What Constitutes Student Well-Being: A Scoping Review Of Students’ Perspectives

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Abstract
Student well-being has recently emerged as a critical educational agenda due to its wide-reaching benefits for students in performing better at school and later as adults. With the emergence of student well-being as a priority area in educational policy and practice, efforts to measure and monitor student well-being have increased, and so has the number of student well-being domains proposed. Presently, a lack of consensus exists about what domains are appropriate to investigate and understand student well-being, resulting in a fragmented body of work. This paper aims to clarify the construct of student well-being by summarising and mapping different conceptualisations, approaches used to measure, and domains that entail well-being. The search of multiple databases identified 33 studies published in academic journals between 1989 and 2020. There were four approaches to conceptualising student well-being found in the reviewed studies. They were: Hedonic, eudaimonic, integrative (i.e., combining both hedonic and eudaimonic), and others. Results identified eight overarching domains of student well-being: Positive emotion, (lack of) Negative emotion, Relationships, Engagement, Accomplishment, Purpose at school, Intrapersonal/Internal factors, and Contextual/External factors. Recommendations for further research are offered, including the need for more qualitative research on student well-being as perceived and experienced by students and for research to be conducted in a non-western context.

Keywords Domain · Eudaimonic · Hedonic · Scoping review · Student well-being

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1 Introduction

Promoting student well-being has recently emerged as a critical educational agenda for educational systems worldwide due to its wide-reaching benefits (Joing et al., 2020). Student well-being can be considered an enabling condition for successful learning in school and an essential outcome of 21st-century education (Govorova et al., 2020). Students with a higher sense of well-being perform better at school and later on as adults by gaining employment, leading a socially engaged life, and contributing to the nation (Cárdenas et al., 2022; O’Brien & O’Shea, 2017; Price and McCallum, 2016). Although the importance of student well-being has been recognised unequivocally (Tobia et al., 2019), researchers have not reached a shared understanding of what student well-being entails. Researchers, however, all agree that it is a multidimensional concept incorporating multiple domains (Danker et al., 2019; Soutter et al., 2014; Svane et al., 2019).

With the emergence of student well-being as a priority area in educational policy and practice, efforts to measure and monitor student well-being have increased (Svane et al., 2019), along with the number of student well-being domains being proposed. Presently, a lack of consensus exists about what set of domains is appropriate to investigate and understand student well-being, resulting in a fragmented body of work (Danker et al., 2016; Svane et al., 2019). Such a lack of consensus is a significant barrier to developing, implementing, and evaluating programs to improve students’ well-being. The proliferation of proposed domains is often due to the variation in conceptualising the construct. Different conceptualisations lead to the selection of different domains.

Historically, the concept of well-being has been built upon two distinct philosophical perspectives: the hedonic and eudaimonic views. Those who favour a hedonic view conceptualise well-being as the state of feeling good and focus on cognitive and affective domains (Keyes & Annas, 2009). The cognitive domain represents satisfaction with school and life, whereas, the affective domain represents school-related positive (e.g., joy) and negative affect (e.g., anxiety). Proponents of the eudaimonic view often conceptualise well-being as functioning well at school and focus on a range of domains representing optimal student functioning, such as school engagement (Thorsteinsen & Vittersø, 2018). However, neither a hedonic nor eudaimonic view alone can comprehensively capture or assess the complex nature of student well-being (Thorsteinsen & Vittersø, 2018). This shortcoming might result in excluding important domains in evaluating the construct. An integrative mapping of available domains in the existing literature is needed to develop a more holistic measure of student well-being at school.

Differences in proposed domains are not entirely due to differences in underpinning theory. Domains representing similar concepts are often labelled differently in different studies, i.e., ‘relating to peers’ is labelled as ‘classroom connectedness’ by Mameli et al. (2018), whereas Lan and Moscardino (2019) labelled it as ‘peer relationship’. This variation muddies the measuring and monitoring of the construct, making it difficult to compare the results from study to study, build on the work of others, and ensure the inclusion of the domains that matter. There is a need for an
integrative understanding of the domains available in the existing literature to target
the most critical domains for holistic student well-being and provide effective inter-
vention to support the domains in which students need the most support. It is also
more critical than ever before, as currently, the well-being of school-aged students
is grossly affected by the global pandemic COVID-19 (Dean Schwartz et al., 2021;
Golberstein et al., 2019; Van Lancker & Parolin, 2020). Therefore, it is timely to
conduct an integrative review to map the domains of student well-being to assist in
measuring the construct and targeting supports and resources to bolster it.

Although past efforts have reviewed the existing literature on student well-being,
their purposes have varied. Fraillon (2004) sought to identify the domains of student
well-being to develop a reliable instrument for measuring the construct. Fraillon’s
identified domains favoured the eudaimonic viewpoint. She operationalised student
well-being as their effective student functioning in school. Later, Noble et al. (2008)
focused on mapping pathways (e.g., strength-based approach) to achieving student
well-being. However, it is ambitious to achieve student well-being leaving aside the
question of what constitutes the construct of student well-being. Danker et al. (2016)
reviewed the existing literature to locate domains specifically relevant to the well-
being of students with autism. More recently, Govender et al. (2019) did a system-
atic review on South African young people’s well-being, but their review focused on
well-being in a general life context. None of the above studies sought to review the
domains or indicators of student well-being, mainly focusing on the school context
and exploring students’ perspectives. The limit in the scope of the previous reviews
indicates the gap for an integrative review to map the body of evidence on domains
of student well-being. This review aims to map students’ perspectives regarding the
domains of student well-being available in the existing literature to provide an inte-
grative understanding of the construct. The following research questions guide the
study:

i. How has student well-being been conceptualised in previous studies?
ii. What approaches have been taken to measure student well-being?
iii. What domains of student well-being have been perceived by the students in
previous studies?

2 Methods

This study follows a scoping review methodology allowing for a broader and more
exploratory approach to mapping a topic of interest (Arksey & O’Malley, 2005; Levac
et al., 2010). We chose a scoping review as it is suitable for identifying factors related
to a concept (Munn et al., 2018). This review is informed by the methodological frame-
work developed by Arksey & O’Malley (2005), which adds methodological rigour to
systematic reviews. It follows a step-by-step, rigorous, transparent, and replicable pro-
cedure for searching and summarising the literature to ensure the reliability of the find-
ings (Arksey & O’Malley, 2005; Levac et al., 2010).
This scoping review included the following stages: (a) identifying relevant studies through a search strategy; (b) selecting the studies that meet inclusion criteria; (c) assessing the quality of data; and (d) charting the data, summarising, and reporting the results. Scoping reviews do not necessarily involve data quality assessment, but we carried out this step to ensure the quality of research evidence included in the domain mapping.

2.1 Identifying Relevant Studies

Given the broader aim and coverage of a scoping review, a comprehensive approach was required to locate the relevant studies, to answer the research questions. The search involved three key sources: electronic databases, hand-searching key journals in the field, and ancestral searches of relevant article reference lists. For manageability reasons, the scoping review did not include grey literature and restricted the search to articles written in English. The identification of relevant studies is not linear but an iterative process. Hence, we adopted a reflexive, flexible, and broad approach to defining, redefining, changing, and adding search terms to generate comprehensive coverage. The initial search terms and relevant electronic databases were identified through consultations between the first author and a research librarian at the authors’ institution. The search strategy and results were informed by the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (Moher et al., 2009).

