# **School Belonging**

Subjects: Education & Educational Research

Contributor: HandWiki Li

The most commonly used definition of school belonging comes from a 1993 academic article by researchers Carol Goodenow and Kathleen Grady, who describe school belonging as "the extent to which students feel personally accepted, respected, included, and supported by others in the school social environment." The construct of school belonging involves feeling connected with and attached to one's school. It also encompasses involvement and affiliation with one's school community. Conversely, students who do not feel a strong sense of belonging within their school environment are frequently described as being alienated or disaffected. There are a number of terms within educational research that are used interchangeably with school belonging, including school connectedness, school attachment, and school engagement. School belonging is determined by a myriad of factors, including academic achievement and motivation, personal characteristics, social relationships, demographic characteristics, school climate, and participation in extracurricular activities. Research indicates that school belonging has significant implications for students, as it has been consistently linked with academic outcomes, psychological adjustment, well-being, identity formation, mental health, and physical health—it is considered a fundamental aspect of students' development. A sense of belonging to one's school is considered particularly important for adolescents because they are within a period of transition and identity formation, and research has found that school belonging significantly declines during this period. Psychological Sense of School Membership (PSSM), developed in 1993, is one of the measures to ascertain the degree to which students feel a sense of school belonging. Students rate the extent to which they agree or disagree with statements, such as "People here notice when I'm good at something." In 2003, the Centers for Disease Control and Prevention held an international convention where the Wingspread Declaration on School Connections was developed as a group of tactics to increase students' sense of belonging and connection with their school.

Keywords: school belonging; well-being; school environment

# 1. Prevalence and Trajectory

Research indicates that many students have deficient feelings of school belonging. [1][2] The Programme for International Student Assessment (PISA) has an investigated school belonging and disaffection in students around the world since 2003. Their most recent collection of data occurred in 2018. Approximately 600,000 students representing 32 million 15 years olds (aged between 15 years 3 months and 16 years 2 months) from 79 countries and economies participated in PISA 2018. Their analyses revealed that a significant proportion of students around the world are lacking strong feelings of belongingness to school. On average, a third of all students surveyed felt they did not belong to their school. In addition, they found that one in five students feels like an outsider at school and one in six reports feeling lonely. In most of the education systems, students who were socio-economically felt less belonging to school. On average student belonging to school declined by 2% between 2015 to 2018. The portion of students who do not feel like they belong to school has increased since 2003 indicating a trend in the deterioration of school belonging globally. In the content of school belonging globally.

School belonging tends to decrease as students grow older, as indicated in several different research studies. In one study involving students from Latin America, Asia, and Europe, researchers Cari Gillen-O'Neel and Andrew Fuligni found that in childhood, students generally report high levels of school belonging. However, once students transition into middle school and adolescence, their perceptions of school belonging drop significantly. Similarly, a separate study found that students' school belonging decreased in the transition from middle to high school; these students also displayed an increase in depressive symptoms and a decline in social support, which could be considered either causes or consequences of the decline in school belonging. This trend has been replicated in many other studies, suggesting that school belonging declines once students reach adolescence.

# 2. Determinants

A meta-analysis of 51 studies (N = 67,378) by K. Allen and colleagues (2018) identified that there are multiple individual and social level factors that influence school belonging. These core themes include academic factors, personal characteristics, social relationships, demographic characteristics, school climate and extra-curricular activities. For many of the determinants of school belonging, it is likely that each of them have a reciprocal relationship with a student's sense of belonging. That is, they operate as both an antecedents or consequences.

#### 2.1. Academic Factors

Research has documented the influence of academic factors (i.e. achievement, motivation, hardiness, interest in school) on students' school belonging. [7][9] Academic achievement, or one's skills and competencies in school, has been identified as a substantial predictor of school belonging. For example, research has demonstrated that students' grade point averages (GPAs), a common measure of academic achievement, are positively associated with school belonging. This means that students who have higher GPAs have higher levels of school belonging. Studies have also found several measures of academic motivation to be determinants of students' school belonging. Academic motivation encompasses behaviors such as homework completion, setting goals, expectancy of success, and effort and engagement within the classroom. Carol Goodenow and Kathleen Grady found each of these sub-sects of academic motivation to be significant predictors of students' perceptions of school belonging. More recent research has replicated these findings, suggesting that academic motivation plays an important role in developing feelings of school belonging. In addition, students' perceived value of school influences their school belonging: when they perceive their assignments and education as instructive, meaningful, and valuable, they are more likely to report greater school belonging.

