

### Appendix 3.

#### Summary and References of the Reviewed Studies

#### Student Engagement Research in Adolescence: A Scoping Review

N.	Author Year	Country	Conceptual	Design & Measures	Topic → variables	Research	Intervention
1	Anderson et al., 2017	USA	Student engagement 2D - C. & E. Appleton et al., 2006	Cross sectional Specific scales SEI	Adol. health → Strengths and positive attributes Method & interv. → Measures validation	Sample issues and studies replication	/
2	Ansong et al., 2017	Ghana	Both student-school engagement 2D - B. & E. Fredricks et al., 2004 2D	Longitudinal Specific scales Eng vs. Disaffection with learning	Demographic charact. → Cross cultural differences Method & interv. → Concept and theory Peers, family, and community → Parenting Peers, family, and community → Peer relation and friendship T-S relations → Support	Designs Issues Methodological consistency Sample issues and studies replication	Class., pedagogy and teachers Family, Peers and Community Wide school approach
3	Awang-Hashim et al., 2015	Malaysia	School Engagement 3D - B., E. & C. Fredricks et al., 2004 3D	Cross sectional New or adapted items Multidimensional School Engagement Scale	Adol. health → Well-being and Strengths and positive attributes	Designs Issues Methodological consistency	Class., pedagogy and teachers Wide school approach
4	Bakadorova et al., 2020	Germany	School Engagement 2D - B. & E. Finn, 1989	Longitudinal Specific scales Eng vs. Disaffection with learning	Adol. health → Strengths and positive attributes Demographic charact. → Age/ grades	Methodological consistency	Class., pedagogy and teachers
5	Blondal & Adalbjarnardottir, 2014	Iceland	Student engagement 2D - B. & E. Unclear focus	Longitudinal Specific scales Measures of Disengagement	Peers, family, and community → Parenting	Designs Issues Methodological consistency	Family, Peers and Community Student support
6	Borofsky et al., 2013	USA	School Engagement 3D - B., E. & C. Fredricks et al., 2004 3D	Longitudinal New or adapted items Specific items	Peers, family, and community → Community violence	Sample issues and studies replication New studies - cultural specificities New studies - other variables	Wide school approach

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N.	Author Year	Cou ntry	Conceptual	Design & Measures	Topic → variables	Research	Intervent ion
7	Brière et al., 2014	Canada	School Engagement 3D - B., E. & C. Unclear focus	Longitudinal Specific scales Student Engagement Tridimensional Measure	Adol. health → Risk factors	Sample issues and studies replication	Student support
8	Bryce et al., 2020	USA	School Engagement 2D - C. & E. Appleton et al., 2006	Cross sectional Specific scales SEI	Adol. health → Strengths and positive attributes	Designs Issues Methodological consistency Sample issues and studies replication	Student support Wide school approach
9	Cadime et al., 2016	Portugal	Engagement in learning 3D - Vigour, Dedication & Absortion Schaufeli et al., 2006	Cross sectional Specific scales UWES-Students	Adol. health → Well→being School adjustment → Academic achivement School adjustment → School problems	Designs Issues Methodological consistency Sample issues and studies replication	/
10	Chen et al., 2019	China	Student engagement 2D - B. & E. Fredricks et al., 2004 2D	Cross sectional New or adapted items Developmental Assets	Peers, family, and community → Social support Peers, family, and community → Social support	Designs Issues Methodological consistency New studies - disengagement New studies - other engagement dimensions	Wide school approach
11	Chong et al., 2018	Singapore	Student engagement 2D - C. & E. Reschly & Christenson et al., 2012	Cross sectional Combined scales Behavioral engagement + Attitudes Towards School Scale	Adol. health → Strengths and positive attributes Demographic charact. → Cross cultural differences Method & interv.→ Concept and theory T-S relations → Support	Designs Issues Methodological consistency New studies - cultural specificities	/
12	Coelho & Dell’Aglio, 2018	Brazil	School Engagement 2D - B. & E. Bear et al., 2014	Cross sectional Specific scales DSES– Student	Demographic charact. → Age/ grades Peers, family, and community → Parenting Peers, family, and community → Peer relation and friendship School adjustment → School problems T-S relations → Support	Designs Issues Methodological consistency	/
13	Constante et al., 2019	USA	School Engagement 3D - B., E. & C. Fredricks et al., 2004, 2005 3D	Cross sectional Specific scales SEM	School adjustment → Minority or immigrant students School adjustment → Minority or immigrant students	Designs Issues Sample issues and studies replication	Student support