A keyword search was conducted using five electronic databases: ProQuest, PsycINFO, Scopus, Taylor & Francis Online, and Web of Science. Boolean operators were used to conducting the searches (see Table 1 for search terms). All the database searches were limited to English-language peer-reviewed articles, with abstracts published from November 1989—2020. The start date represents the enactment of the United Nations Convention on the Rights of the Child (United Nations [UN], 1989) when the concept of children’s well-being gained increasing international attention.

A hand search was conducted of eight journals from our database search that commonly publish research on student well-being at school to locate potentially relevant articles missed in the database search (Levac et al., 2010). The eight journals included: Child Indicators Research, Social Indicators Research, Journal of Psychoeducational Assessment, Journal of Youth and Adolescence, Journal of Happiness Studies, School Mental Health, School Psychology Review, and School Psychology Quarterly. As a final step for locating relevant studies, a backward and forward citation search was conducted with the publications identified from the database and a hand search for full-text assessment (Briscoe et al., 2020; Wright et al., 2014).

2.2 Selecting the Studies

The initial literature search yielded a total of 1,205 articles for further screening. A total of 410 duplicate articles were removed (see Fig. 1). The authors devised inclusion and exclusion criteria to ensure that only articles relevant to the aim of the scoping review were selected (see Table 2). The titles and abstracts of the 795 novel articles were screened against the inclusion and exclusion criteria.
### Table 1 Examples of Search Terms

| Well-being                                                                 | Student                          | School          | Domain                                                                 |
|---------------------------------------------------------------------------|----------------------------------|-----------------|------------------------------------------------------------------------|
| (Well-being) OR (well-being) OR (subjective well-being) OR (psychological well-being) OR (academic well-being) OR (Mental well-being) OR (Social well-being) OR (wellness) OR (physical health) OR (mental health) OR (happiness) OR (thrive*) OR (flourish*) OR (joy) OR (life satisfaction) OR (satisfaction with life) OR (good life) OR (positive experience) | Student OR pupil OR adol* OR youth OR child* | School | Aspects OR component domain OR dimension OR elements OR factor OR indicator |
independently by the first and second authors, resulting in 45 articles retained for full-text screening. The full text of the 45 articles was examined against the
| Inclusion criteria                                                                 | Exclusion criteria                                                                 |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| **Publication type**                                                             |                                                                                   |
| Articles published in peer-reviewed journals                                    | Not peer-reviewed, book chapter, reports                                           |
| **Language**                                                                    |                                                                                   |
| Written in English                                                              | Not written in English                                                            |
| **Study type**                                                                  |                                                                                   |
| Empirical research article (can include quantitative, qualitative, or mixed methods studies) | Opinion pieces, position papers, theory, literature or systematic reviews, and meta-analysis |
| **Research participants**                                                        |                                                                                   |
| Participants studying in primary or secondary school or equivalent              | Participants not studying in primary or secondary school or equivalent              |
| **Research focus**                                                              |                                                                                   |
| Focusing on student well-being                                                   | About adult (e.g., teachers, parents, and educators) well-being                    |
| Studies that have specific reference to student well-being in the school context | About well-being in general, not specifically related to the school context         |
| About students’ perspective on their well-being at school                        | About specific aspects of student well-being (e.g., academic well-being)           |
| **Time-period**                                                                 |                                                                                   |
| November 1989- 2020 for electronic database                                     | Before 1989                                                                       |
inclusion criteria independently by the first and second authors to assess eligibility resulting in the exclusion of 22 of them.

As a final step, the authors subjugated the 23 retained articles for backward and forward citation searching independently by the first and second authors yielding another ten relevant articles resulting in 33 papers included in the data charting and extraction stage. Cohen’s kappa coefficient (κ) with 95% confidence intervals was calculated to determine the interrater reliability score for screening stages: κ = 0.82 for the first stage, 0.85 for the second stage, and 0.89 for the third stage, which can be interpreted as almost perfect agreement (McHugh, 2012). The third author resolved any disagreement between the first and second authors.

2.3 Assessing the Quality of the Data

We assessed the quality of the included articles using the Standard Quality Assessment Criteria for Evaluating Primary Research Papers from a Variety of Fields (Kmet et al., 2004). Kmet et al. (2004) proposed two checklists: one for quantitative and the other for qualitative studies. Example assessment criteria for the quantitative studies included: the study objectives/research questions, justification and detail reported in the study design, and analytic methods. Example assessment criteria for the qualitative studies included connection to a theoretical framework/wider body of knowledge, clear description and systematic data collection and analysis method, credibility, and reflexivity of the account.

All 33 articles were independently scored by the first and second authors based on three criteria — whether they met the tool’s assessment criteria, met them only partially, or not at all. The yielded scores for each criterion were summated and converted into percentages to allow comparison. The quality scores ranged from 77—100%, which can be interpreted as strong according to McGarty and Melville (2018), indicating a high quality of research evidence. The inter-rater reliability of this process was high at κ = 0.92 (Cohen, 1960; McHugh, 2012). The third author resolved any disagreement.

2.4 Charting Data, Summarising, and Reporting Results

This step involves extracting the information relevant to the scoping review from the selected articles. A structure template was used to extract information as follows: author details, year of publication, characteristics of the sample (size, age, and gender), study location, research design, measure/data collection instrument and domains or indicators of well-being (Levac et al., 2010). The first and second authors coded the studies independently with a high level of agreement (κ = 0.89) (Cohen, 1960; McHugh, 2012).
3 Results

3.1 Overview of the Selected Studies

About 58,910 students participated in the studies, ranging from 16 to 10,913. Most of the student participants were from regular primary or secondary schools. However, participants in two studies, Mameli et al. (2018) and Van Petegem et al. (2008), were from technical or vocational secondary schools. The age of the participants ranged from 6 to 19 years. Most \((n=16)\) of the studies focused on post-primary grade levels, with half including participants from middle school levels. In contrast, only two studies, one from China (Lan & Moscardino, 2019) and the other from Ireland (Miller et al., 2013), included participants only from primary grade levels. Five of the studies had participants from both primary and secondary grade levels. About one-third of the studies \((n=10)\) did not report any information regarding participating students’ grade levels. The number of female and male student participants was reported in 16 studies, with 53.48% being female (see Table 3). One study focused on students with autism enrolled in regular schools (Danker et al., 2019). Two studies were multi-perspective, including students, parents, principals, and teachers (Anderson & Graham, 2016; Tobia et al., 2019).

European countries dominated the research location from the 33 studies included in the analysis, accounting for 18 out of the 33 studies (see Table 3). There were eight studies from China and three from Australia. Three studies were multi-country: Opre et al. (2018), Hascher (2007), and Donat et al. (2016). The dates of the studies ranged from 2004 to 2020, with 26 studies published since 2015. More than two-thirds were published within the last five years, indicating growing student well-being research popularity.

3.2 Approaches to Assessing Student Well-Being

The approaches to measuring student well-being in the reviewed studies were quantitative, qualitative, and mixed methods. Quantitative research methods dominated the research in this review, with 27 of the 33 studies solely using this method. In 30 of the 33 studies, self-reported survey measures were used, using cross-sectional and longitudinal designs (see Table 3). Three studies followed a qualitative, and one study followed a mixed-methods approach. Hascher (2007) and López-Pérez and Fernández-Castilla (2018) used quantitative and qualitative data collection but did not explicitly follow a mixed-methods study design.

