

Appendix 3

Summary of the reviewed studies

Row	Author(s)	Year	Title	Publication
1	Yi-Chun Chen	2013	The effectiveness of different approaches to media literacy in modifying adolescents' responses to alcohol	Journal of Health Communication
2	Yvonne Chen, Kathleen Porter, Wen You, Paul Estabrooks, & Jamie Zoellner	2020	A health/media literacy intervention improves adults' interpretations of sugar-sweetened beverage advertising	Journal of Media Literacy Education
3	Alemay, J; Del Val, E; Garcia-Fornes, A	2020	Assessing the effectiveness of a gamified social network for applying privacy concepts: an empirical study with teens	IEEE Transactions on Learning Technologies
4	Joseph Njiku, Védaste Mutarutinya, & Jean François Maniraho	2021	Building mathematics teachers' TPACK through collaborative lesson design activities	Contemporary Educational Technology
5	Siân A McLean, Eleanor H Wertheim, Mathew D Marques and Susan J Paxton	2019	Dismantling prevention: comparison of outcomes following media literacy and appearance comparison modules in a randomised controlled trial	Journal of Health Psychology
6	Garcia-Perales, R; Palomares-Ruiz, A	2020	Education in programming and mathematical learning: functionality of a programming language in educational processes	Sustainability
7	Sumitra Badrinathan	2021	Educative interventions to combat misinformation: evidence from a field experiment in India	American Political Science Review
8	David S. Bickham & Ronald G. Slaby	2012	Effects of a media literacy program in the us on children's critical evaluation of unhealthy media messages about violence, smoking, and food	Journal of Children and Media
9	Theresa Webb & Kathryn Martin	2012	Evaluation of a us school-based media literacy violence prevention curriculum on changes in knowledge and critical thinking among adolescents	Journal of Children and Media
10	Guest, E; Jarman, H; Sharratt, N; Williamson, H; White, P; Harcourt, D; Slater, A; VTCT Fdn Res Team Ctr Appearance	2020	Everybody's different: the appearance game?. A randomised controlled trial evaluating an appearance-related board game intervention with children aged 9-11 years	Body Image
11	Tosti H. C. Chiang , Chih-Shan Liao and Wei-Ching Wang	2022	Impact of artificial intelligence news source credibility identification system on effectiveness of media literacy education	Sustainability
12	Jessica E. Brodsky, Patricia J. Brooks, Donna Scimeca, Ralitsa Todorova, Peter Galati, Michael Batson, Robert Grosso, Michael Matthews, Victor Miller & Michael Caulfield	2021	Improving college students' fact-checking strategies through lateral reading instruction in a general education civics course	Cognitive Research: Principles and Implications
13	Ibieta, A; Hinostraza, JE; Labbe, C	2019	Improving students' information problem-solving skills on the web through explicit instruction and the use of customized search software	Journal of Research on Technology in Education
14	Ümmühan Ormanci & Salih Cepni	2020	Investigating the effects of web-based science material for guided inquiry approach on information and communication skills of students	Participatory Educational Research
15	Hannah Lane, Kathleen J. Porter, Erin Hecht, Priscilla Harris,, Vivica Kraak and Jamie Zoellner	2018	Kids SIPsmarter: a feasibility study to reduce sugar-sweetened beverage consumption among middle school youth in central Appalachia	American Journal of Health Promotion

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16	Scheibenzuber, C; Nistor, N	2019	Media literacy training against fake news in online media	European Conference on Technology Enhanced Learning
17	Marisol Mora, Eva Penelo, , Rocío Rosés, Marcela L. González, Paola Espinoza, Josep Deví, Rosa M. Raich	2017	Pilot assessment of two disordered eating prevention programs. Preliminary findings on maladaptive beliefs related to eating disorders	Eating Behaviors
18	Renaë Y. Regehr, Rhea L. Owens, Daniel W. Cox, & Caydeen C. Clayton	2020	Piloting free to be: a positive body image program for adolescents	The Counseling Psychologist
19	Galli, F; Palombi, T; Mallia, L; Chirico, A; Zandonai, T; Alivernini, F; De Maria, A; Zelli, A; Lucidi, F	2021	Promoting media literacy online: an intervention on performance and appearance enhancement substances with sport high school students	International Journal of Environmental Research and Public Health
