wellbeing capabilities in students is paramount given the current pandemic crisis (Stewart et al., 2021) and the fact that research on prior pandemics reveals that mental illness spillover effects continue for some time after a pandemic is resolved (Sprang & Silman, 2010). One capability that may prove to be highly beneficial is that of wellbeing literacy. The way in which students understand and talk about their own wellbeing is an important predictor of mental health, yet only limited research has investigated how this capability can be promoted. The results of the current study show that training teachers in positive education and having them embed wellbeing language and practices into their classrooms helped to evolve student wellbeing literacy so that it became more detailed, strength based, expanded/multidimensional and relational. We hope that this study inspires future “youth voice” research in the field of positive education.

**Compliance with Ethical Standards**

**Ethical Standards**

All study procedures involving human participants followed institutional and/or national research committee ethical standards and the 1964 Helsinki declaration and its later amendments or comparable ethical standards.

**Author Contributions**

The authors developed the concept for this manuscript, carried out the literature search, critically analyzed the data, wrote the manuscript, and proofread it.

**Declaration of Conflicting Interests**

The author(s) declared no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

**Funding**

The author(s) received no financial support for the research, authorship, and/or publication of this article.

**Data Availability**

The datasets generated during and/or analyzed during the current study are available from the corresponding author on reasonable request.

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Received: October 13, 2021  
Accepted: November 6, 2021  
Published Online: November 23, 2021

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