Most of the quantitative measurement instruments used in the articles reviewed here were multidimensional, with sub-scales consisting of multiple items derived from one or more existing well-being scales. For example, McLellan and Steward (2015) adapted items from the European Social Survey (Huppert et al., 2009) for use with young people in school settings and drawing on Every Child Matters (Department for Education & Skills, 2003) from the UK. Few studies used multidimensional instruments that developed scales dedicated explicitly to measuring student...
| Author                        | Sample                                                                 | Study location | Study design                           | Measure/Data collection instrument                                                                 |
|-------------------------------|------------------------------------------------------------------------|----------------|----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Anderson and Graham (2016)    | 9,268 primary and secondary school students, Grade: not reported, age: 6-18 years, % of male/female: not reported, 18 principals, age: not reported, % of male/female: not reported, 71 teachers, age: not reported, % of male/female: not reported, 707 staff, age: not reported, % of male/female: not reported | Australia      | Mixed methods                          | Semi-structured interview schedule, online survey                                                   |
| Arslan and Renshaw (2018)     | 374 students, Grades:9–12, age: 14–19 years, 55.1% female             | Turkey         | Quantitative approach, self-report cross-sectional survey | Student Subjective Well-being Questionnaire (Renshaw, 2015)                                          |
| Danker et al. (2019)          | 16 students, Grades: 7–11, age: 13–17 years, % of male/female: not reported | Australia      | Qualitative approach, semi-structured interview, photovoice, and participatory research            | Semi-structured interview schedule                                                                  |
| Donat et al. (2016)           | 1,273 German students, Grade: not reported, age: 13–17 years, 51.1% female, 519 Indian school students, Grade: not reported, age: 12–17 years, 58.8% female | Germany and India | Quantitative approach, self-report cross-sectional survey | Student Well-Being Questionnaire (Hascher, 2007)                                                   |
| Engels et al. (2004)          | 2,054 secondary school students, Grade: not reported, age: not reported, % of male/female: not reported | Flanders (Belgium) | Quantitative approach, self-report cross-sectional survey | Well-being Questionnaire (Engels et al., 2004)                                                      |
### Table 3 (continued)

| Author             | Sample                                                                 | Study location                                                                 | Study design                                                                 | Measure/Data collection instrument                                      |
|--------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Hascher (2007)     | 2,014 students, Grades: 7–9, age: 13–15 years, % of male/female: not reported | Germany, The Czech Republic, The Netherlands, and Switzerland                      | Both quantitative and qualitative approaches, self-report cross-sectional survey, and emotional diary | Student Well-Being Questionnaire (Hascher, 2007)                          |
| Hidayah et al. (2016) | 42 secondary school students, Grade: not reported, age: not reported, % of male/female: not reported | Indonesia                                                                     | Qualitative, focus group discussion                                           | Focus group discussion schedule                                          |
| Holfve-Sabel (2014) | 1,540 students, Grade: 6, age: 12–13 years, % of male/female: not reported | Sweden                                                                         | Quantitative approach, self-report cross-sectional survey                      | Our Class (adapted by Holfve-Sabel & Gustafsson, 2007)                   |
| Joing et al. (2020) | 2,028 students, Grade: not reported, age: 11–16 years, 49% female    | France                                                                         | Quantitative approach, self-report cross-sectional survey                      | The Scale of Positive and Negative Experience (Diener et al., 2010)      |
| Kern et al. (2015)  | 516 students, Grade: not reported, age: 13–18 years, all male         | Australia                                                                      | Quantitative approach, self-report cross-sectional survey                      | The EPOCH Measure of Adolescent Well-being (Kern et al., 2016), PANAS-C (Laurent et al., 1999) |
| Kiuru et al. (2020) | 548 students, Grades: 6–7, age: 11–13, 54% female                    | Finland                                                                        | Quantitative approach, self-report cross-lagged longitudinal survey           | Health Behaviour in School-aged Children Study (Currie et al., 2012)      |
| Konu et al. (2015)  | 10,913 students, Grades: 7–9, age: 13–15 years, % of male/female: not reported | Finland                                                                        | Quantitative approach, self-report cross-sectional survey                      | School Well-being Profile (Konu & Lintonen, 2006)                       |
| Author                                | Sample | Study location | Study design                        | Measure/Data collection instrument                                                                 |
|---------------------------------------|--------|----------------|-------------------------------------|----------------------------------------------------------------------------------------------------|
| Lan and Moscardino (2019)             | 440 students, Grades: 4–6, age: 10–13, % of male/female: not reported | China                        | Quantitative approach, self-report cross-sectional survey | Children’s Loneliness and School Dissatisfaction Scale (Asher et al., 1984), Multidimensional Students’ Life Satisfaction Scale (Huebner, 1994), Student Engagement Scale (Lam et al., 2016) |
| Liu et al. (2016)                     | 2,158 students, Grade: not reported, age: 8–19 years, 52.6% female | China                        | Longitudinal survey                             | Brief Adolescents’ Subjective Well-Being in School (Tian et al., 2015a, 2015b) |
| López-Pérez and Fernández-Castilla (2018) | 104 children, Grade: not reported, age: 9–10 years, 49% male and 113 adolescents, Grade: not reported, age: 15–16, 45% female | Spain                        | Children’s written accounts, self-report cross-sectional survey | School Happiness Single-Item Scale (Van De Wetering et al., 2010) |
| Mameli et al. (2018)                  | 540 students, Grade: not reported, age: 13 -17 years, 43.5% female | Italy                        | Quantitative approach, self-report cross-sectional survey | Emotional engagement subscale of Student Engagement Scale (Lam et al., 2014) & The Connected Classroom Climate Inventory (Dwyer et al., 2004) |
| Mascia et al. (2020)                  | 215 students, Grade: not reported, mean age: 12.7 years, % of male/female: not reported | Italy                        | Quantitative approach, self-report cross-sectional survey | My life as a Student (Nota et al., 2011) |
| McLellan and Steward (2015)           | 5,170 students, Grade: not reported, age: 7–16 years, % of male/female: not reported | England                      | Quantitative approach, self-report cross-sectional survey | How I Feel About Myself and School (McLellan & Steward, 2015) |
Table 3 (continued)