20	Tracy Scull, Christina Malik, Abigail Morrison, Elyse Keefe	2021	Promoting sexual health in high school: a feasibility study of a web-based media literacy education program	Journal of Health Communication
21	Natalie C. Tamplina, Siân A. McLeanb, Susan J. Paxton	2018	Social media literacy protects against the negative impact of exposure to appearance ideal social media images in young adult women but not men	Body Image Journal
22	Riyadh Alhassan	2017	The effect of employing self-explanation strategy with worked examples on acquiring computer programming skills	Journal of Education and Practice
23	Adem Yilmaz	2021	The effect of technology integration in education on prospective teachers' critical and creative thinking, multidimensional 21st century skills and academic achievements	Participatory Educational Research
24	Handan Atun & Ertugrul Usta	2019	The effects of programming education planned with TPACK framework on learning outcomes	Participatory Educational Research
25	Chen, CM; Li, MC; Chen, YT	2022	The effects of web-based inquiry learning mode with the support of collaborative digital reading annotation system on information literacy instruction	Computers & Education
26	Mingoia, J; Hutchinson, AD; Gleaves, DH; Wilson, C	2019	The impact of a social media literacy intervention on positive attitudes to tanning: a pilot study	Computers in Human Behavior
27	Mallia L, Chirico A, Zelli A, Galli F, Palombi T, Bortoli L, Conti C, Diotaiuti P, Robazza C, Schena F, Vitali F, Zandonai T, Lucidi F.	2020	The implementation and evaluation of a media literacy intervention about paes use in sport science students	Frontiers in Psychology
28	Sánchez-Carracedo D, Fauquet J, López-Guimerà G, Leiva D, Puntí J, Trepát E, Pàmias M, Palao D.	2016	The MABIC project: an effectiveness trial for reducing risk factors for eating disorders	Behaviour Research and Therapy
29	Marcus Butavicius, Ronnie Taib and Simon J. Han	2022	Why people keep falling for phishing scams: the effects of time pressure and deception cues on the detection of phishing emails	Computers & Security
30	Enga, N., DiRussob, C., Troya, C., Freemanc, J., Liaoa, M., & Sun, Y.	2021	'I had no idea that greenwashing was even a thing': identifying the cognitive mechanisms of exemplars in greenwashing literacy interventions.	Environmental Education Research
31	McLean, S., Wertheim, EH, Masters, J., and Paxton, S.	2017	A pilot evaluation of a social media literacy intervention to reduce risk factors for eating disorders.	International Journal of Eating Disorders
32	Nuncio, R., Arcinas, M., Lucas, R., Alontaga, J., Ner, S., Carpena, J.	2020	An e-learning outreach program for public schools: findings and lessons learned based on a pilot program in Makati city and Cabuya city, Laguna, Philippines	Evaluation and Program Planning
33	Tsai, Chia-Wen	2015	Applying web-based co-regulated learning to develop students' learning and	Interactive Learning Environments

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			involvement in a blended computing course	
34	Mo, Di; Swinnen, Johan; Zhang, Linxiu; Yi, Hongmei; Qu, Qinghe; Boswell, Matthew; Rozelle, Scott	2013	Can one-to-one computing narrow the digital divide and the educational gap in China? The case of Beijing migrant schools	World Development
35	Domgaard, Sh., & Park, M.	2021	Combating misinformation: the effects of infographics in verifying false vaccine news	Health Education Journal
36	Ellen Vanderhoven, E., Schellens, T., & Valcke, M.	2016	Decreasing risky behavior on social network sites: the impact of parental involvement in secondary education interventions	Journal of Primary Prevent
37	Rivera, Reynaldo; Santos, David; Brändle, Gaspar; Cárdbaba, Miguel Ángel M.	2016	Design effectiveness analysis of a media literacy intervention to reduce violent video games consumption among adolescents: the relevance of lifestyles segmentation	Evaluation Review
38	Vanderhoven, E., Schellens, T., & Valcke, M.	2014	Educating teens about the risks on social network sites. An intervention study in secondary education	Media Education Research Journal
39	Maureen, Irena Y; van der Meij, Hans; de Jong, Ton	2020	Enhancing storytelling activities to support early (digital) literacy development in early childhood education	International Journal of Early Childhood