#### 2.2. Personal Characteristics

Personal characteristics refer to students' distinctive qualities, traits, personality, emotions, and attributes, and have been consistently identified as a substantial determinant of school belonging. [4][7][11] Personal characteristics can be classified as either positive or negative. Positive personal characteristics such as self-esteem, self-efficacy, positive affect, and effective emotional regulation have been shown to help foster students' sense of school belonging. A study by Xin Ma found that students' self-esteem had the greatest impact on school belonging compared to all other personal factors. Conversely, negative personal characteristics like anxiety, depressive symptoms, heightened stress, negative affect, and mental illness can lower students' perceptions of school belonging. Emotional instability can further influence school belonging by negatively affecting students' educational experiences.

### 2.3. Social relationships

Social relationships are involved in developing students' feelings of belonging within a school. [4] There are large, positive correlations between school belonging and positive social relations with peers, teachers, and parents. [13] Support, acceptance, and encouragement from these sources can help students develop the feeling that they connect and identify with their school. [4][ $\mathbb{Z}$ ]

Peers



School children at a school in Tanzania. https://handwiki.org/wiki/index.php?curid=1957727

Peer relations have been identified as a direct contributor to students' development of school belonging. [4][14][15] Positive social relations with peers involve feelings of acceptance, connection, encouragement, academic and social support, trust, closeness, and caring. [7] Such qualities within a peer relationship can significantly facilitate students' feelings of school belonging. [7][13] When students are rejected or unsupported by their peers, they may experience anxiety, stress, and alienation. This alters their perceptions of belonging at school because the school environment now seems unwelcome and distressing, making it harder to identify and connect with the school. [4][7]

# Parents

Relationships with one's parents can have significant implications for students' feelings of school belonging, given that parents typically provide students' first social relationships. Positive parental relations include parents providing academic and social support, healthy communication, encouragement, compassion, acceptance, and safety. Such qualities within parent-child relationships have been shown to foster students' sense of school belonging by influencing their perceived connection with their school environment.

#### **Teachers**



Teacher and student, Lansing, Michigan, 1960. https://handwiki.org/wiki/index.php?curid=1413693

Teachers have been identified as being noteworthy contributors to students' feelings of belonging at school. Several academic studies have identified teacher support as the strongest predictor of school belonging compared to support from peers or parents. Teachers can help instil school belonging by developing a safe and healthy classroom climate, providing academic and social support, fostering respect amongst peers, and treating students fairly. Teachers can also promote feelings of school belonging by being friendly, approachable, and making an effort to connect with their students. Teaching practices that seem to promote students' school belonging include scaffolding learning, commending positive behaviors and performance, allowing students autonomy within the classroom, and using academic pressure, such as holding high expectations of students.

## 2.4. Demographic Characteristics

### Gender

The relationship between gender and school belonging is largely inconclusive because research has produced conflicting results.  $^{[\underline{4}]}$  Several studies have found gender differences in perceptions of school belonging: some research indicates that females possess a higher sense of school belonging compared to males,  $^{[\underline{4}][\underline{14}]}$  while other studies have found the opposite effect and conclude that males have higher school belonging than females.  $^{[\underline{17}]}$  Other research has demonstrated that school belonging is not at all influenced by gender.  $^{[\underline{7}]}$ 

# Race and ethnicity

Similar to gender, some research on the effect of race and ethnicity on school belonging has found a significant relationship between the two, while other research contradicts these findings.  $^{[4]}$  For example, one study found that Black students experience lower feelings of school belonging compared to white students,  $^{[17]}$  however, other research has found

### 2.5. School climate

A school's climate can have significant consequences for students feeling like they belong at school. [Z[12]19] School climate broadly refers to the feelings associated with a school's environment and quality; it is considered to have physical (e.g. adequacy of buildings), social (e.g. interpersonal relationships), and academic dimensions (e.g. teaching quality). [20] School climate influences school belonging through its support (or lack thereof) of students' feelings of connection with and attachment to their school. [Z[12]] One important facet of school climate is school safety, which is how safe students feel at school. It includes variables such as a school's safety policies, use of discipline, bullying prevalence, and fairness. School safety is regarded as an important determinant of school belonging. [Z[19]] Higher perceptions of school safety is associated with students holding greater feelings of school belonging. [19]