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N.	Author Year	Country	Conceptual	Design & Measures	Topic → variables	Research	Intervention
14	Cooper, 2014	USA	Class. Engagement 3D - B., E. & C. Unclear focus	Mix methods New or adapted items Specific items + School Engagement Survey	Adol. health → Strengths and positive attributes T-S relations → Teaching methods	Sample issues and studies replication New studies - other variables	Class., pedagogy and teachers Wide school approach
15	Crowley & Cornell, 2020	USA	Both student-school engagement 2D - C. & E. Unclear focus	Cross sectional Specific scales Commitment to School scale	School environment → Violence	Designs Issues Methodological consistency New studies - other variables	Student support
16	Cunha et al., 2020	Portugal	School Engagement 3D - B., E. & C. Fredricks et al., 2004 3D	Qualitative or review Interview, focus group, observation or review	T-S relations → Support T-S relations → Teaching methods	/	Class., pedagogy and teachers Student support
17	Curran & Standage, 2017	United Kingdom	Student engagement 2D - B. & E. Skinner, 2009 including disafection	Qualitative or review Interview, focus group, observation or review	T-S relations → Teaching methods	/	Student support
18	Damian et al., 2017	Romania	School Engagement 3D - B., E. & C. Fredricks et al., 2004, 2005 3D	Longitudinal Specific scales SEM	Adol. health → Strengths and positive attributes	Methodological consistency	/
19	Datu et al., 2018	Hong Kong	Academic Engagement 4D - Behavioural, E., C. & Agentive Reeve & Tseng, 2011	Cross sectional Specific scales Academic Engagement Scale	Adol. health → Strengths and positive attributes School adjustment → Motivation	Methodological consistency Sample issues and studies replication	Student support Wide school approach
20	Debnam et al., 2014	USA	School Engagement 3D - B., E. & C. Fredricks et al., 2004 3D	Cross sectional New or adapted items Combined items	Demographic charact. → Age/ grades School environment → Values	Methodological consistency	Wide school approach
21	Dierendonck et al., 2020	Luxembourg	Class. Engagement 3D - B., E. & C. Specific approach	Cross sectional Specific scales Student Engagement in Class.	Method & interv. → Concept and theory Method & interv. → Concept and theory	Designs Issues Methodological consistency Sample issues and studies replication	/

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N.	Author Year	Cou ntry	Conceptual	Design & Measures	Topic → variables	Research	Intervent ion
22	Dotterer & Lowe, 2011	USA	School Engagement 2D - B. & E. Unclear focus	Cross sectional Scale and other methods What I Think About School Quest. + Class. Observation System	School adjustment → Academic achivement School adjustment → School problems School environment → Climate T-S relations → Relation T-S relations → Teaching methods	Designs Issues New studies - other variables	Class., pedagogy and teachers Wide school approach
23	Dunbar et al., 2017	USA	School Engagement 2D - B. & E. Unclear focus	Longitudinal Specific scales Eng vs. Disaffection with learning	Adol. health → Risk factors School adjustment → Minority or immigrant students	Designs Issues Methodological consistency New studies - other variables	Student support
24	Engels et al., 2017	Belgium	School Engagement 2D - B. & E. Skinner, 2009	Longitudinal Specific scales Eng vs. Disaffection with learning	Demographic charact. → Age/ grades Demographic charact. → Gender Peers, family, and community → Peer status	Designs Issues Methodological consistency Sample issues and studies replication New studies - other variables	Class., pedagogy and teachers Wide school approach
25	Engels et al., 2019	Finland	Student engagement 2D - B. & C. Unclear focus	Longitudinal Combined scales SEI- Cognitive Subscale + RAPS-SM	Adol. health → Risk factors Demographic charact. → Gender, Age/ grades and Parents Education Method & interv. → Concept and theory School adjustment → Academic achivement and School problems T-S relations → Relation	Sample issues and studies replication New studies - other engagement dimensions	Class., pedagogy and teachers
26	Farouk & Edwards, 2020	United Kingdom	Student engagement 3D - B., E. & C. Specific approach	Quasi-experimental Specific scales Student Engagement Scale	Method & interv. → Intervention	/	Student support Wide school approach
27	Fatou & Kubiszewski, 2018	France	Student engagement 3D - B., E. & C. Fredricks et al., 2004, 2005 3D	Cross sectional Specific scales SEM	Demographic charact. → Gender and Socioeconomic status School environment → Climate	Designs Issues Sample issues and studies replication New studies - other engagement dimensions	Wide school approach

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N.	Author Year	Country	Conceptual	Design & Measures	Topic → variables	Research	Intervention
28	Fernández-Lasarte et al., 2019	Spain	School Engagement 3D - B., E. & C. Fredricks et al., 2004, 2005 3D	Cross sectional Specific scales SEM	Demographic charact. → Age/ grades and Gender Peers, family, and community → Parenting and Peer relation and friendship T-S relations → Support	Designs Issues Methodological consistency	Class., pedagogy and teachers Student support Wide school approach
29	Fonsêca et al., 2016	Brazil	Engagement in learning 3D - Vigour, Dedication & Absortion Schaufeli et al., 2006	Cross sectional Specific scales UWES-Students	Demographic charact. → Age/ grades School environment → School type School environment → Values	Sample issues and studies replication	Wide school approach
30	Fonsêca et al., 2020	Brazil	Engagement in learning 3D - Vigour, Dedication & Absortion Schaufeli et al., 2006	Cross sectional Specific scales UWES-Students	Adol. health → Strengths and positive attributes Demographic charact. → Gender School adjustment → School problems School environment → School type	Methodological consistency Sample issues and studies replication	/
31	Geng et al., 2020	China	Student engagement 3D - B., E. & C. Specific approach	Longitudinal Specific scales Chinese Student Engagement Measures	Demographic charact. → Cross cultural differences Peers, family, and community → Peer relation and friendship T-S relations → Relation	Methodological consistency Sample issues and studies replication	Class., pedagogy and teachers Student support Wide school approach
32	Gutiérrez et al., 2018	Angola	School Engagement 4D - B., E., C. & Agentic Reeve & Tseng, 2011	Cross sectional Specific scales SES-4D	Demographic charact. → Cross cultural differences School adjustment → Academic achievement School environment → Psychological needs T-S relations → Teaching methods	Designs Issues	/
33	Hakimzadeh et al., 2016	Iran	Engagement in learning 4D - B., Psychological, C. & Academic Specific approach	Cross sectional Specific scales Student Engagement in Academic Activities Scale	Adol. health → Well-being Peers, family, and community → Peer relation and friendship	Designs Issues	Class., pedagogy and teachers Student support
34	Harley et al., 2018	USA	Student engagement 2D - B. & E. Skinner, 2009	Quasi-experimental Specific scales Eng vs. Disaffection with learning	Method & interv. → Intervention	Designs Issues Methodological consistency	/

