	ID	ID_F	FUENTE	ID_D	DUP	TITULO	AUTORES	RESUMEN	AÑO	CLAVES	OTRAS CLAVES	ARCHIVO	IDIOMA
1	101	1	SCOPUS	1	0	Developing Computational Thinking: D	Wang D.; Luo L.; Luo J.; Lin S.; Ren G.	As research progresses, integrating co	2022	computational thinking; design-based learning; graphical p	-	01_applsci-12-11033.pdf	0
2	102	1	SCOPUS	2	0	Robot programming versus block play	Yang W.; Ng D.T.K.; Gao H.	Programmable robotics is recently use	2022	block play; computational thinking; robot programming; sc	Curricula; Der	02_Brit J Educational Tec	0
3	103	1	SCOPUS	3	0	A simple interactive robot to promote	Funk M.; Cascalho J.; Santos A.I.; Pedr	This paper described the functionaliti	2022	computational thinking; educational robotics; PeCOT; play	-	03_fcomp-04-1022778.p	0
4	104	1	SCOPUS	4	0	Computational Thinking Development	Budiyanto C.W.; Fenyvesi K.; Lathifah	The delivery of science, technology, e	2022	Computational thinking; educational robotics; hands-on ac	-	04_EU-JER_11_4_1997.p	0
5	105	1	SCOPUS	5	0	Effects of a Pair Programming Educati	Hsu T.-C.; Chang C.; Wu L.-K.; Looi C.-	Using educational robots (ERs) to inte	2022	educational robots; interdisciplinary activities; language le	-	05_fpsyg-13-888215.pdf	0
6	106	1	SCOPUS	6	0	Computer Literacy in Early Childhood	Berciano-Alcaraz A.; Salgado-Somoza	Objective. In this work, we analyze th	2022	computer literacy; difficulties; Early childhood education;	-	06_13677-Article Text-71	1
7	107	1	SCOPUS	7	0	Computational Thinking and Educatio	Pou A.V.; Canaleta X.; Fonseca D.	In the context of the science, technol	2022	computational thinking; educational robotics; project-base	Educational ro	07_sensors-22-03746.pd	0
8	108	1	SCOPUS	8	0	Primary Mathematics Teachers' Unde	Nordby S.K.; Bjerke A.H.; Mifsud L.	Computational thinking (CT) is often r	2022	Artificial intelligence; Computational thinking; Mathematic	Artificial intell	08_s13218-021-00750-6.	0
9	109	1	SCOPUS	9	0	Exploring Measurement through Codi	Welch L.E.; Shumway J.F.; Clarke-Mid	Programming activities have the pote	2022	Coding toys; Computational thinking; Early childhood; Line	-	09_education-12-00143.p	0
10	110	1	SCOPUS	10	0	Coding with Block Programming Lang	Moraiti I.; Fotoglou A.; Drigas A.	The purpose of the article is to highlig	2022	Block-based programming; Coding; Critical thinking; Curric	-	10_59_Coding+with+Bloc	0
11	111	1	SCOPUS	11	0	Variables in early algebra: exploring d	Kilhamn C.; Bråting K.; Helenius O.; M	In this paper we consider implications	2022	Early algebra; Logos; Praxis; Programming; Scratch; Variab	-	11_s11858-022-01384-0.	0
12	112	1	SCOPUS	12	0	The Elements of Computational Think	Hanid M.F.A.; Mohamad Said M.N.H.;	Augmented Reality (AR) technology ha	2022	Augmented reality; computational thinking elements; geo	-	12_28_The+Elements+of	0
13	113	1	SCOPUS	13	0	Developing computational thinking te	Araya R.; Isoda M.; Moris J.M.	COVID-19 has been extremely difficult	2021	Computational modeling; Computational thinking; COVID-	COVID-19; Cu	13_ijerph-18-12520-v2.p	0
14	114	1	SCOPUS	14	0	Coding to learn Mathematics in 5th gr	Moreno-León J.; Román-González M.;	This article presents an investigation t	2021	Basic education; Computational thinking; Computer-assist	-	14_485441-Texto del arti	1