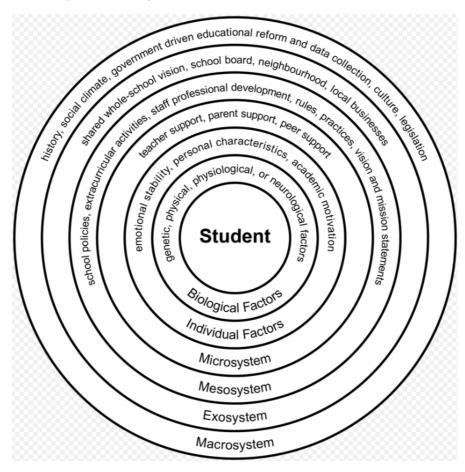
#### 2.6. Extracurricular Activities



2016 Girls' Representative Cross Country, held at Yarra Valley Grammar School, Victoria, Australia. https://handwiki.org/wiki/index.php?curid=1716425

Research has shown that being involved in extracurricular activities can positively influence students' perceptions of school belonging. For example, researchers Casey Knifsend and Sandra Graham found that students who participated in two extracurricular activities reported greater feelings of school belonging compared to those students who participated in fewer than two. Other studies have replicated this relationship, highlighting the importance of participating in extracurricular activities for developing school belonging. Extracurricular activities may influence school belonging by providing collaborative and long-term interactions between students and their peers.

# 3. A Socio-ecological Perspective



Socio-ecological Model of School Belonging by Kelly-Ann Allen, Dianne Vella-Brodrick, and Lea Waters, 2016. [22] https://handwiki.org/wiki/index.php?curid=1485136

The many determinants of school belonging can be conceptualised in a socio-ecological model. The *Socio-ecological Model of School Belonging* developed by Allen and Colleagues (2016), adapted from Bronfenbrenner's Socio-ecological systems theory (1979)<sup>[23]</sup> is used to describe the school system as whole and the multiple and dynamic influencers of school belonging.<sup>[19]</sup> The model depicts students at the centre of their school environment. The inner circles describe biological and individual level characteristics that influence school belonging.<sup>[4][19]</sup> These factors include biological traits and personal characteristics such as emotional stability and academic motivation. The microsystem is represented by relationships with others, specifically, teachers, peers, and parents.<sup>[19]</sup> The mesosystem represents the school policy and practices that occur within the day-to-day operations of the school and the exosystem represents a broader level that may include the wider school community.<sup>[19]</sup> The macro-system describes the cultural context of a school that may be influenced by where a school is geographically located, the external social climate, and other factors such as history, legislation, and government driven priorities.<sup>[19]</sup>

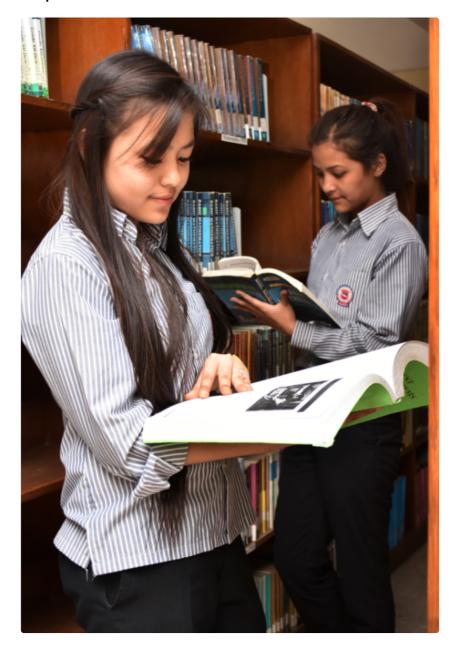
# 4. Consequences

## 4.1. Psychological Health and Adjustment

School belonging has numerous consequences for students' psychological health and adjustment. [4][7][16] Research has shown that when students feel a greater sense of school belonging, their mental health and well-being is improved: [24] they exhibit greater levels of emotional stability, [4] lower levels of depression, [5][6] reduced stress, [13] and an increase in positive emotions, such as happiness and pride. [25][26] Feelings of school belonging have also been shown to predict self-esteem, [11][27] self-concept, [7][13] and self-worth. [16] Students who possess school belonging experience more positive life transitions as well, which can have important implications for psychological health and adjustment. [13]