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N.	Author Year	Country	Conceptual	Design & Measures	Topic → variables	Research	Intervention
35	Harris et al., 2020	Turkey	Student engagement 3D - B., E. & C. Li & Lerner, 2013 3D	Longitudinal Specific scales BEC-SES	Peers, family, and community → Family relations	Methodological consistency Sample issues and studies replication	Family, Peers and Community Wide school approach
36	Hazel et al., 2014	USA	Student Engagement in School 3D - Aspirations, Belonging & Productivity Hazel et al., 2013	Cross sectional Specific scales SEI + SEM + SSEM	Method & interv. → Measures validation	Methodological consistency Sample issues and studies replication	Student support
37	Heffner & Antaramian, 2016	USA	Student engagement 3D - B., E. & C. Unclear focus	Cross sectional Combined scales SEM-Behavioral Subscale + SEI	Adol. health → Well-being Demographic charact. → Gender	Designs Issues Sample issues and studies replication New studies - other variables	Student support
38	Henstock et al., 2013	Australia	Engagement in learning 3D - B., E. & C. Unclear focus	Qualitative or review Interview, focus group, observation or review /	Method & interv. → Intervention	Sample issues and studies replication New studies - other variables	Class., pedagogy and teachers
39	Hill & Wang, 2015	USA	School Engagement 3D - B., E. & C. Specific approach	Longitudinal New or adapted items Combined scale (Wang & Fredricks, 2014)	Peers, family, and community → Parenting	Sample issues and studies replication	Family, Peers and Community
40	Hirschfeld & Gasper, 2011	USA	Both student-school engagement 3D - B., E. & C. Unclear focus	Longitudinal Combined scales Cognitive Engagement + School climate survey + Behaviours and homework	Adol. health → Risk factors Peers, family, and community → Parenting	Designs Issues Sample issues and studies replication	Family, Peers and Community Student support Wide school approach
41	Inman et al., 2020	Portugal	Student Engagement in School 3D - B., E. & C. Fredricks et al., 2004 3D	Cross sectional Specific scales SEI + School Engagement Survey (NCSE)	Method & interv. → Concept and theory	Sample issues and studies replication New studies - cultural specificities	/

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N.	Author Year	Cou ntry	Conceptual	Design & Measures	Topic → variables	Research	Intervent ion
42	Irvin, 2012	USA	Student engagement 2D - B. & E. Unclear focus	Longitudinal Combined scales Extracurricular Involvement Survey + Quality of School Life	Adol. health → Risk factors School adjustment → Academic achievement and Minority or immigrant students	Designs Issues Sample issues and studies replication	/
43	Jelas et al., 2016	Mala ysia	Student engagement 3D - B., E. & C. Lam, 2008, 2009	Cross sectional Specific scales Student Engagement in School Scale	Demographic charact. → Cross cultural differences Peers, family, and community → Parenting and Peer relation and friendship School adjustment → Academic achievement T-S relations → Teaching methods	Designs Issues Methodological consistency New studies - cultural specificities	Class., pedagogy and teachers Family, Peers and Communi ty
44	G. Jones & Lafrenie re, 2014	Canada	School Engagement 2D - Others Unclear focus	Cross sectional Specific scales Specific scale	Adol. health → Strengths and positive attributes	Methodological consistency Sample issues and studies replication	/
45	J. N. Jones, 2011	USA	Student engagement 2D - B. & E. Finn, 1989	Qualitative or review Interview, focus group, observation or review Interviews + Observation	School environment → Climate T-S relations → Relation	/	Class., pedagogy and teachers
46	J. M. Jones & Lee, 2020	USA	Both student-school engagement 4D - B., Psychological , C. & Academic Unclear focus	Quasi-experimental Scale and other methods RAPS-SM + RAPS-Teacher	Adol. health → Strengths and positive attributes	Sample issues and studies replication	Student support Wide school approach
47	Konold & Cornell, 2015	USA	Student engagement 2D - C. & E. Unclear focus	Longitudinal Specific scales Commitment to School scale	School environment → Climate	Designs Issues Methodological consistency	Wide school approach
48	Konold et al., 2017	USA	Student Engagement in School 2D - C. & E. Konold et al., 2014	Cross sectional Specific scales Commitment to School scale	School environment → Climate	Designs Issues Methodological consistency	Class., pedagogy and teachers Student support
49	Lacey et al., 2017	USA	Student Engagement in School 2D - C. & E. Konold et al., 2014	Cross sectional Specific scales Commitment to School scale	School environment → Violence	Designs Issues Methodological consistency	Wide school approach