| Author                  | Sample                                                                 | Study location      | Study design                                         | Measure/Data collection instrument                                                                 |
|-------------------------|------------------------------------------------------------------------|---------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Miller et al. (2013)    | 1,081 student primary school students, Grade: not reported mean age 9.34 years, 47.2% female | Northern Ireland    | Quantitative approach, self-report cross-sectional survey | Self-Perception Profile for Children: Global Self Worth subscale (Harter, 2012), KIDSCREEN questionnaire (The KIDSCREEN Group Europe, 2006), Attitudinal Scale (Pell & Jarvis, 2010) |
| Morinaj and Hascher (2019) | 508 students, Grades: 7–8, age: 13–14 years, % of male/female: not reported | Switzerland         | Quantitative approach, cross-lagged, longitudinal survey | Student Well-being Questionnaire (Hascher, 2007)                                                      |
| Opre et al. (2018)      | 2,253 adolescents, Grade: not reported, age: 13–19 years, 77% female | Romania             | Self-report cross-sectional survey                   | Adolescence Subjective School Well-Being Scale (Opre et al., 2018)                                   |
| Pietarinien et al. (2014) | 170 students, Grade: 5 and 7, age: not reported 55% female             | Finland             | Quantitative approach, self-report cross-sectional survey | Emotional and Cognitive Engagement and School-related Well-being (Pietarinien et al., 2014)             |
| Renshaw et al. (2015)   | 1,002 students, Grades 6–8, age: not reported, % of male/female: not reported | USA                 | Quantitative approach, self-report cross-sectional survey | Student Subjective Well-being Questionnaire (Renshaw, 2015)                                          |
| Scrimin et al. (2016)   | 61 students, Grade: not reported, age: 13–14 years, 43.8% female     | Italy               | Quantitative approach, self-report cross-sectional survey | School-related anxiety subscale class of the AMOS 8–15 (Cornoldi et al., 2005), Class climate subscale of the AMOS 8–15 (Cornoldi et al., 2005), School Situation Survey (Helms & Gable, 1990) |
| Author                  | Sample                                                                 | Study location | Study design                                         | Measure/Data collection instrument |
|-------------------------|------------------------------------------------------------------------|----------------|------------------------------------------------------|------------------------------------|
| Soutter (2011)          | 17 secondary school students, Grade: not reported, age: not reported, % of male/female: not reported | New Zealand    | Qualitative approach, focus group discussion,        | Group activities and Observation    |
| Tobia et al. (2019)     | 1,038 students, Grades: 3–8, age: 8.5—13.6 years, % of male/female: not reported, 942 parents, age: not reported, % of male/female: not reported | Italy          | Quantitative approach, self-report cross-sectional survey | Questionnaire on School Well-being (Tobia & Marzocchi, 2015) |
| Tian et al. (2013)      | 361 students, Grades: 7–8 and 10–11, age: 12–17 years, % of male/female: not reported | China          | Quantitative approach, self-report cross-sectional survey | Adolescent’s School Well-Being Scale (Tian, 2008) |
| Tian et al. (2014)      | 576 students, Grade: 7–8 and 10–11, mean age: 15 years, 58% female | China          | Quantitative approach, self-report longitudinal survey | Adolescents’ School-Related Subjective Well-Being Scale (Tian, 2008) |
| Tian et al. (2016)      | 1,476 students, Grades: 7–8 and 10–11, age: 11–18 years, % of male/female: not reported | China          | Quantitative approach, self-report cross-sectional survey | Adolescents’ School-Related Subjective Well-Being Scale (Tian, 2008) |
| Tong et al. (2018)      | 1,369 students, Grade: 10, mean age 14.29 years, % of male/female: not reported | China          | Quantitative approach, self-report cross-sectional survey | Stress Level in School Scale (Tong et al., 2018) |
| Van Petegem et al. (2008)| 594 students from technical and vocational secondary schools, Grade: 9, mean age 14.35, 36.4% female | Flanders (Belgium) | Quantitative approach, self-report cross-sectional survey | The Well-being Inventory of Secondary Education (WISE) (Engels et al., 2004) |
| Author          | Sample | Study Location       | Study Design                           | Measure/Data collection instrument                                      |
|-----------------|--------|----------------------|----------------------------------------|---------------------------------------------------------------------------|
| Wong and Siu (2017) | 221 students, Grades: 7–11, 38% female | Hong Kong and China | Quantitative approach, self-report cross-sectional survey | 1 or 2 single items (e.g. 1 feel happy in school) |
| Yao et al. (2018) | 4,475 students, Grades: 3–9, 50% female | China | Quantitative approach, self-report cross-sectional survey | Subjective Well-Being Questionnaire (Opdenakker & Damme, 2000) |
well-being at school instead of adapting general well-being scales within the school context (e.g., Anderson & Graham, 2016; Engels et al., 2004; Hascher, 2007; Tian, 2008). Only López-Pérez and Fernández-Castilla (2018) and Wong and Siu (2017) used single items to measure school happiness.

Most instruments were developed from an adult perspective, that of the researchers. However, students were consulted in four studies before creating the scale items. Anderson and Graham (2016) set up a well-being advisory group of students, teachers, and other stakeholders to elicit their conceptualisations of well-being and their conception of an imaginary school. Opre et al. (2018) conducted separate focus group interviews with adolescents, parents, and teachers to identify and operationalise the sub-components of student well-being. Engels et al. (2004) used panel discussions with secondary students to identify the aspects of school and classrooms as learning environments that students perceived were relevant to their well-being. Kern et al. (2015) asked students and pastoral staff about what they wanted to know about their well-being as an indicator of what was essential for student well-being. Feedback on the suitability of items from students and teachers was sought by McLellan and Steward (2015) after they derived items from policy and other scales. Seeking stakeholder feedback enhances the content validity of instruments (Stalmeijer et al., 2008).

Most instruments reviewed here had acceptable reliability and good model fit. About 24 of the 30 self-report instruments had reliability ranging from Cronbach’s alpha $\alpha = 0.70$ to 0.95: an acceptable value for scale reliability (Hair et al., 2018). Most studies used factor analysis to determine the factor structure of student well-being instruments, with two exceptions. Mameli et al. (2018) and Tong et al. (2018) developed sub-scales to measure student well-being indicators derived from operationalising the construct.

In the three qualitative studies, stakeholder inputs provided a deeper insight into student well-being. Soutter (2011) used drawing, walk-about discussion, and small-group work to elicit students’ understanding of well-being at school. She also developed a conceptual framework comprising domains of student well-being based on a thorough transdisciplinary literature review on well-being which she used to analyse and interpret data in her study. Hidayah et al. (2016) conducted focus group discussions using unstructured and open-ended questions with 42 secondary students in Indonesia following the School Well-being Model developed by Konu and Lintonen (2006). Danker et al. (2019) adopted an advisory participatory research method and a grounded theory approach. They used semi-structured interviews and photovoice to gain insight into well-being experiences, barriers, and facilitators of well-being for students with autism.

### 3.3 The Conceptualisation of Student Well-Being

There were four approaches to conceptualising student well-being found in the reviewed studies. They were hedonic, eudaimonic, integrative (i.e., combining both hedonic and eudaimonic), and other (see Table 4). All the reviewed studies, irrespective of their conceptualisation approach, represented well-being in terms