On the other hand, students who do not have a strong sense of school belonging are at risk for a number of disadvantageous psychological and mental health outcomes. [4] Students who lack a sense of belonging at school are at significantly greater risk for exhibiting anxiety, depression, negative affect, suicidal ideation, and overall developing mental illness. It may also increase their feelings of social rejection and alienation. [4][6]

### 4.2. Academic Development and Outcomes



Two students from Xavier Academy in Nepal studying in the library 2016. https://handwiki.org/wiki/index.php? curid=1478641

Feelings of school belonging can have a significant influence on academic development and outcomes for students. [4] School belonging is related to students' expectancy of success, effort in school, and perceived value of school and education. [2][10][28] Greater feelings of school belonging has been shown to increase engagement and participation both inside school and within extracurricular activities. Similarly, school belonging is associated with a greater commitment to school. [10][14] Strong feelings of school belonging have also been shown to improve overall academic performance and achievement, as shown by increases in grade point averages. [7][11][16][25] A sense of belonging at school can also improve academic self-efficacy, or in other words, students' belief in their ability to succeed in school. [4][7]

Research has suggested that school belonging can also alleviate the prevalence of negative academic outcomes. Greater feelings of school belonging are associated with decreased misbehavior and misconduct, such as fighting, bullying, and vandalism. It can improve school attendance by reducing the frequency of truancy and absenteeism. Having school belonging also reduces students' likelihood of dropping out of school, thus improving rates of school completion. Conversely, students who lack a sense of school belonging are at greater risk for disengagement from school and potentially dropping out. [10][15]

## 4.3. Physical Health

School belonging has several implications for students' physical health. [4] Students who possess feelings of school belonging exhibit reduced risk of having a stroke or disease. [13] School belonging is also associated with lower mortality rates for students. [29] In addition, perceptions of school belonging have a significant inverse relationship with risk-taking

behaviors, including substance and tobacco use and early sexualization. In other words, students who have higher levels of school belonging are less likely to engage in risk-taking behaviors. [I][30]

# 5. Measures

There are a number of measures used to assess school belonging. The most commonly used measures include:

## 5.1. Psychological Sense of School Membership (PSSM)

The most commonly used measure of school belonging is the Psychological Sense of School Membership (PSSM) scale, which was developed by Carol Goodenow in 1993. [4][30] This scale measures students' feelings of belonging and membership within a school setting by having students respond to 18 items regarding their personal feelings and experiences within school. It is designed to be used with students of all ages and nationalities. Students answer the items on a scale ranging from 1 to 5, where 1 indicates *Not at all true*, and 5 indicates *Completely true*. The items are intended to measure students' perceptions of acceptance, academic and social support, value, and contentment within their social relationships at school. The following are some examples of items that students respond to: "People here notice when I'm good at something," "Other students take my opinions seriously," and "I feel like a real part of this school." Research has found the PSSM to have high validity and reliability, attesting to its status as a valuable and functional measure of school belonging. [4]

## 5.2. Hemingway Measure of Adolescent Connectedness (HMAC)

The Hemingway Measure of Adolescent Connectedness (HMAC) was constructed by Michael Karcher in 1999 and has been used in research as a measure of school belonging for adolescents specifically. It contains 74 items on a scale ranging from 1 (*Not true at all*) to 5 (*Very true*). It examines adolescents' perceptions of connectedness, or in other words, their involvement with and valuation of both the specific and general social support they receive, across three subcategories: social connectedness, academic connectedness, and family connectedness. The social connectedness component measures adolescents' feelings of connection towards their friends, neighborhood, and self. Academic connectedness evaluates adolescents' sense of connection towards their school, teachers, peers, and academic self. Finally, the family connectedness component assesses adolescents' feelings of connectedness to their parents, siblings, religion, and ancestry. Items measuring school belonging specifically include: "I feel good about myself when I am at school," "I get along well with the other students in my classes" and "I enjoy being at school." This scale has been found to be generalizable to adolescents across the globe.