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N.	Author Year	Country	Conceptual	Design & Measures	Topic → variables	Research	Intervention
50	Lam, Jimerson, et al., 2012	Hong Kong	Student engagement 3D - B., E. & C. Lam, 2008, 2009	Cross sectional Specific scales Student Engagement in School Scale	Demographic charact. → Gender Peers, family, and community → Parenting and Peer relation and friendship T-S relations → Support	Designs Issues Methodological consistency	Class., pedagogy and teachers Wide school approach
51	Lam et al., 2014	Hong Kong	Student engagement 3D - B., E. & C. Lam, 2008, 2009	Cross sectional Specific scales Student Engagement in School Scale	Method & interv. → Measures validation	Methodological consistency	Student support
52	Lamote et al., 2013	Belgium	Both student-school engagement 2D - B. & E. Fredricks et al., 2004 2D	Longitudinal New or adapted items School Quest. of Secondary Education	Demographic charact. → Age/ grades and Socioeconomic status School adjustment → Minority or immigrant students and School problems	Methodological consistency	Student support Wide school approach
53	Lara et al., 2018	Chile	Student engagement 3D - B., E. & C. Fredricks et al., 2004 3D	Cross sectional Specific scales Questionario de Compromisso Escolar	Method & interv. → Measures validation	Sample issues and studies replication	Student support
54	Lawson & Lawson, 2013	USA	Student engagement Other Review	Qualitative or review Interview, focus group, observation or review /	Method & interv. → Concept and theory	/	Class., pedagogy and teachers Wide school approach
55	Lawson & Masyn, 2015	USA	Student engagement Over 4D Specific approach	Longitudinal New or adapted items New Measure	Demographic charact. → Cross cultural differences and Socioeconomic status Method & interv. → Concept and theory School adjustment → Academic achievement	Designs Issues	Class., pedagogy and teachers Family, Peers and Community Wide school approach
56	J.-S. Lee, 2014	USA	Student engagement 2D - B. & E. Specific approach	Cross sectional New or adapted items PISA 2000	School adjustment → Academic achievement	Designs Issues Methodological consistency	Wide school approach

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N.	Author Year	Cou ntry	Conceptual	Design & Measures	Topic → variables	Research	Intervent ion
57	Lewis et al., 2011	USA	Student engagement 3D - B., E. & C. Fredricks et al., 2004 3D	Longitudinal Combined scales SEI-Cognitive Subscale + SEM-Behavioral Subscale + MSLSS-School Satisfaction Subscale	Adol. health → Well-being	Designs Issues Methodological consistency Sample issues and studies replication	Wide school approach
58	Li & Lerner, 2011	USA	School Engagement 2D - B. & E. Fredricks et al., 2004 2D	Longitudinal New or adapted items Profiles of Student Life: Attitudes and Behaviors + Specific items	Demographic charact. → Cross cultural differences, Gender and Socioeconomic status School adjustment → Academic achievement Adol. health → Risk factors	Designs Issues Methodological consistency Sample issues and studies replication	Wide school approach
59	Li, 2018	USA	Student engagement Other Review	Qualitative or review Interview, focus group, observation or review /	Demographic charact. → Cross cultural differences School adjustment → Minority or immigrant students and School problems T-S relations → Relation	Designs Issues Methodological consistency	/
60	Lyons et al., 2013	USA	Both student-school engagement 3D - B., E. & C. Fredricks et al., 2004 3D	Longitudinal Combined scales SEI-Cognitive Subscale + SEM-Behavioral Subscale + MSLSS-School Satisfaction Subscale + Situational Interest Survey	Adol. health → Well-being	Designs Issues Sample issues and studies replication	Student support Wide school approach
61	Malone et al., 2017	USA	Student Engagement in School 2D - C. & E. Konold et al., 2014	Cross sectional Specific scales Commitment to School scale	Demographic charact. → Parents Education School environment → School type	Designs Issues Methodological consistency New studies - other variables	Wide school approach
62	Martinez-Fuentes et al., 2020	USA	Academic Engagement 2D - B. & E. Skinner, 2009 including disafection	Cross sectional Specific scales Eng vs. Disafection with learning	School adjustment → Minority or immigrant students	Sample issues and studies replication New studies - other engagement dimensions New studies - other variables	Class., pedagogy and teachers Student support

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N.	Author Year	Cou ntry	Conceptual	Design & Measures	Topic → variables	Research	Intervent ion
63	McDer mott et al., 2016	USA	Academic Engagement 2D - C. & E. Li & Lerner, 2013 2D	Cross sectional Combined scales BEC-SES (2D)	Adol. health → Strengths and positive attributes	New studies - other variables	/
64	McGill et al., 2012	USA	Academic Engagement 2D - B. & E. Unclear focus	Longitudinal Specific scales Academic Adjustment	Peers, family, and community → Parenting School adjustment → Minority or immigrant students	Methodological consistency Sample issues and studies replication	Class., pedagogy and teachers Family, Peers and Community Wide school approach
65	McKella r et al., 2020	USA	Both student-school engagement 2D - B. & E. Skinner, 2009	Longitudinal Specific scales Eng vs. Disaffection with learning	T-S relations → Teaching methods	Designs Issues New studies - other engagement dimensions	Class., pedagogy and teachers Student support
66	Molinari & Mameli, 2018	Italy	Both student-school engagement 4D - B., E., C. & Agentic Reeve & Tseng, 2011	Qualitative or review Combined scales Student Engagement in School Scale + Agentic engagement	Demographic charact. → Age/ grades and Gender Method & interv. → Concept and theory School environment → Psychological needs and Values	Sample issues and studies replication	Student support Wide school approach
67	Molin- Karakoc & Ikola, 2019	Finla nd	Engagement in learning Other Unclear focus	Qualitative or review Interview, focus group, observation or review /	School adjustment → Minority or immigrant students T-S relations → Relation	/	Wide school approach
68	Moreira, Cunha, et al., 2020	Port ugal	Student engagement Over 4D Moreira, Cunha et al., 2020	Cross sectional Specific scales SEI + School Engagement Survey (NCSE) + MMSE	Adol. health → Well-being Method & interv. → Measures validation School adjustment → Academic achievement	Sample issues and studies replication New studies - cultural specificities	Student support
69	Moreira & Dias, 2019	Port ugal	Student engagement 2D - C. & E. Appleton et al., 2006	Cross sectional Specific scales SEI	Method & interv. → Measures validation	/	/
70	Moreira, Faria, et al., 2020	Port ugal	Student engagement 2D - C. & E. Appleton et al., 2006	Cross sectional Specific scales SEI	Adol. health → Strengths and positive attributes	Designs Issues Methodological consistency Sample issues and studies replication	/