40	Young, Jimmy A.	2018	Equipping future nonprofit professionals with digital literacies for the 21st century	Journal of Nonprofit Education and Leadership
41	Gordon, C. S., Howard, S. J., Jones, S. C. & Kervin, L. K.	2016	Evaluation of an Australian alcohol media literacy program.	Journal of Studies on Alcohol and Drugs
42	Tsai, Chia-Wen	2016	Exploring the effects of online team-based learning and co-regulated learning on students' development of computing skills	Interactive Learning Environments
43	McGrew, Sarah; Smith, Mark; Breakstone, Joel; Ortega, Teresa; Wineburg, Sam	2019	Improving university students' web savvy: an intervention study	British Journal of Educational Psychology
44	Baker, Doris Luft; Ma, Hao; Gallegos, Elisa	2019	Increasing parental knowledge through workshops on early childhood programs, home literacy, and technology use	Bilingual Research Journal
45	Othelia EunKyoung Leea, Do-Hong Kimb, Hyenjoo Leec, and Kyung Ah Beum	2022	Information communication technology use to improve ehealth literacy, technophobia, and social connection among community dwelling older adults	Routledge Taylor & Francis Group
46	Vraga, E. & Tully, M.	2015	Media literacy messages and hostile media perceptions: processing of nonpartisan versus partisan political information	Mass Communication and Society
47	Czaja, Sara J; Lee, Chin Chin; Branham, Janice; Remis, Peggy	2012	Oasis connections: results from an evaluation study	The Gerontologist
48	Goe, R., Ipsen, C., & Bliss, S.	2018	Pilot testing a digital career literacy training for vocational rehabilitation professionals	Rehabilitation Counseling Bulletin
49	Austin, E. W., Pinkleton, E. B., Chen, Y., & Austin, W. B	2015	Processing of sexual media messages improves due to media literacy effects on perceived message desirability	Mass Communication and Society
50	Steffi De Jans; Liselot Hudders; Laura Herrewijn; Klara van Geit; Veroline Cauberghe	2019	Serious games going beyond the call of duty: impact of an advertising literacy mini-game platform on adolescents' motivational outcomes through user experiences and learning outcomes	Cyberpsychology: Journal of Psychosocial Research on Cyberspace
51	Maureen, Irena Y; van der Meij, Hans; de Jong, Ton	2018	Supporting literacy and digital literacy development in early childhood education using storytelling activities	International Journal of Early Childhood
52	Ivar Bråten, Eva W. Brante and Helge I. Strømsø	2019	Teaching sourcing in upper secondary school: a comprehensive sourcing intervention with follow-up data	Reading Research Quarterly

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53	Williams-Diehm, Kendra L; Miller, Christina R; Sinclair, Tracy E; Wronowski, Meredith L	2018	Technology-based employability curriculum and culturally diverse learners with disabilities	Journal of Special Education Technology
54	Scull, T., Kupersmidt, J., & Weatherholt, T	2017	The effectiveness of online, family-based media literacy education for substance abuse prevention in elementary school children: study of the media detective family program	Journal of Community Psychology
55	Austin, W., Austin, B., French, B., Cohen, M.	2018	The effects of a nutrition media literacy intervention on parents' and youths' communication about food	Journal of Health Communication
56	Li-Ling Liao, Li-Chun Chang, Chia-Kuei Lee, Su-Ying Tsai	2020	The effects of a television drama-based media literacy initiative on Taiwanese adolescents' gender role attitudes	Sex Roles
57	Kevser Hava and Mehmet Fikret Gelibolu	2018	The impact of digital citizenship instruction through flipped classroom model on various variable	Contemporary Educational Technology
58	Pinkleton, B., Austin, E.W., Chen, Y., Y., Cohen, M.	2012	The role of media literacy in shaping adolescents' understanding of and responses to sexual portrayals in mass media	Journal of Health Communication
59	Maks, A., Stephanie Craft, S., Ashley, S. & Miller, D.	2017	The usefulness of a news media literacy measure in evaluating a news literacy curriculum	Journalism & Mass Communication Educator
60	Apuke, O.D.; Gever, C.V.	2023	A quasi experiment on how the field of librarianship can help in combating fake news	The Journal of Academic Librarianship
61	Ezeamuzie, N.O.	2022	Abstractive-based programming approach to computational thinking: discover, extract, create, and assemble	Journal of Educational Computing Research