15	115	1	SCOPUS	15	0	Enriching elementary school mathem	Araya R.	The steepest descent (or ascent) algo	2021	Computational thinking; Elementary mathematics; Mathe	-	15_mathematics-09-011	0
16	116	1	SCOPUS	16	0	Programming as a language for young	Goldenberg E.P.; Carter C.J.	Natural language helps express mathe	2021	activity-based learning; coding; constructionism; mathema	Computer pro	16_Brit J Educational Tec	0
17	117	1	SCOPUS	17	0	Elementary students' first approach t	Kjällander S.; Mannila L.; Åkerfeldt A.;	Digital competence and programming	2021	Computational thinking; Design; K-12 education; Learning;	-	17_education-11-00080-	0
18	118	1	SCOPUS	18	0	Formation of Computational Thinking	Soboleva E.V.; Sabirova E.G.; Babieva	The research is relevant as educationa	2021	algorithm; challenges of the future; digital technologies; e	-	18_formation-of-comput	0
19	119	1	SCOPUS	19	0	A pilot experience with software prog	Arroyo A.C.; Montes M.R.; Quilis J.D.S	Software programming is one of the k	2021	Cloud comp	-	19_app11010341.pdf	0
20	120	1	SCOPUS	20	0	Exploring the intersection of algebraic	Bråting K.; Kilhamn C.	This article investigates how the recer	2021	Algebraic thinking; computational thinking; mathematics e	-	20_Exploring the intersec	0
21	121	1	SCOPUS	21	0	Generic tasks for algorithms	Milicic G.; Wetzel S.; Ludwig M.	Due to its links to computer science (C	2020	Algorithms; Computational thinking; Generic tasks; K-12; F	Computer aid	21_fi12090152.pdf	0
22	122	1	SCOPUS	22	0	On teaching programming fundament	Piedade J.; Dorotea N.; Pedro A.; Mat	This study aims to analyze how pre-se	2020	Computational thinking; Educational robotics; Pre-service	-	22_educsci10090214.pdf	0
23	123	1	SCOPUS	23	0	Investigating Preschool Educators' Im	Otterborn A.; Schönborn K.J.; Hultén	Modern preschool education is seen a	2020	Digital tablets; iPads; Programming; Science education; Sw	-	23_s10643-019-00976-y.	0
24	124	1	SCOPUS	24	0	Integrating Computational Thinking in	Waterman K.P.; Goldsmith L.; Pasqua	Using an example of a grade 3 science	2020	Computational thinking; Data; Elementary; Models; Scienc	-	24_s10956-019-09801-y.	0
25	125	1	SCOPUS	25	0	Improving computational thinking in s	Montes-León H.; Hijón-Neira R.; Pérez	The teaching-learning of programmin	2020	Computational thinking Secondary education Programmin	-	25_naza,+2444-8729-202	1
26	126	1	SCOPUS	26	0	The cognitive benefits of learning com	Scherer R.; Siddiq F.; Viveros B.S.	Does computer programming teach st	2019	Cognitive skills; Computational thinking; Computer progra	-	26_Scherer_et_al_2018-	0
27	127	1	SCOPUS	27	0	The effect of unplugged coding activit	Tonbuloğlu B.; Tonbuloğlu I.	The purpose of the study is to examin	2019	Coding class in primary education; Computational thinking	-	27_infedu-18-2-infedu.20	0
28	128	1	SCOPUS	28	0	Systematic design and rapid developn	Altanis I.; Retalis S.; Petropoulou O.	During the last few years, there has b	2018	Formative evaluation; Game-based learning; Kinect; Secon	-	28_educsci8010018.pdf	0
29	129	1	SCOPUS	29	0	Programming approaches to computa	Kynigos C.; Grizioti M.	During the last decade, coding has co	2018	3D graphics; Computational thinking; Dynamic manipulatio	-	29_infedu-17-2-infedu.20	0
30	202	2	WOS	2	0	Evaluation of Computational Thinking	Paucar-Curasma, R; Villalba-Condori,	The Development of Computational T	2022	Educational Robotics; Programming; Computational Think	MATHEMATIC	02_1390-162-PB.pdf	1