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N.	Author Year	Cou ntry	Conceptual	Design & Measures	Topic → variables	Research	Intervent ion
71	Moreira, Inman, et al., 2020	Portugal	Student Engagement in School Over 4D Moreira, Cunha et al., 2020	Cross sectional Specific scales MMSE	Adol. health → Strengths and positive attributes	Designs Issues Methodological consistency Sample issues and studies replication	Class., pedagogy and teachers Student support Wide school approach
72	Moreira et al., 2014	Portugal	School Engagement 2D - C. & E. Appleton et al., 2006	Quasi-experimental Specific scales SEI	Method & interv. → Intervention	Methodological consistency Sample issues and studies replication	Student support
73	Moses & Villodas, 2017	USA	School Engagement 4D - Others Unclear focus	Cross sectional New or adapted items Observation	Peers, family, and community → Peer relation and friendship	Designs Issues Methodological consistency New studies - other variables	Family, Peers and Community Student support
74	Mustafa a et al., 2017	USA	School Engagement 3D - B., E. & C. Fredricks et al., 2004, 2005 3D	Longitudinal Specific scales SEM	T-S relations → Support /		Class., pedagogy and teachers
75	Nayir, 2017	Turkey	Class. Engagement 3D - Others Specific approach	Cross sectional Specific scales Student Class Engagement Scale	School adjustment → Motivation	New studies - other variables	Student support Wide school approach
76	Olivier et al., 2020	Canada	Both student-school engagement 3D - B., E. & C. Fredricks et al., 2004 3D	Cross sectional Specific scales Dimensions of School Engagement Scale	Adol. health → Risk factors	Designs Issues Methodological consistency New studies - cultural specificities	Student support
77	Orkibi & Tuaf, 2017	Israel	Both student-school engagement 3D - Vigour, Dedication & Absortion Schaufeli et al., 2006	Cross sectional Specific scales UWES-Students	School environment → School type	Designs Issues Methodological consistency	Class., pedagogy and teachers
78	Pan & Zaff, 2019	China	School Engagement 3D - B., E. & C. Li & Lerner, 2013 3D	Cross sectional Specific scales BEC-SES	Method & interv. → Measures validation	Sample issues and studies replication New studies - cultural specificities	/

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N.	Author Year	Country	Conceptual	Design & Measures	Topic → variables	Research	Intervention
79	Pan et al., 2017	USA	Academic Engagement 2D - C. & E. Li & Lerner, 2013 2D	Cross sectional Combined scales BEC-SES (2D)	Adol. health → Strengths and positive attributes Peers, family, and community → Parenting School adjustment → School problems T-S relations → Support	Designs Issues New studies - other variables	Student support Wide school approach
80	Parker & Wilkins, 2018	USA	Student engagement 3D - B., E. & C. Fredricks et al., 2004 3D	Qualitative or review Interview, focus group, observation or review /	Adol. health → Strengths and positive attributes	Sample issues and studies replication New studies - other variables	Student support Wide school approach
81	Peterson et al., 2020	United Kingdom	Student Engagement in School 4D - Others Unclear focus	Longitudinal Specific scales Beyond Blue School Climate Questionnaire	Adol. health → Risk factors	Designs Issues New studies - other variables	Wide school approach
82	Phan et al., 2016	Australia	Academic Engagement 3D - B., E. & C. Fredricks et al., 2004, 2005 3D	Cross sectional Combined scales SEM-Behavioral Subscale + Students' Engagement in Math. Learning	Adol. health → Strengths and positive attributes and Well-being School adjustment → Academic achievement	Designs Issues Sample issues and studies replication	Student support
83	Pöysä et al., 2020	Finland	Situational engagement 3D - B., E. & C. Fredricks et al., 2004 3D	Longitudinal Combined scales Rochester Assessment Package for Schools + SEI	Demographic charact. → Gender School adjustment → Academic achievement, Educational aspirations and School problems	/	Student support Wide school approach
84	Pöysä et al., 2019	Finland	Situational engagement Over 4D Specific approach	Mix methods Specific scales InSitu	Demographic charact. → Gender T-S relations → Teaching methods	Methodological consistency Sample issues and studies replication	Class., pedagogy and teachers
85	Prata et al., 2019	Portugal	Student engagement 4D - B., E., C. & Agentic Reeve & Tseng, 2011	Quasi-experimental Specific scales SES-4D	Method & interv. → Intervention	Designs Issues	/
86	Qahri-Saremi & Turel, 2016	USA	School Engagement 3D - B., E. & C. Fredricks et al., 2004 3D	Cross sectional New or adapted items Student's Educational Aspiration + Specific items	Adol. health → Information and communication technologies T-S relations → Support	New studies - other variables	/