62	Cheng, Y.-P.; Shen, P.-D.; Hung, M.-L.; Tsai, C.-W.; Lin, C.-H.; Hsu, L.C.	2022	Applying online content-based knowledge awareness and team learning to develop students' programming skills, reduce their anxiety, and regulate cognitive load in a cloud classroom	Universal Access in the Information Society
63	Zhichun Liu and Allan C. Jeong	2022	Connecting learning and playing: the effects of in-game cognitive supports on the development and transfer of computational thinking skills	Educational technology research and development
64	Romanova, G.; Petrenko, L.; Romanov, L.; Kupriyevych, V.; Antoniuk, L.	2022	Digital technologies as a driver of professional development of teachers of vocational education establishments	Youth Voice Journal
65	Kroon, A.C.; Van Der Meer, T.G.L.A.; Pronk, T.	2022	Does information about bias attenuate selective exposure? The effects of implicit bias feedback on the selection of outgroup-rich news	Human Communication Research
66	VANDERHOVEN, ELLEN; SCHELLEN, TAMMY; VALCKE, MARTIN	2014	Educating teens about the risks on social network sites. An intervention study in secondary education.	Comunicar
67	Hocheol Lee, Joo-Aeh Lim and Hae-Kweun Nam.	2022	Effect of a digital literacy program on older adults' digital social behavior: a quasi-experimental study	International Journal of Environmental Research and Public Health
68	Seraji, F.; Ansari, S.; Chosari, M.R.Y.	2022	Effect of community of inquiry method on media literacy competencies in elementary students	Education and Information Technologies
69	Zhang, L.; Iyendo, T.O.; Apuke, O.D.; Gever, C.V.	2022	Experimenting the effect of using visual multimedia intervention to inculcate social media literacy skills to tackle fake news	Journal of Information Science

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70	Blomberg, M.L.	2022	Going against the grain? Examining the efficacy of media literacy interventions on congenial media effects	Journal of Media Literacy Education
71	Chia-Wen Tsai, Pei-Di Shen, Yi-Chun Chiang & Chih-Hsien Lin	2016	How to solve students' problems in a flipped classroom: a quasi-experimental approach	Universal Access in the Information Society
72	van der Meer, T.G.L.A.; Hameleers, M.	2022	I knew it, the world is falling apart! Combatting a confirmatory negativity bias in audiences' news selection through news media literacy interventions	Digital Journalism
73	Kursch, M.	2021	Impact of a one-off demonstration on the use of ict in the teaching of andragogy students on their change of attitude towards the use of ict in education	International Journal of Cognitive Research in Science Engineering and Education
74	Omeh, C.B.; Olelewe, C.J.; Nwangwu, E.C.	2022	Impact of teaching computer programming using innovative pedagogy embedded with live online lectures and related tools: a randomized control trial	Computer Applications in Engineering Education
75	Chris Lam	2016	Improving technical communication group projects: an experimental study of media synchronicity theory training on communication outcomes	Journal of Business and Technical Communication
76	Agila-Palacios, M.V.; Muñoz-Repiso, A.G.-V.; Ramírez-Montoya, M.S.	2022	Influence of active methodologies: projects and cases in the development of digital competences with mobile devices	Journal of Applied Research in Higher Education
77	Ladislao Salmeron and Ana Llorens	2019	Instruction of digital reading strategies based on eye-movements modeling examples	Journal of Educational Computing Research
78	Wineburg, S.; Breakstone, J.; McGrew, S.; Smith, M.D.; Ortega, T.	2022	Lateral reading on the open internet: a district-wide field study in high school government classes	Journal of Educational Psychology
79	Oberiri Destiny Apukea, Bahiyah Omara, and Elif Asude Tunca	2022	Literacy concepts as an intervention strategy for improving fake news knowledge, detection skills, and curtailing the tendency to share fake news in Nigeria	Child & Youth Services
80	Isabel Rodríguez-de-Dios, Juan-José Igartua, Leen d'Haenens	2021	Narrative persuasion in a mobile environment: effectiveness of a mobile application for promoting digital skills and coping strategies in adolescents	International Journal of Communication