#### 5.3. School Connectedness Scale (SCS)

Jill Hendrickson Lohmeier and Steven W. Lee created the School Connectedness Scale (SCS) in 2011 to assess students' peer, adult, and school relationships within three distinct categories: general support (belongingness), specific support (relatedness), and engagement (connectedness). The scale includes 54 self-report items presented on a scale ranging from 1 to 5, where 1 represents 'Not at all true' and 5 represents 'Completely true'. Some items include "Students at my school help each other", "I am very involved in activities at my school, like clubs or teams", "Teachers at my school care about their students", and "I like spending time with my classmates." The SCS has shown generalizability to students from diverse populations, including different ages and ethnicities. [33]

## 5.4. School Engagement Instrument (SEI)

The School Engagement Instrument (SEI) was designed by James Appleton, Sandra Christenson, Dongjin Kim, and Amy Reschly in 2006 and is commonly used to gauge perceptions of school belonging. It includes 35 items on a four-point scale ranging from *Strongly agree* to *Strongly disagree* that measure students' cognitive and affective engagement within the school environment. The items are categorized into six sub-domains: "future goals and aspirations, control and relevance of schoolwork, extrinsic motivation, family support for learning, peer support for learning, and teacher-student relationships." Items from the SEI include: "*Overall, my teachers are open and honest with me*," "*Students at my school are there for me when I need them*," "*When I have problems at school, my family/guardian(s) want to know about it,*" and "*What I'm learning in my classes will be important for my future*." [34]

# 6. Implications for Practice

In 2003, the Centers for Disease Control and Prevention (CDC) held an international convention to develop tactics for bolstering students' perceptions of school belonging. [4] They developed the Wingspread Declaration on School Connections which identified the following strategies for increasing students' belonging to and connection with their

- 1. Implementing high standards and expectations, and providing academic support to all students.
- 2. Applying fair and consistent disciplinary policies that are collectively agreed upon and fairly enforced.
- 3. Creating trusting relationships among students, teachers, staff, administrators, and families.
- 4. Hiring and supporting capable teachers skilled in content, teaching techniques, and classroom management to meet each learner's needs.
- 5. Fostering high parent/family expectations for school performance and school completion.
- 6. Ensuring that every student feels close to at least one supportive adult at school.
  - —"Wingspread Declaration on School Connections", Journal of School Health [35]

The CDC later advanced the work of the Wingspread Declaration in 2009 by conducting a comprehensive, systematic review of school belonging and connectedness using sources from expert researchers, the government, educators, and more. This work produced four additional strategies for enhancing students' perception of belonging within school: [36]

- 1. Adult Support: School staff members can dedicate their time, interest, attention, and emotional support to students.
- 2. Belonging to a Positive Peer Group: A stable network of peers can improve student perceptions of school.
- 3. Commitment to Education: Believing that school is important to their future and perceiving that the adults in school are investing in their education can help students engaged in their own learning and involved in school activities.
- 4. School Environment: The physical environment and psychosocial climate can set the stage for positive student perceptions of school.
  - —"School Connectedness: Strategies for Increasing Protective Factors Among Youth", *Centers for Disease Control and Prevention* [36]

### 6.1. Student-Level Implications for Practice

Student-level interventions may also increase a sense of school belonging. Research has indicated that social and emotional learning opportunities may also increase a sense of school belonging in students.  $^{[37]}$  Many individual characteristics found to enhance a student's sense of belonging can be taught to students and thus offer a preventative mechanism to support their sense of school belonging. For example research suggests that teaching emotional regulation, coping skills, interpersonal skills, and skills related to academic motivation hold promise for supporting a students sense of school belonging.  $^{[Z][38]}$ 