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N.	Author Year	Cou ntry	Conceptual	Design & Measures	Topic → variables	Research	Intervention
87	Quin, 2017	Aust ralia	Student engagement Other Review	Qualitative or review Interview, focus group, observation or review /	T-S relations → Relation	Designs Issues / Methodological consistency New studies - broader development New studies - other engagement dimensions and other variables	
88	Quin et al., 2018	Aust ralia	Both student-school engagement Over 4D Unclear focus	Longitudinal New or adapted items Communities That Care Survey + Specific items	Peers, family, and community → Peer relation and friendship School adjustment → School problems T-S relations → Relation	Designs issues Methodological consistency New studies - broader development	Student support Wide school approach
89	Raftery-Helmer & Grolnick, 2018	USA	Class. Engagement 3D - B., E. & C. Specific approach	Cross sectional Specific scales School Engagement	Adol. health → Strengths and positive attributes Peers, family, and community → Parenting T-S relations → Support	Designs Issues Methodological consistency	Class., pedagogy and teachers Family, Peers and Community Student support
90	Ramos-Díaz, Rodríguez-Fernández, & Revuelta, 2016	Spai n	School Engagement 3D - B., E. & C. Fredricks et al., 2004, 2005 3D	Cross sectional Specific scales SEM	Demographic charact. → Age/grades Method & interv. → Measures validation School adjustment → Academic achievement	Methodological consistency	Class., pedagogy and teachers
91	Ramos-Díaz, Rodríguez-Fernández, Revuelta, et al., 2016	Spai n	School Engagement 3D - B., E. & C. Fredricks et al., 2004, 2005 3D	Cross sectional Specific scales SEM	Adol. health → Well-being T-S relations → Relation	Designs Issues Methodological consistency Sample issues and studies replication	Class., pedagogy and teachers
92	Rangvid, 2018	Den mark	Student engagement 2D - B. & E. Unclear focus	Cross sectional New or adapted items	School adjustment → School problems	/	Student support
93	Raufelder et al., 2016	Ger man y	School Engagement 2D - B. & E. Skinner, 2009 including disaffection	Cross sectional Specific scales Eng vs. Disaffection with learning	School adjustment → Motivation	Designs Issues Methodological consistency Sample issues and studies replication	Class., pedagogy and teachers Wide school approach

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N.	Author Year	Country	Conceptual	Design & Measures	Topic → variables	Research	Intervention
94	Raufelder et al., 2015	Germany	School Engagement 2D - B. & E. Finn, 1989	Cross sectional Specific scales Eng vs. Disaffection with learning	Adol. health → Strengths and positive attributes Peers, family, and community → Peer relation and friendship T-S relations → Relation	Designs Issues Methodological consistency New studies - cultural specificities	Student support Wide school approach
95	Reschly et al., 2014	USA	Student engagement 2D - C. & E. Appleton et al., 2006	Cross sectional Combined scales SEI + Motivation-Engagement Scale	Method & interv. → Measures validation	Sample issues and studies replication New studies - disengagement New studies - other variables	/
96	Rodríguez-Fernández et al., 2018	Spain	School Engagement 3D - B., E. & C. Fredricks et al., 2004, 2005 3D	Cross sectional Specific scales SEM	Adol. health → Strengths and positive attributes Peers, family, and community → Family relations and Peer relation and friendship	Designs Issues	Class., pedagogy and teachers Student support Wide school approach
97	Rodríguez-Fernández et al., 2016	Spain	School Engagement 3D - B., E. & C. Fredricks et al., 2004, 2005 3D	Cross sectional Specific scales SEM	Adol. health → Strengths and positive attributes Demographic charact. → Age/grades and Gender	Designs Issues Sample issues and studies replication	/
98	Rueda et al., 2020	Spain	Student engagement 3D - B., E. & C. Fredricks et al., 2019	Cross sectional Specific scales Specific items	Demographic charact. → Gender School adjustment → Minority or immigrant students and School problems	/	/
99	Saeki & Quirk, 2015	USA	Student engagement 3D - B., E. & C. Lam, 2008, 2009	Cross sectional New or adapted items Student Engagement in School Quest + Specific items	Adol. health → Well-being School environment → Psychological needs	Sample issues and studies replication	Class., pedagogy and teachers Student support Wide school approach
100	Schroeter et al., 2015	USA	Both student-school engagement 3D - Others Unclear focus	Mix methods Combined scales SEI-Cognitive Subscale	T-S relations → Relation	Sample issues and studies replication	Class., pedagogy and teachers Student support
101	Shoshani, Nakash, et al., 2016	Israel	School Engagement 3D - B., E. & C. Fredricks et al., 2004 3D	Cross sectional Specific scales School Engagement Survey, NCSE	School adjustment → Minority or immigrant students	Designs Issues Sample issues and studies replication	Wide school approach