81	Chloe S. Gordon, Hannah K. Jarman, Rachel F. Rodgers, Siân A. McLean, Amy Slater, Matthew Fuller-Tyszkiewicz and Susan J. Paxton	2021	Outcomes of a cluster randomized controlled trial of the some social media literacy program for improving body image-related outcomes in adolescent boys and girls	Nutrients
82	Paola Espinoza, Eva Penelo, Rosa M. Raich	2013	Prevention programme for eating disturbances in adolescents. Is their effect on body image maintained at 30 months later?	Body Image
83	Zahra Khazir, Tahereh Dehdari, Mahmood Mahmoodi Majdabad & Said Pournaghash Tehrani	2016	Psychological aspects of cosmetic surgery among females: a media literacy training intervention	Global Journal of Health Science
84	E. Özlem Yiğit	2013	Science, technology and social change course's effects on technological literacy levels of social studies pre-service teachers	TOJET: The Turkish Online Journal of Educational Technology
85	Washington Luna Encalada and José Luis Castillo Sequera	2017	Social cloud for information technology skills: an experience with universities in Ecuador	Revista Iberoamericana de Tecnologías del Aprendizaje
86	Seifi, L., Habibi, M., & Ayati, M. (2020).	2020	The effect of information literacy instruction on lifelong learning readiness	International Federation of Library

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				Associations and Institutions
87	Humeniuk, T.; Prosandieieva, L.; Voronova, V.; Nedzvetska, O.; Chernihovets, T.; Solomatova, V.	2022	The effectiveness of gamification elements for the development of future culturologists' digital competence	Journal of Curriculum and Teaching
88	Ragazou, V.; Karasavvidis, I.	2022	The effects of blocked and massed practice opportunities on learning software applications with video tutorials	Journal of Computers in Education
89	Balykbayev, T.; Bidaibekov, E.; Grinshkun, V.; Kurmangaliyeva, N.	2022	The influence of interdisciplinary integration of information technologies on the effectiveness of it training of future teachers	Journal of Theoretical and Applied Information Technology
90	Liselot Hudders, Veroline Cauberghe & Katarina Panic	2016	How advertising literacy training affect children's responses to television commercials versus advergams	International Journal of Advertising
91	Ryan C. Moore & Jeffrey T. Hancock	2022	A digital media literacy intervention for older adults improves resilience to fake news	Scientific Reports
92	Andrew M. Guess, Michael Lerner, Benjamin Lyons, Jacob M. Montgomery, Brendan Nyhan, Jason Reifler and Neelanjan Sircar	2020	A digital media literacy intervention increases discernment between mainstream and false news in the united states and India	Proceedings of the National Academy of Sciences of the United States of America
93	Austin EW, Austin B, Kaiser CK, Edwards Z, Parker L, Power TG	2020	A media literacy-based nutrition program fosters parent-child food marketing discussions, improves home food environment, and youth consumption of fruits and vegetables	Childhood Obesity
94	Ariel Shensa, Jane Phelps-Tschang, Elizabeth Miller, Brian A. Primack	2015	A randomized crossover study of web-based media literacy to prevent smoking	Health Education Research
95	Jorge Reyna , Jose Hanham, Panos Vlachopoulos & Peter Meier	2019	A systematic approach to designing, implementing, and evaluating learner-generated digital media (LGDM) assignments and its effect on self-regulation in tertiary science education	Research in Science Education
96	Marisol Mora, Eva Penelo, Teresa Gutiérrez, Paola Espinoza, Marcela L. González, and Rosa M. Raich	2015	Assessment of two school-based programs to prevent universal eating disorders: media literacy and theatre-based methodology in Spanish adolescent boys and girls	The Scientific World Journal
97	Hannes Weber, Steffen Hillmert Karin Julia Rott	2018	Can digital information literacy among undergraduates be improved? Evidence from an experimental study	Teaching in Higher Education
98	Dinusha NC Cragg, Kate E Mulgrew and Lee Kannis-Dymand	2019	Can disclaimer labels or dove evolution commercial mitigate negative effects of thin-ideal exposure?	Journal of Health Psychology
99	Primack BA, Douglas EL, Land SR, Miller E, Fine MJ.	2014	Comparison of media literacy and usual education to prevent tobacco use: a cluster-randomized trial	Journal of School Health