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| Example studies                          | Approach of conceptualisation | The conceptualisation of student well-being                                                                 | Domains identified                                                                 |
|-----------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Engels et al. (2004); Van Petegem et al. (2008); Hascher (2007); Donat et al. (2016); Morinaj et al. (2018) | Hedonic                        | “Well-being at school (of pupils in secondary education) expresses a positive emotional life which is the result of harmony between the sum of specific environmental factors on the one hand and the personal needs and expectations of pupils vis-a-vis the school on the other” (Engels et al., 2004, p.128) | Perception and satisfaction in the classroom and at school, Perception and satisfaction with study pressure and curriculum, Behaviour, Perception and satisfaction with friends, Satisfaction with teaching method and course content, Satisfaction with discipline and participation, Satisfaction with interpersonal relationships with teacher and support staff, Satisfaction with administrative staff, Positive attitudes toward school, Enjoyment in school, Positive academic self-concept, Worries in school, Physical complaints in school, Social problems in school |
| Van Petegem et al. (2008)               | Hedonic                        | As above                                                                                                   | Satisfaction with teaching method and course content, Satisfaction with discipline and participation, Satisfaction with interpersonal relationships with teacher and support staff, Satisfaction with administrative staff, Positive attitudes toward school, Enjoyment in school, Positive academic self-concept, Worries in school, Physical complaints in school, Social problems in school |
| Hascher (2007); Donat et al. (2016);   | Hedonic                        | “Students’ well-being in school is an emotional experience characterised by the dominance of positive feelings and cognitions towards school, persons in school and the school context in comparison to negative feelings and cognitions towards school life” (Hascher, 2003, p. 129) |                                                                                      |
| Morinaj et al. (2018)                  |                               |                                                                                                             |                                                                                      |
| Example studies                      | Approach of conceptualisation | The conceptualisation of student well-being                                                                 | Domains identified               |
|--------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------|
| Joing et al. (2020)                  | Hedonic                      | “…the positive or negative quality of the experiences a student has in the various parts of the school premises (the affective component of subjective well-being) and also the satisfaction found in being in the school in a general way (the cognitive component)” (Joing et al., 2020, p.1472) | Overall life satisfaction        |
|                                       |                              |                                                                                                           | Positive affect                  |
|                                       |                              |                                                                                                           | Negative affect                  |
| Kiuru et al. (2020)                  | Hedonic                      | Student well-being is the reflection of students’ emotional experiences at school                           | School satisfaction and School stress |
| Pietarinen et al. (2014)             | Hedonic                      | The presence of positive affect manifests subjective well-being at school (e.g., thriving in school) and the absence of negative affect (e.g., anxiety) at school | Cynicism                          |
| Tian et al. (2013); Tian et al. (2014); Tian et al. (2016); Liu et al. (2016) | Hedonic                      | “The ways students subjectively evaluate (e.g., school satisfaction) and emotionally experience (e.g., positive and negative affect) their school lives (Tian et al., 2014, p.356) | School satisfaction, Positive affect, Negative affect |
| Scrimin et al. (2016)                | Hedonic                      | “…the quality of school conditions, and a positive subjective, emotional, and cognitive evaluation of school reality (Scrimin et al., 2016, p.280) | School-related anxiety            |
| Tian et al. (2013); Tian et al. (2014); Tian et al. (2016); Liu et al. (2016) | Hedonic                      |                                                                                                           | Perception of class climate      |
| Scrimin et al. (2016)                | Hedonic                      |                                                                                                           | School-based stress              |
| Tong et al. (2018)                   | Hedonic                      | Student well-being is conceptualised as the absence of negative affect and psychopathology                  | Students’ stress                 |
|                                       |                              |                                                                                                           | Depressive symptoms              |
| Example studies                  | Approach of conceptualisation | The conceptualisation of student well-being                                                                 | Domains identified                                                                 |
|----------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Mascia et al. (2020)             | Hedonic                      | Students’ satisfaction (cognitive evaluation) in several aspects of school life                            | Satisfaction with school experience                                                  |
|                                  |                              |                                                                                                           | Satisfaction with opportunities to make an autonomous decision                      |
|                                  |                              |                                                                                                           | Satisfaction with relationships with classmates                                     |
|                                  |                              |                                                                                                           | Satisfaction with current living conditions                                         |
|                                  |                              |                                                                                                           | Satisfaction with family relationships                                              |
|                                  |                              |                                                                                                           | Satisfaction with praise received when due                                          |
| Yao et al. (2018)                | Hedonic                      | Satisfactory school life for students include (1) positive affect for their studies and school (e.g., homework, learning task, academic ability and (2) interpersonal relationships at school | Satisfaction with help availability                                                 |
|                                  |                              |                                                                                                           | Academic self-concept                                                                |
|                                  |                              |                                                                                                           | Motivation toward learning tasks                                                    |
|                                  |                              |                                                                                                           | Interest in learning tasks                                                          |
|                                  |                              |                                                                                                           | Attentiveness in the classroom                                                       |
|                                  |                              |                                                                                                           | Well-being at the school                                                             |
|                                  |                              |                                                                                                           | Relationship with teachers                                                           |
|                                  |                              |                                                                                                           | Social integration in the class                                                      |
|                                  |                              |                                                                                                           | Attitude to homework                                                                 |
| Arslan and Renshaw (2018); Renshaw et al. (2015) | Eudaimonic                  | Students’ self-appraisals of positive functioning at school                                               | Joy of Learning (positive emotion and engagement)                                    |
|                                  |                              |                                                                                                           | School connectedness (relationships)                                                 |
|                                  |                              |                                                                                                           | Educational purpose (meaning)                                                        |
|                                  |                              |                                                                                                           | Academic efficacy (accomplishment)                                                   |
| Example studies          | Approach of conceptualisation | The conceptualisation of student well-being                                                                 | Domains identified                                                                 |
|-------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Holfve-Sabel (2014)     | Eudaimonic                    | Students’ self-appraisals of academic and social functioning at school                                        | Students’ Learning                                                                |
|                         |                               |                                                                                                             | Students’ Judgement of Teacher-Student Relationship                                 |
|                         |                               |                                                                                                             | Social Relationships in Classrooms                                               |
| Danker et al. (2019)    | Integrative (Both hedonic and eudaimonic) | Student well-being consists of four domains: Academic well-being (eudaimonic), social well-being (eudaimonic), emotional well-being (hedonic), and well-becoming (eudaimonic) | Academic well-being                                                              |
|                         |                               |                                                                                                             | Social well-being                                                                  |
|                         |                               |                                                                                                             | Emotional well-being                                                              |
|                         |                               |                                                                                                             | Well-becoming                                                                     |
| McLellan and Steward(2015) | Integrative (Both hedonic and eudaimonic) | Life satisfaction and negative emotion refer to hedonic, and perceived competence and interpersonal relationship refer to eudaimonic well-being | Life satisfaction                                                                 |
|                         |                               |                                                                                                             | Perceived competence                                                              |
|                         |                               |                                                                                                             | Interpersonal relationship                                                         |
|                         |                               |                                                                                                             | Negative emotion                                                                   |
| Mameli et al. (2018)    | Integrative (Both hedonic and eudaimonic) | Emotional engagement refers to hedonic and classroom connectedness refers to eudaimonic well-being | Emotional engagement                                                              |
|                         |                               |                                                                                                             | Classroom connectedness                                                            |
| Opre et al. (2018)      | Integrative (Both hedonic and eudaimonic) | Student well-being is students’ self-appraisal of functioning successfully in school                          | Identification with school                                                         |
|                         |                               |                                                                                                             | Learning and personal development                                                |
|                         |                               |                                                                                                             | Safety                                                                           |
|                         |                               |                                                                                                             | Relationship with colleagues                                                       |
|                         |                               |                                                                                                             | Relationship with teachers                                                         |
|                         |                               |                                                                                                             | Emotional well-being                                                              |
|                         |                               |                                                                                                             | Relationship with family                                                           |
| Example studies                          | Approach of conceptualisation | The conceptualisation of student well-being                                                                 | Domains identified                                                                 |
|-----------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Tobia et al. (2019)                     | Integrative (Both hedonic and eudaimonic) | Student well-being includes psychological, cognitive, and social components                                 | Students’ gratification obtained by school results, Emotional attitude towards school, Self-efficacy, Relationship with teachers and classmates |
| Lan and Moscardino (2019)               | Integrative (Both hedonic and eudaimonic) | Here, school satisfaction refers to hedonic, whereas learning engagement and peer relationship refer to eudaimonic well-being | Learning engagement, Satisfaction with peer relationship, School satisfaction          |
| López-Pérez and Fernández-Castilla (2018) | Integrative (Both hedonic and eudaimonic) | Here enjoyment refers to hedonic well-being, and the rest of the domains relate to eudaimonic               | Being with friends, Being praised, Getting good grades, Learning, Enjoyment, Helping |
| Miller et al. (2013)                    | Integrative (Both hedonic and eudaimonic) | Self-esteem, peer, and parent relation refer to eudaimonic well-being. Enjoyment of education and psychological health refers to hedonism | Self-esteem, Psychological health, School environment, Enjoyment of education, Peer relationships, Parent relations |
| Example studies                                  | Approach of conceptualisation | The conceptualisation of student well-being                                                                 | Domains identified                                                                 |
|-------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Wong and Siu (2017)                              | Integrative (Both hedonic and eudaimonic)                      | School life satisfaction refers to hedonic well-being. Academic satisfaction and self-perceived popularity refer to eudaimonic well-being | School life satisfaction, Academic satisfaction, Students' self-perceived popularity |
| Kern et al. (2015)                               | Integrative (Both hedonic and eudaimonic)                      | Positive emotion, depression and anxiety are hedonically aligned, whereas the other dimensions reflect a eudaimonic view | Positive emotion, Engagement, Relationship, Accomplishment, Depression, Anxiety    |
| Soutter (2011)                                   | Integrative (Both hedonic and eudaimonic)                      | Feeling and thinking reflect the hedonic view, whereas the other domains are related to the eudaimonic view  | Having, Being, Relating, Thinking, Feeling, Functioning, and Striving             |
| Konu et al. (2015); Hidayah et al. (2016)        | Other                                                         | Well-being is viewed as a state resulting from satisfying needs, categorised as having, loving, and being     | School conditions (Having), Social relationships (Loving), Means for self-fulfilment (Being), Health status (Having) |
| Anderson and Graham (2016)                       | Other                                                         | The three aspects of recognition are: cared for, respected, and valued, which are integral to student well-being | Being listened to, Having a say, Having rights, Being respected                   |
of different indicators: those aspects needed to ensure a good level of student well-being.