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N.	Author Year	Country	Conceptual	Design & Measures	Topic → variables	Research	Intervention
102	Shoshani, Steinmetz, et al., 2016	Israel	School Engagement 3D - B., E. & C. Fredricks et al., 2004 3D	Quasi-experimental New or adapted items School Engagement Survey, NCSE	Adol. health → Well-being Method & interv. → Intervention	Methodological consistency Sample issues and studies replication	/
103	Smart et al., 2019	Australia	School Engagement 2D - Others Unclear focus	Longitudinal New or adapted items Devised School Problems Scale	School adjustment → School problems	Sample issues and studies replication	Student support
104	Stefansson et al., 2018	Iceland	School Engagement 3D - B., E. & C. Li & Lerner, 2013 3D	Longitudinal Specific scales BEC-SES	Adol. health → Strengths and positive attributes School adjustment → School problems	Methodological consistency Sample issues and studies replication	/
105	Stefansson et al., 2016	Iceland	School Engagement 3D - B., E. & C. Li & Lerner, 2013 3D	Cross sectional Specific scales BEC-SES	Method & interv. → Measures validation School adjustment → Academic achievement	Methodological consistency Sample issues and studies replication	/
106	Storlie & Toomey, 2020	USA	School Engagement 3D - B., E. & C. Fredricks et al., 2004, 2005 3D	Cross sectional Specific scales SEM	Adol. health → Strengths and positive attributes School adjustment → Academic achievement and Minority or immigrant students School environment → Values	Designs Issues	Student support Wide school approach
107	Suldo et al., 2018	USA	Student engagement 3D - B., E. & C. Unclear focus	Cross sectional Combined scales Attitude Teacher, School & Program + Participation extracurricular activities + Student expectation	Adol. health → Risk factors School adjustment → Academic achievement	Designs Issues	Class., pedagogy and teachers Family, Peers and Community Student support
108	Tas, 2016	Turkey	Student engagement 4D - B., E., C. & Agentic Reeve & Tseng, 2011	Cross sectional Specific scales Academic Engagement Scale	Demographic charact. → Gender School adjustment → Motivation and School problems School environment → Values T-S relations → Support	Designs Issues Methodological consistency New studies - other variables	/

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N.	Author Year	Country	Conceptual	Design & Measures	Topic → variables	Research	Intervention
109	Tomás et al., 2016	Spain	School Engagement 4D - B., E., C. & Agentic Reeve & Tseng, 2011	Cross sectional Specific scales SES-4D + Escala Unidimensional de Compromiso Escolar	Method & interv. → Measures validation	Sample issues and studies replication	/
110	Tomaszek, 2020	Poland	Student Engagement in School 3D - Aspirations, Belonging & Productivity Hazel et al., 2013	Cross sectional Specific scales SSEM	School adjustment → School problems	Designs Issues Methodological consistency Sample issues and studies replication	Class., pedagogy and teachers Family, Peers and Community
111	Tomaszewski et al., 2020	Australia	Student engagement 3D - B., E. & C. Unclear focus	Cross sectional New or adapted items	Demographic charact. → Socioeconomic status	Methodological consistency Sample issues and studies replication	Student support
112	Totura et al., 2014	USA	Student engagement 3D - B., E. & C. Unclear focus	Cross sectional Scale and other methods Combined scale	School environment → Violence	Designs Issues Sample issues and studies replication	Student support Wide school approach
113	Van Ryzin, 2011	USA	Engagement in learning 2D - B. & E. Skinner, 2009 including disaffection	Longitudinal Specific scales Eng vs. Disaffection with learning	Adol. health → Strengths and positive attributes School environment → Psychological needs	Designs Issues Methodological consistency Sample issues and studies replication	Class., pedagogy and teachers Family, Peers and Community Student support Wide school approach
114	Veiga et al., 2015	Portugal	Student Engagement in School 4D - B., E., C. & Agentic Reeve & Tseng, 2011	Cross sectional Specific scales SES-4D	Adol. health → Strengths and positive attributes Demographic charact. → Age/grades	Designs Issues	/
115	Venta et al., 2019	USA	School Engagement 2D - B. & E. Skinner, 2009 including disaffection	Cross sectional Specific scales Eng vs. Disaffection with learning	Adol. health → Risk factors and Strengths and positive attributes Peers, family, and community → Prosocial behavior School adjustment → Minority or immigrant students	Methodological consistency Sample issues and studies replication New studies - other variables	Student support

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N.	Author Year	Country	Conceptual	Design & Measures	Topic → variables	Research	Intervention
116	Virtanen et al., 2018	Finland	Student engagement 2D - B. & C. Specific approach	Cross sectional Combined scales SEI-Cognitive Subscale + RAPS-SM	Adol. health → Risk factors and positive attributes Demographic charact. → Gender and Socioeconomic status Peers, family, and community → Parenting and Peer relation and friendship School adjustment → Academic achievement, Educational aspirations and School problems T-S relations → Support	Designs Issues Methodological consistency New studies - cultural specificities	Student support Wide school approach
117	Voisin et al., 2011	USA	School Engagement 2D - Others Unclear focus	Cross sectional Interview, focus group, observation or review GPA + Teachers Scale	Peers, family, and community → Community violence	Designs Issues Methodological consistency Sample issues and studies replication New studies - other variables	Student support Wide school approach
118	Vollet et al., 2017	USA	Both student-school engagement 2D - B. & E. Skinner, 2009	Longitudinal Interview, focus group, observation or review Teacher Scale	Peers, family, and community → Peer relation and friendship T-S relations → Relation	Designs Issues Methodological consistency New studies - other variables	Class., pedagogy and teachers
119	Wallace & Chhoun, 2014	USA	Both student-school engagement 2D - B. & E. Skinner, 2009 including disaffection	Qualitative or review Interview, focus group, observation or review /	School adjustment → Minority or immigrant students T-S relations → Teaching methods	Designs Issues	/
120	Wang & Eccles, 2012a	USA	School Engagement 3D - B., E. & C. Wang et al., 2011	Longitudinal Combined scales Combined scale (Wang & Eccles, 2012)	Demographic charact. → Age/grades School adjustment → Academic achievement and Educational aspirations	Methodological consistency New studies - disengagement	Wide school approach
121	Wang & Eccles, 2012b	USA	School Engagement 3D - B., E. & C. Wang et al., 2011	Longitudinal Combined scales Combined scale (Wang & Eccles, 2012)	Demographic charact. → Age/grades and Gender Peers, family, and community → Parenting and Peer relation and friendship T-S relations → Support	Designs Issues Methodological consistency New studies - broader development	Wide school approach