100	Emily K. Vraga, Leticia Bode, Melissa Tully	2022	Creating news literacy messages to enhance expert corrections of misinformation on twitter	Communication Research
101	Andrea M. Bergstrom, Mark Flynn and Clay Craig	2018	Deconstructing media in the college classroom: a longitudinal critical media literacy intervention	Journal of Media Literacy Education (JMLE)
102	Ntima Mabanza and Lizette de Wet	2014	Determining the usability effect of pedagogical interface agents on adult computer literacy training	E-Learning Paradigms and Applications: Agent-based Approach
103	Jhon Holguin-Alvarez Paola Garay-Rodríguez Vasti Amasifuén-Sánchez Delsi Mariela Huaita Acha Freddy Felipe Luza Castillo Juana Cruz-Montero Fernando Ledesma-Pérez	2021	Digital competences in the elderly and university students: didactic interaction from the use of social networks	International Journal of Emerging Technologies in Learning (IJET)

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104	Lourdes Meroño , Antonio Calderón, and José L. Arias-Estero	2021	Digital pedagogy and cooperative learning: effect on the technological pedagogical content knowledge and academic performance of pre-service teachers	Revista de Psicodidáctica
105	Howard T. Welser, M. Laeeq Khan and Michael Dickard	2019	Digital remediation: social support and online learning communities can help offset rural digital inequality	Information, Communication & Society
106	Raquel Flores Buils , Antonio Caballer Miedes, and Mercedes Romero Oliver	2020	Effect of a cyberbullying prevention program integrated in the primary education curriculum	Revista De Psicodidáctica
107	Halil Ibrahim Yildirim & Onder Sensoy	2018	Effect of science teaching enriched with technological practices on attitudes of secondary school 7th grade students towards science course	Universal Journal of Educational Research
108	Birte Walther, Reiner Hanewinkel, and Matthis Morgenstern	2014	Effects of a brief school-based media literacy intervention on digital media use in adolescents: cluster randomized controlled trial	Cyberpsychology, Behavior, and Social Networking
109	Li-Ling Liao, I-Ju Lai, Li-Chun Chang, Chia-Kuei Lee	2016	Effects of a food advertising literacy intervention on Taiwanese children's food purchasing behaviors	Health Educational Research
110	Halil Coşkun ÇELİK	2015	Effects of computer course on computer self-efficacy, computer attitudes and achievements of young individuals' in Siirt, Turkey	Educational Research and Reviews
111	Manoli Pifarré, Esther Argelagós	2020	Embedded information problem-solving instruction to foster learning from digital sources: longitudinal effects on task performance	Sustainability
112	Gregory M. Francom, Andria L. Moon	2018	Enhancing educational technology confidence among teacher candidates: benefits of and lessons learned from a 1:1 device university-elementary school partnership	Journal of Information Technology Education: Research
113	Margie Ruppel, Sara Winstead Fry, Adil Bentahar	2016	Enhancing information literacy for preservice elementary teachers: a case study from the united states	New Review of Academic Librarianship
114	Dorit Alt, Nirit Raichel	2020	Enhancing perceived digital literacy skills and creative self-concept through gamified learning environments: insights from a longitudinal study	International Journal of Educational Research
115	Kathryn Fingar and Tessa Jolls	2013	Evaluation of a school-based violence prevention media literacy curriculum	Injury Prevention
116	Chia-Wen Tsai, Pei-Di Shen, Meng-Chuan Tsai & Wen-Yu Chen	2017	Exploring the effects of web-mediated computational thinking on developing students' computing skills in a ubiquitous learning environment	Interactive Learning Environments
117	David E Silva; Chan Chen; Ying Zhu	2022	Facets of algorithmic literacy: information, experience, and individual factors predict attitudes toward algorithmic systems	New media & society
118	Moria Golan, Shakked Benifla, Aviv Samo, Noa Alon and Maya Mozeikov	2022	Feasibility and effect of adding a concurrent parental component to a school-based wellness program using two modes of mobile-based technology – mixed methods evaluation of RCT	BMC Public Health
119	Francesco Caviglia & Manuela Delfino	2016	Foundational skills and dispositions for learning: an experience with information problem solving on the web	Technology, Pedagogy and Education