A hedonic view was evident in 16 of the 33 studies (See Table 4). These studies mainly adopted Diener’s (1984) theory of subjective well-being within the domain-specific context of school (e.g., Liu et al., 2016). Hedonic-aligned definitions tended to be relatively homogeneous, with researchers defining student well-being as the subjective, cognitive, positive appraisal of school life that emerges from the presence of positive feelings such as happiness and the absence of negative feelings such as worry. Both the cognitive (e.g., school satisfaction) and affective components (e.g., joy) were evident. The connotation of positive feelings about school was common, with some defining positive feelings as the harmony between student characteristics and the characteristics of the school (e.g., Engels et al., 2004).

Three studies reflected eudaimonic views and conceptualised student well-being as functioning effectively within the school context (See Table 4). There was greater variation in how the concept was defined, with effective functioning represented as school connectedness, engagement, educational purpose, and academic efficacy (Arslan & Renshaw, 2018). The reviewed studies using eudaimonic aligned definition mainly followed Ryff (1989)’s Psychological well-being theory which conceptualises well-being as a psychological phenomenon comprising six dimensions: self-acceptance, positive relations with others, autonomy, environmental mastery, purpose in life, and personal growth. However, none of the reviewed studies included all the six dimensions of eudaimonic well-being. For example, Holfve-Sabel (2014) focuses on learning and positive relationships.

Eleven studies took an integrative approach. They combined hedonic and eudaimonic views to conceptualise student well-being (See Table 4). Most of these studies provided an ad hoc definition of student well-being based on different indicators, including hedonic and eudaimonic aspects. For instance, Mameli et al. (2018) represented student well-being in terms of emotional attitude (e.g. emotional engagement) and social relationship (e.g., school connectedness) indicators. Whereas, Kern et al. (2015) took a more holistic viewpoint and adopted Seligman’s PERMA theory of human flourishing within the school context, including five indicators such as positive emotion (P), engagement (E), relationships (R), meaning (M), and achievement (A). Three studies fell under the other category. Two of them took the need satisfaction approach and viewed well-being as a state that results from the satisfaction of three needs: having, loving, and being, as suggested by Allardt (2003). Here, having referred to material and impersonal needs, it also included the need for good health, loving refers to the need to relate to others, and denoting the need for personal growth. Konu et al.’s (2015) quantitative study in Finland and Hidayah et al.’s (2016) qualitative study conceptualised well-being in terms of four indicators reflecting the three needs (see Table 4). Only one study by Anderson and Graham (2016) used recognition theory to conceptualise student well-being in terms of three aspects of recognition: cared for, respected and valued.
3.4 Domains of Student Well-Being Explored in Previous Studies

Irrespective of the theoretical perspective adopted, 29 of the 33 studies used instruments with subscales to measure student well-being as a multidimensional concept. Ninety-one domains of well-being were identified from the well-being instruments, with an additional 21 extracted from the qualitative studies, resulting in a total of 112. We observed that different terms were used in the 33 studies reviewed to refer to the domains identified, although their descriptions were often similar. Hence, a coding scheme was developed to recategorise the domains extracted from the 33 studies (see Table 5). By analysing the items under each domain and examining their qualitative descriptions, all 112 domains were coded independently by the first and second author and recategorised into eight overarching domains following the coding scheme. Good interrater reliability of Cohen’s $\kappa = 0.97$ (Cohen, 1960; McHugh, 2012) was also found at this stage.

The eight derived overarching domains included positive emotion, lack of negative emotion, relationships, engagement, accomplishment, a sense of purpose in school, intrapersonal/ internal factors, and contextual/ external factors. The number of domains included per study ranged between two and eight.

3.4.1 Positive Emotions

Positive emotion is about feeling good at school and reflects a hedonic view of well-being. About two-thirds of the studies (24/33) in this review included at least one

| Domains                          | Coding Scheme                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------|
| Positive emotions                | Positive feelings and evaluations of different aspects of school, school satisfaction, positive affect, positive attitudes, and enjoyment in school |
| (Lack of) Negative emotions      | Negative feelings and evaluations of different aspects of school, negative affect, anxiety, worries, stress |
| Engagement                       | Academic, behavioural, cognitive, psychological, affective engagement, Learning, doing homework,       |
| Relationships                    | Relationships that students have with peers, teachers, parents, and school, being listened to, being respected, and school-parent interrelationships |
| Accomplishment                   | Achievement, mastery, academic efficacy, competence, positive academic self-concept                      |
| Purpose in school                | Meaning, learning and personal development, educational purpose, and striving (that motivates and directs one’s involvements and engagements) |
| Intrapersonal/Internal factors   | Self and intrapersonal factors (e.g., emotional regulation, resilience, and self-esteem), physical and mental health, health status, depressive symptoms, physical complaints in school |
| Contextual/ External factors     | Physical (e.g., school library) and non-physical resources (e.g., quality teachers), tools (e.g., computers), opportunities (e.g., leisure, having a say), school conditions, facilities, services, and programs, living conditions |
### Table 6