### References

- 1. Willms, Jon D. (2003) (in en). Student Engagement at School: A Sense of Belonging and Participation: Results from PISA 2000. PISA. OECD. doi:10.1787/9789264018938-en. ISBN 978-92-64-01892-1. https://www.oecd-ilibrary.org/education/student-engagement-at-school\_9789264018938-en.
- 2. Neel, Cari Gillen-O'; Fuligni, Andrew (2013). "A Longitudinal Study of School Belonging and Academic Motivation Across High School" (in en). Child Development 84 (2): 678–692. doi:10.1111/j.1467-8624.2012.01862.x. ISSN 1467-8624. PMID 23002809. https://semanticscholar.org/paper/8473ee5383845c91da4c55ad4e585c1f8d21cba9.
- "PISA 2018: Combined Executive Summary Report Report". Secretary-General of the OECD. 2019. https://www.oecdilibrary.org/docserver/acd78851-en.pdf? expires=1590450065&id=id&accname=guest&checksum=3799A3BE894A075BD31E1116F663BA30.
- 4. Allen, Kelly-Ann; Kern, Margaret L. (2017) (in en). School Belonging in Adolescents: Theory, Research and Practice. SpringerBriefs in Psychology. Singapore: Springer Singapore. doi:10.1007/978-981-10-5996-4. ISBN 978-981-10-5995-7. https://semanticscholar.org/paper/86b717dbc82c14a46ada045dd1688ff9fea8b96c.
- Newman, Barbara M.; Newman, Philip R.; Griffen, Sarah; O'Connor, Kerry; Spas, Jayson (2007). "The relationship of social support to depressive symptoms during the transition to high school". Adolescence 42 (167): 441–459.
  ISSN 0001-8449. PMID 18047232. http://www.worldcat.org/issn/0001-8449
- Anderman, Eric M. (2002). "School effects on psychological outcomes during adolescence." (in en). Journal of Educational Psychology 94 (4): 795–809. doi:10.1037/0022-0663.94.4.795. ISSN 1939-2176. https://dx.doi.org/10.1037%2F0022-0663.94.4.795
- 7. Allen, Kelly; Kern, Margaret L.; Vella-Brodrick, Dianne; Hattie, John; Waters, Lea (2018). "What Schools Need to Know About Fostering School Belonging: a Meta-analysis" (in en). Educational Psychology Review 30 (1): 1–34.