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N.	Author Year	Country	Conceptual	Design & Measures	Topic → variables	Research	Intervention
122	Wang & Fredricks, 2014	USA	School Engagement 3D - B., E. & C. Wang et al., 2011	Longitudinal Combined scales Combined scale (Wang & Fredricks, 2014)	Adol. health → Risk factors School adjustment → School problems	Designs Issues New studies - cultural specificities	Family, Peers and Community Student support Wide school approach
123	Wang et al., 2019	USA	Both student-school engagement 4D - Others Wang et al., 2019	Mix methods Specific scales Multidimensional School Engagement Scale	Method & interv. → Concept and theory School adjustment → Academic achievement	Methodological consistency New studies - disengagement	Student support
124	Wang & Peck, 2013	USA	Both student-school engagement 3D - B., E. & C. Wang et al., 2011	Longitudinal Combined scales Combined scale (Wang & Peck, 2013)	Adol. health → Risk factors School adjustment → Academic achievement and Educational aspirations	Designs Issues Methodological consistency Sample issues and studies replication	Student support Wide school approach
125	Wang et al., 2011	USA	School Engagement 3D - B., E. & C. Fredricks et al., 2004 3D	Cross sectional New or adapted items New Measure	Demographic charact. → Cross cultural differences and Gender Method & interv. → Measures validation	Methodological consistency	Student support Wide school approach
126	C. Yang, Bear, et al., 2018	USA	Student engagement 2D - B. & E. Bear et al., 2014	Cross sectional Specific scales DSES–Student	Adol. health → Strengths and positive attributes Demographic charact. → Age/grades, Cross cultural differences and Gender Peers, family, and community → Peer relation and friendship T-S relations → Relation	Designs Issues Methodological consistency New studies - other variables	Class., pedagogy and teachers Student support Wide school approach
127	C. Yang, Sharkey, et al., 2018	USA	Student engagement 2D - B. & E. Bear et al., 2014	Cross sectional Specific scales DSES–Student	School environment → Climate, School type and Violence	Methodological consistency Sample issues and studies replication	Class., pedagogy and teachers Wide school approach
128	C. Yang et al., 2020	USA	Student engagement 2D - B. & E. Unclear focus	Cross sectional Specific scales DSES–Student	Adol. health → Information and communication technologies Demographic charact. → Age/grades School environment → Climate and Violence	Methodological consistency Sample issues and studies replication	Student support Wide school approach

STUDENT ENGAGEMENT SCOPING REVIEW

N.	Author Year	Country	Conceptual	Design & Measures	Topic → variables	Research	Intervention
129	G. Yang et al., 2017	United Arab Emirates	Student engagement 3D - B., E. & C. Unclear focus	Cross sectional New or adapted items Cognitive Eng. + Specific items	Demographic charact. → Cross cultural differences	Designs Issues Sample issues and studies replication New studies - other variables	/
130	Yuen, 2016	Hong Kong	School Engagement 3D - B., E. & C. Fredricks et al., 2004, 2005 3D	Cross sectional Specific scales SEM	Adol. health → Well-being Demographic charact. → Gender, Parents Education and Socioeconomic status Peers, family, and community → Social support	Designs Issues Methodological consistency Sample issues and studies replication	/
131	Yusof et al., 2017	Singapore	School Engagement 3D - B., E. & C. Fredricks et al., 2004, 2005 3D	Cross sectional Specific scales SEM	Demographic charact. → Cross cultural differences Method & interv. → Measures validation	Methodological consistency	/
132	Yusof et al., 2018	Singapore	School Engagement 3D - B., E. & C. Fredricks et al., 2004 3D	Cross sectional Interview, focus group, observation or review	Peers, family, and community → Peer relation and friendship School environment → Climate and Values T-S relations → Relation	Designs Issues Sample issues and studies replication New studies - other variables	Student support Wide school approach
133	Zendar ski et al., 2017	Australia	School Engagement 3D - B., E. & C. Unclear focus	Cross sectional Scale and other methods Student Attitudes to school + Suspension	School adjustment → School problems	Designs Issues	/
134	Zhang et al., 2019	USA	Academic Engagement 3D - B., E. & C. Unclear focus	Longitudinal Combined scales Eng vs. Disaffection with learning + Metacognitive scales	Demographic charact. → Cross cultural differences Peers, family, and community → Peer status	Sample issues and studies replication	Class., pedagogy and teachers Student support
135	Zhen et al., 2020	China	Academic Engagement 2D - B. & E. Li & Lerner, 2013 2D	Longitudinal Specific scales Revised School Engagement Scale	Adol. health → Risk factors and positive attributes Peers, family, and community → Social support	Sample issues and studies replication	Class., pedagogy and teachers Family, Peers and Community Student support Wide school approach

## Note.

Abbreviations used: B. for behavior, E. for emotional, and C. for cognitive. Adol. for adolescent, T-S relation for Teacher Student Relation, Charact. for characteristics, Class. for Classroom, and Method. & Interv. for methodology and intervention.

In the Conceptual column, the expression *Unclear focus* refers to articles where the theoretical focus was considered not to be clear.

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