Domains Inferred from 33 Studies on Student Well-being

| Positive emotions | Lack of Negative emotion | Relationships | Academic | Purpose at school | Intrapersonal / Internal factors | Contextual / External factors |
|-------------------|--------------------------|---------------|----------|------------------|---------------------------------|------------------------------|
| Anderson and Graham (2016) | √ | √ | | | √ | |
| Arslan and Renshaw (2018) | √ | √ | √ | √ | | |
| Danker et al. (2019) | √ | √ | √ | √ | √ | |
| Donat et al. (2016) | √ | √ | √ | | √ | |
| Engels et al. (2004) | √ | √ | | | | |
| Hascher (2007) | √ | √ | √ | √ | | |
| Hidayah et al. (2016) | √ | √ | | | | |
| Holfve-Sabel (2014) | √ | √ | | | | |
| Kern et al. (2015) | √ | √ | √ | √ | | |
| Kiuru et al. (2020) | √ | √ | | | | |
| Konu et al. (2015) | | | | | | |
| Lan and Moscardino (2019) | √ | √ | | | | |
| López-Pérez and Fernández-Castilla (2018) | √ | √ | √ | | | |
| Mameli et al. (2018) | √ | √ | | | | |
| Mascia et al. (2020) | √ | √ | | | | |
| McLellan and Steward (2015) | √ | √ | √ | | | |
| Miller et al. (2013) | √ | √ | √ | | | |
| Morinaj and Hascher (2019) | √ | √ | √ | | | |
| Opre et al. (2018) | | | | | | |
| Macdonald and Hauser (2019) | √ | | | | | |
Table 6 (continued)

Domains of student well-being

| Author                        | Positive emotions | (lack of) Negative emotion | Relationships | Engagement | Accomplishment | Purpose at school | Intrapersonal / Internal factors | Contextual / External factors |
|-------------------------------|-------------------|----------------------------|---------------|------------|----------------|-------------------|---------------------------------|-------------------------------|
| Pietarinen et al. (2014)      | ✓                 | ✓                          | ✓             | ✓          |                |                   |                                 |                               |
| Renshaw et al. (2015)         |                   | ✓                          | ✓             | ✓          | ✓              |                   |                                 | ✓                             |
| Scrimin et al. (2016)         |                   |                            | ✓             |            |                |                   |                                 | ✓                             |
| Soutter (2011)                | ✓                 |                            | ✓             | ✓          | ✓              | ✓                 | ✓                               |                               |
| Tobia et al. (2019)           |                   |                            | ✓             |            |                |                   |                                 | ✓                             |
| Tian et al. (2013)            | ✓                 |                            | ✓             |            |                |                   |                                 | ✓                             |
| Tian et al. (2014)            |                   |                            | ✓             |            |                |                   |                                 | ✓                             |
| Tian et al. (2016)            |                   |                            | ✓             |            |                |                   |                                 | ✓                             |
| Tong et al. (2018)            |                   |                            | ✓             |            |                |                   |                                 | ✓                             |
| Van Petegem et al. (2008)     | ✓                 |                            | ✓             |            |                |                   |                                 | ✓                             |
| Wong and Siu (2017)           | ✓                 |                            | ✓             |            |                |                   |                                 | ✓                             |
| Yao et al. (2018)             |                   |                            | ✓             |            |                |                   |                                 | ✓                             |
domain of positive emotion, such as joy or school satisfaction (see Table 6). School satisfaction was the most measured aspect of positive emotion, regardless of how it was labelled.

3.4.2 (lack of) Negative Emotions

The absence of negative emotions such as stress, worry, anxiety, or cynicism was used as a proxy for well-being and was evident in 16 of the 33 studies (see Table 6). It was commonly measured alongside positive emotion, except in two studies. Scrimin et al. (2016) assessed school-related anxiety and academic stress. Tong et al. (2018) measured depressive symptoms and student stress using specific subscales for academic stress, efficacy stress, and self-focused stress.

3.4.3 Relationships

This domain refers to students’ perceptions and feelings about meaningful relationships with peers, teachers, family and the school as an institution/community. It was the most dominant and was evident in 26 of the 33 studies (see Table 6). Under this domain, we included school connectedness, teacher-student, and peer-peer relationships (see Table 5 for coding scheme). The majority included positive relationships either with teachers or peers. Soutter (2011) viewed the relationship domain not only as relating to family-peers-teachers-school but also to the purpose of one’s life.

3.4.4 Engagement

This domain included behavioural, cognitive, and affective involvement with the school and was evident in 14 out of 33 studies (see Table 6). Cognitive and emotional engagement, interest in learning tasks, looking after self and others, attitude towards homework, and means of self-fulfilment were included here as they referred to students’ involvement in curricular and extra-curricular activities at school. We had academic well-being in the engagement domain from the study by Danker et al. (2019), referring to students’ qualitative accounts of learning in their favourite subjects at school, doing homework, and how they learn best.

3.4.5 Accomplishment

This domain referred to students’ perceived academic self-concept. Twelve of the 33 studies included a sense of accomplishment. Again, this domain was viewed in many ways, such as academic efficacy/competence, positive academic self-concept, and self-assessment of completing the task. Butler and Kern (2016) saw it as “working toward and reaching goals, mastery and efficacy to complete tasks” (p. 4). We noted a lack of domains that included non-academic accomplishments such as a sport or the arts.
3.4.6 Purpose at School

This domain represented students’ belief about the purpose or value of school-work to their present or future life and was evident in 4 of the 33 studies. This domain was referred to in diverse terms in the studies reviewed, including educational purposes, learning, personal development, striving, and well-being (see Table 5 for the coding scheme).

3.4.7 Intrapersonal/Internal Factors

About 10 of the 33 studies included this domain (see Table 6). This overarching domain is concerned with those aspects that manifest students’ internalised sense of self, such as emotional regulation, that help them experience well-being at school (Fraillon, 2004). Self-esteem (Miller et al., 2013) and self-efficacy (Tobia et al., 2019) were also coded as intrapersonal, as were opportunities to make an autonomous decision (Mascia et al., 2020) as items referred to students’ sense of self-regulation at school. Among the qualitative findings, Soutter’s (2011) “being” domain was categorised as intrapersonal as it represents personal agency, identity, independence, and the way one is comfortable with or wants to be.

Included in this overarching domain were mental and physical health as they are related to intrapersonal. Physical health was found in four studies, such as the absence of physical complaints (Hascher, 2007; Morinaj & Hascher, 2019), Health status (Hidayah et al., 2016; Konu et al., 2015), and Being healthy (Anderson & Graham, 2016) (See Table 6). Only two studies referred to students’ mental health. Wong and Siu (2017) and Kern et al. (2015) assessed the absence of depressive symptoms and depression as indicators of student well-being, respectively.

3.4.8 Contextual/External Factors

This domain was included in 6 of the 33 studies (see Table 6). External factors cover all domains representing resources inside and outside of the school available for students to support their well-being. It includes but is not limited to physical and material resources, tools, and opportunities. From analysing the instruments used, the following external resources were used to measure student well-being: school conditions (Hidayah et al., 2016; Konu et al., 2015), current living conditions, and availability of assistance (Mascia et al., 2020). Similarly, the Having domain from Soutter’s (2011) qualitative study referred to getting access to opportunities, tools, and resources, with Anderson and Graham (2016) reporting that having a great environment, having a say, and having privacy indicated student well-being at school. It included physical and material resources, tools, school conditions or environment, current living conditions, and availability of assistance (see Table 5 for the coding scheme). Soutter’s (2011) Having domain was included here as it referred to access to opportunity, tools, and resources.
4 Discussion

4.1 Measuring Student Well-Being

All but three studies in our review took a quantitative approach and used self-report surveys to measure student well-being. The majority of the measurement instruments had acceptable to good reliability scores. However, depending on what domains the instrument items reflect, they may not have holistically captured the construct of student well-being at school. Further, a few measurement instruments (e.g., SWBQ by Hascher, 2007) were used and validated in more than one study or geographic location, which raises validity and generalisation issues.