- 8. Abdollahi, A.; Panahipour, S.; Tafti, M. A.; Allen, K. A. (2020). "Academic hardiness as a mediator for the relationship between school belonging and academic stress". Psychology in the Schools: 345. doi:10.1080/00220671.2016.1261075. https://www.tandfonline.com/doi/abs/10.1080/00220671.2016.1261075? src=recsys&journalCode=vjer20.
- Anderman, Lynley H. (2003). "Academic and Social Perceptions as Predictors of Change in Middle School Students' Sense of School Belonging". The Journal of Experimental Education 72 (1): 5–22. doi:10.1080/00220970309600877. ISSN 0022-0973. https://dx.doi.org/10.1080%2F00220970309600877
- 10. Goodenow, Carol; Grady, Kathleen E. (1993). "The Relationship of School Belonging and Friends' Values to Academic Motivation Among Urban Adolescent Students" (in en). The Journal of Experimental Education 62 (1): 60–71. doi:10.1080/00220973.1993.9943831. ISSN 0022-0973. https://dx.doi.org/10.1080%2F00220973.1993.9943831
- 11. Sirin, Selcuk R.; Rogers-Sirin, Lauren (2004). "Exploring School Engagement of Middle-Class African American Adolescents" (in en). Youth & Society 35 (3): 323–340. doi:10.1177/0044118X03255006. ISSN 0044-118X. https://semanticscholar.org/paper/22698e97f7952eb9e2e81f64c3bc2c70130972f6.
- 12. Ma, Xin (2003). "Sense of Belonging to School: Can Schools Make a Difference?". The Journal of Educational Research 96 (6): 340–349. doi:10.1080/00220670309596617. ISSN 0022-0671. https://dx.doi.org/10.1080%2F00220670309596617
- 13. Slaten, Christopher D.; Ferguson, Jonathan K.; Allen, Kelly-Ann; Brodrick, Dianne-Vella; Waters, Lea (2016). "School Belonging: A Review of the History, Current Trends, and Future Directions" (in en). The Educational and Developmental Psychologist 33 (1): 1–15. doi:10.1017/edp.2016.6. ISSN 2059-0776. https://semanticscholar.org/paper/e4199f22f587d7aa590b33b931e3db9ee94b56a3.
- Osterman, Karen F. (2000). "Students' Need for Belonging in the School Community" (in en-US). Review of Educational Research 70 (3): 323–367. doi:10.3102/00346543070003323. ISSN 0034-6543. https://dx.doi.org/10.3102%2F00346543070003323
- 15. St-Amand, Jerome; Girard, Stephanie; Smith, Jonathan (2017). "Sense of Belonging at School: Defining Attributes, Determinants, and Sustaining Strategies" (in en-GB). IAFOR Journal of Education 5 (2). doi:10.22492/ije.5.2.05. ISSN 2187-0594. https://dx.doi.org/10.22492%2Fije.5.2.05
- 16. Pittman, Laura D.; Richmond, Adeya (2007). "Academic and Psychological Functioning in Late Adolescence: The Importance of School Belonging". The Journal of Experimental Education 75 (4): 270–290. doi:10.3200/JEXE.75.4.270-292. ISSN 0022-0973. https://dx.doi.org/10.3200%2FJEXE.75.4.270-292
- 17. Bonny, Andrea E.; Britto, Maria T.; Klostermann, Brenda K.; Hornung, Richard W.; Slap, Gail B. (2000-11-01). "School Disconnectedness: Identifying Adolescents at Risk" (in en). Pediatrics 106 (5): 1017–1021. doi:10.1542/peds.106.5.1017. ISSN 0031-4005. PMID 11061769. https://dx.doi.org/10.1542%2Fpeds.106.5.1017
- 18. Voelkl, Kristin E. (1995-01-01). "School Warmth, Student Participation, and Achievement". The Journal of Experimental Education 63 (2): 127–138. doi:10.1080/00220973.1995.9943817. ISSN 0022-0973. https://dx.doi.org/10.1080%2F00220973.1995.9943817
- 19. Allen, Kelly-Ann; Vella-Brodrick, Dianne; Waters, Lea (2016). "Fostering School Belonging in Secondary Schools Using a Socio-Ecological Framework" (in en). The Educational and Developmental Psychologist 33 (1): 97–121. doi:10.1017/edp.2016.5. ISSN 2059-0776. https://dx.doi.org/10.1017%2Fedp.2016.5
- 20. Loukas, Alexandra (2007). "What is School Climate?". National Association of Elementary School Principals 5 (1): 1–3. https://www.naesp.org/resources/2/Leadership\_Compass/2007/LC2007v5n1a4.pdf..
- 21. Knifsend, Casey A.; Graham, Sandra (2012). "Too Much of a Good Thing? How Breadth of Extracurricular Participation Relates to School-Related Affect and Academic Outcomes During Adolescence" (in en). Journal of Youth and Adolescence 41 (3): 379–389. doi:10.1007/s10964-011-9737-4. ISSN 0047-2891. PMID 22160442. https://dx.doi.org/10.1007%2Fs10964-011-9737-4
- 22. Allen, Kelly-Ann; Vella-Brodrick, Dianne; Waters, Lea (July 2016). "Fostering School Belonging in Secondary Schools Using a Socio-Ecological Framework" (in en). The Educational and Developmental Psychologist 33 (1): 97–121. doi:10.1017/edp.2016.5. ISSN 2059-0776. https://www.cambridge.org/core/journals/educational-and-developmental-psychologist/article/fostering-school-belonging-in-secondary-schools-using-a-socioecological-framework/C282C54B84E14C1DD8F5381271424D5C.
- 23. Bronfenbrenner, U. (1979). The ecology of human development: Experiments by nature and design. Cambridge, MA: Harvard University Press. Page 5.
- 24. Jose, Paul E.; Ryan, Nicholas; Pryor, Jan (2012). "Does Social Connectedness Promote a Greater Sense of Well-Being in Adolescence Over Time?" (in en). Journal of Research on Adolescence 22 (2): 235–251. doi:10.1111/j.1532-