Few studies in this review reported a systematic approach to developing, validating, and piloting their instruments, optimising psychometric properties. The scales of Renshaw (2015) and Opre et al. (2018) are exceptions. Further, few sought inputs from the population of interest; the students. Adapting existing measurement instruments designed to measure adults’ or children’s well-being in general for the school context was common and less onerous than developing and testing a new instrument (Boateng et al., 2018). School, however, is a unique context, and general measures of well-being might not capture the nuances of well-being for students at school (Joing et al., 2020).

The reviewed studies seldom used qualitative and Mixed methods approaches despite the richness of data on participants’ perspectives and experiences from such research designs (Aarons et al., 2012; Creswell, 2013). This finding is consistent with the literature review undertaken by Danker et al. (2016). In this review, Three studies investigated student well-being via qualitative means (Danker et al., 2019; Hidayah et al., 2016; Soutter, 2011). More qualitative studies are needed to understand the students’ perspectives better. Further, combining qualitative and quantitative approaches is an effective way to improve the construct validity of research instruments, as Anderson and Graham (2016) did.

4.2 Conceptualising Student Well-Being

We identified significant variability in the conceptualisation of the term student well-being. Studies focused on measuring student well-being rather than conceptualising or defining the construct. Despite no unanimously accepted definition, all researchers conceptualised it as a multidimensional and context-dependent construct. Positive emotion and feeling (e.g., joy) in the school environment seemed to be the core element shared by all definitions, reflecting a hedonist view of well-being. Although explicit to different degrees, another common element in the conceptualisations reviewed was students’ subjective perceptions, appraisal, and evaluation of their school experience. Some conceptualisations reflected the eudaimonic view and included students’ realisation of their potential and effective functioning, typically academic learning in the classroom and within the social community. In considering the common elements across the
identified definitions in the studies reviewed here, we propose a more holistic definition of student well-being as the subjective appraisal of a student’s school experience emerging from but is not limited to, positive over negative emotions, the satisfaction of individual needs, effective academic, social, and psychological functioning at school to pursue valued goals, and having access to internal and external factors.

4.3 Domains of Student Well-Being

The eight overarching domains we identified are consistent with findings reported in reviews by Fraillon (2004) and Danker et al. (2016). Fraillon (2004) identified the intrapersonal and relationship domain, whereas positive emotion, lack of negative emotion, engagement, accomplishment, relationships, intrapersonal, and having access to external resources were found in Danker et al.’s (2016) review. This review identified one additional domain: a sense of purpose at school.

Among the eight domains, hedonic-aligned domains were the most common. The consistency of the hedonic conceptualisation and measurement instruments is perhaps the reason behind such hedonic domination. Commonly included domains were positive relationship and engagement, which overlap with well-researched concepts such as peer relationships, school belonging, school connectedness, and engagement at school. Peer relationships and school engagement have been well assessed, with many psychometrically sound measures developed. Therefore, it is not surprising that researchers tended to include those domains.

Conversely, less frequently included domains such as a sense of purpose at school and intrapersonal may be due to the lack of conceptual clarity and availability of current measurement instruments. Several studies included a sense of accomplishment of the other eudaimonic domains. However, the notion of accomplishment in the reviewed studies was academic performance-centric, potentially excluding non-academic accomplishments at school (e.g., sports, the arts), which are crucial for holistic development. Recent studies have started to include eudaimonic domains such as a sense of purpose and intrapersonal domains that add depth to the construct of student well-being.

Although some domains were more frequent than others, they should not be assumed to be more critical or pertinent. Using a domain due to its conceptual clarity and measurement suitability is problematic as it can narrow the scope of an inherently complex multidimensional construct like student well-being. Our review found that many studies lacked comprehensiveness regarding the domains. In 13 of the 33 studies, only two or three domains of student well-being were used to describe the whole construct. Another problem in the studies reviewed was the lack of clear reasoning behind choosing a specific domain. There might be some good reasons to have fewer domains; it is crucial to outline the reason for the selection clearly. Doing so can provide a more theoretically grounded, accurate and informative assessment of student well-being.
5 Recommendations

We offer three recommendations to researchers based on our findings. First, there is a lack of systematic development of psychometrically sound instruments for measuring student well-being. Hence, our first recommendation is that researchers develop (or adapt) valid and reliable tools explicitly to measure student well-being that follows the nine steps outlined by Boateng et al. (2018), reflecting a broader conceptualisation of student well-being discerned in this review. Further, validation of student well-being measurement instruments that are conceptually more holistic with culturally, socially, and economically diverse participants is needed to advance the field.

Second, the domains we identified in our review may provide a valuable basis for assessing students’ well-being experience at school. The theoretical and practical relevance of the domains identified in our review should be investigated in future research. For instance, researchers may examine the construct validity of these domains collectively and see the possibility of developing a psychometrically sound instrument including them. Further, these domains can serve as a guideline for designing intervention programs that facilitate student well-being at school. Future research can investigate the impact of these domains on outcomes relevant to student well-being.

Third, we identified a predominance of quantitative studies. This points to a lack of students’ qualitative accounts of their understanding of well-being at school. Qualitative accounts can also inform the quantitative findings. Hence, our third recommendation is that more research should be conducted using qualitative and mixed-method approaches.

Fourth, most research has been conducted in Western cultural contexts, with a few exceptions, such as China and India. Given that well-being is a culture-specific construct (Suh & Choi, 2018), students’ well-being experiences might be influenced by their local educational system and broader socio-cultural factors such as adult–child relationships. Thus, our final recommendation is that more qualitative and quantitative research should be conducted in non-Western cultural contexts, particularly in countries from the global South. Cross-cultural comparisons that assist in identifying universal and culture-specific domains of student well-being are warranted.

6 Limitations

This scoping review has three main limitations. Firstly, we included only peer-reviewed journal articles in English, which raises the possibility of excluding potentially relevant studies published in reports or other languages. Secondly, we only included studies that explicitly investigated students’ perspectives. Other stakeholder views, such as teachers and parents, are important to gain a complete picture of student well-being. Some studies included in this review had other
stakeholder views but were not focused upon. Hence, the scope of this review in terms of providing a multi-perspective understanding of the construct is somewhat limited. Thirdly, the dominance of cross-sectional design in the studies reviewed limits the test for causalities. Finally, since most of the studies in this scoping review reflected Anglo-European student populations, caution is needed to generalise the findings to other cultures and contexts.

7 Conclusion

This review presented an overview of the conceptualisation, measurement, and domain of student well-being identified in the extant literature since 1989. We found that definitions and conceptualisation of the construct of student well-being varied. Researchers named domains found in previous studies with different labels, unnecessarily muddying the construct and leading to issues when comparing research findings. Our analysis showed that most domains reflected a hedonic view leading to a narrow line of enquiry, with some domains we identified here appearing under-researched. Based on our review of definitions and conceptualisations, we offered a more holistic explanation of student well-being to incorporate dominant and diverse views. We identified eight overarching domains from the 33 studies. We believe this is a significant advancement, bringing better clarity and demarcation of the construct. We believe the eight domains identified here encompass a wide range of school-based experiences and provide a more holistic conceptualisation of the construct of student well-being.

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