- 7795.2012.00783.x. ISSN 1532-7795. https://semanticscholar.org/paper/05c93e0fc79cdac1900ec70923dcae21cc98e5f4.
- 25. O'Rourke, John; Cooper, Martin (2010). "Lucky To Be Happy: A Study of Happiness in Australian Primary Students". Australian Journal of Educational and Developmental Psychology 10: 94–107.
- 26. Fong Lam, Un; Chen, Wei-Wen; Zhang, Jingqi; Liang, Ting (2015). "It feels good to learn where I belong: School belonging, academic emotions, and academic achievement in adolescents" (in en). School Psychology International 36 (4): 393–409. doi:10.1177/0143034315589649. ISSN 0143-0343. https://dx.doi.org/10.1177%2F0143034315589649
- 27. Begen, Fiona M.; Turner-Cobb, Julie M. (2015). "Benefits of belonging: Experimental manipulation of social inclusion to enhance psychological and physiological health parameters" (in en). Psychology & Health 30 (5): 568–582. doi:10.1080/08870446.2014.991734. ISSN 0887-0446. PMID 25420618. http://eprints.bournemouth.ac.uk/24662/3/Begen.accepted%20version.pdf.
- 28. Goodenow, Carol (1991). "The Sense of Belonging and Its Relationship to Academic Motivation Among Pre- and Early Adolescent Students.". Education Resources Information Center. https://eric.ed.gov/?id=ED335151.
- 29. Holt-Lunstad, Julianne; Smith, Timothy B.; Layton, J. Bradley (2010). "Social Relationships and Mortality Risk: A Meta-analytic Review" (in en). PLOS Medicine 7 (7): e1000316. doi:10.1371/journal.pmed.1000316. ISSN 1549-1676. PMID 20668659. http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pmcentrez&artid=2910600
- 30. Goodenow, Carol (1993). "The psychological sense of school membership among adolescents: Scale development and educational correlates" (in en). Psychology in the Schools 30 (1): 79–90. doi:10.1002/1520-6807(199301)30:1<79::AID-PITS2310300113>3.0.CO;2-X. ISSN 1520-6807. https://dx.doi.org/10.1002%2F1520-6807%28199301%2930%3A1%3C79%3A%3AAID-PITS2310300113%3E3.0.CO%3B2-X
- 31. Karcher, Michael (1999). The Hemingway Measure of Adolescent Connectedness: A Manual for Interpretation and Scoring. University of Wisconsin, Madison.
- 32. Karcher, Michael; Lee, Yun (2001-11-30). "Connectedness among Taiwanese Middle School Students: A Validation Study of the Hemingway Measure of Adolescent Connectedness". Asia Pacific Education Review 3 (1): 92–114. doi:10.1007/BF03024924. https://eric.ed.gov/?id=EJ652000.
- 33. Lohmeier, Jill Hendrickson; Lee, Steven W. (2011). "A school connectedness scale for use with adolescents" (in en). Educational Research and Evaluation 17 (2): 85–95. doi:10.1080/13803611.2011.597108. ISSN 1380-3611. https://dx.doi.org/10.1080%2F13803611.2011.597108
- 34. Appleton, James J.; Christenson, Sandra L.; Kim, Dongjin; Reschly, Amy L. (2006). "Measuring cognitive and psychological engagement: Validation of the Student Engagement Instrument" (in en). Journal of School Psychology 44 (5): 427–445. doi:10.1016/j.jsp.2006.04.002. https://dx.doi.org/10.1016%2Fj.jsp.2006.04.002
- 35. "Wingspread Declaration on School Connections" (in en). Journal of School Health 74 (7): 233–234. 2004. doi:10.1111/j.1746-1561.2004.tb08279.x. PMID 15493700. https://dx.doi.org/10.1111%2Fj.1746-1561.2004.tb08279.x
- 36. "School Connectedness: Strategies for Increasing Protective Factors Among Youth". Centers for Disease Control and Prevention. 2009. https://www.cdc.gov/healthyyouth/protective/pdf/connectedness.pdf.
- 37. Allen, K. A.; Vella-Brodrick, D.; Waters, L. (2017). "School belonging and the role of social and emotional competencies in fostering an adolescent's sense of connectedness to their school". Social and Emotional Learning in Australia and the Asia-Pacific: Perspectives, Programs and Approaches (Singapore, Singapore: Springer): 83. doi:10.1007/978-981-10-3394-0\_5. ISBN 978-981-10-3393-3. https://www.springer.com/gp/book/9789811033933.
- 38. Allen, Kelly-Ann; Kern, Peggy (June 18, 2019) (in en). Boosting School Belonging: Practical Strategies to Help Adolescents Feel Like They Belong at School. Routledge. p. 10. ISBN 978-1-351-39588-5. https://books.google.com/books?id=o06fDwAAQBAJ&pg=PA1.

Retrieved from https://encyclopedia.pub/entry/history/show/78680