31	207	2	WOS	7	0	Robotics and computational thinking	Ybarra, LAC; Soares, M	This article presents the experience re	2022	blended teaching; computational thinking; creative learnir	-	07_mayarafa,+21524+-+f	2
32	208	2	WOS	8	0	Reflections about a didactic sequence	Stock, BS; Basso, MVD	This article presents a didactic sequer	2022	mathematics education; Scratch; Doodle; computational t	-	08_mayarafa,+21736.pdf	2
33	210	2	WOS	10	0	Educational Robotics Intervention to f	Gerosa, A; Koleszar, V; Tejera, G; Gom	Computational thinking (CT) is a broad	2022	computational thinking; robotics; task engagement; cogni	EXECUTIVE FU	10_fpsyg-13-904761.pdf	0
34	221	2	WOS	21	0	Coding in Primary Grades Boosts Child	Arfe, B; Vardanega, T; Montuori, C; La	Several programs have been develope	2019	coding; computational thinking; programming; executive f	COMPUTATIC	21_fpsyg-10-02713.pdf	0
35	228	2	WOS	28	0	Comparing learners' knowledge, beha	Sun, D; Ouyang, F; Li, Y; Zhu, CF	Background Unplugged programming	2021	STEM education; Unplugged programming; Process-orient	COMPUTATIC	28_s40594-021-00311-1.	0
36	229	2	WOS	29	0	Discovering Concepts of Geometry th	Kim, YR; Park, MS; Tjoe, H	In recent years, mathematics classroc	2021	Educational robotics; Programming; STEM integration; Ma	EDUCATIONA	29_1205-3778-1-PB.pdf	0
37	230	2	WOS	30	0	Teacher-student interaction supportin	Olsson, J; Granberg, C	Studies have shown that learning mat	2022	Programming; Scratch; mathematics education; Problem-s	COMPUTATIC	30_Teacher student inter	0
38	232	2	WOS	32	0	Developing an Interactive Environmer	Munoz, L; Villarreal, V; Morales, I; Gor	The article is the product of the study	2020	educational robotics; mathematics; primary education; tea	EDUCATIONA	32_sensors-20-01935-v2.	0
39	234	2	WOS	34	0	Conceptual development in early-yea	Kallia, M; Cutts, Q	Background and Context: Since the su	2022	Grounded cognition; computing education; unplugged con	CONCRETE; M	34_Conceptual developm	0
40	236	2	WOS	36	0	Making programming part of teachers	Humble, N; Mozelius, P	Purpose The conducted examination o	2023	Programming; Lesson planning; Affordances; K-12 educati	QUALITATIVE	36_10-1108_IJILT-03-202	0
41	237	2	WOS	37	0	Remaking and reinforcing mathemati	Humble, N; Mozelius, P; Sallvin, L	Purpose The purpose of this study is t	2020	Teacher professional development; Programming; Textual	COMPUTATIC	37_10-1108_IJILT-02-202	0
42	302	3	ERIC	2	0	Exploring Students' Computational Th	Hansen, Nils Kristian; Hadjerrouit, Sai	The purpose of this paper is to investi	2021	Computer Science Education, Computer Software, Mather	-	02_ED621547.pdf	0
43	303	3	ERIC	3	0	Using Grey-Based Mathematical Equa	How, Meng-Leong; Looi, Chee-Kit	Computational Thinking (CT) is pervas	2018	Mathematics Instruction, Equations (Mathematics), Scaffo	-	03_EJ1207403.pdf	0
44	304	3	ERIC	4	0	A Systematic Review on Algebraic Thi	Sibgatullin, Iskander R.; Korzhuev, And	Algebraic thinking is a method of solvi	2022	Algebra, Thinking Skills, Mathematics Skills, Problem Solvir	-	04_EJ1329599.pdf	0
45	305	3	ERIC	5	0	Relationships between Computationa	Özgür, Hasan	The aim of this study is to determine t	2020	Thinking Skills, Information Technology, Measures (Individ	-	05_EJ1250676.pdf	0
46	306	3	ERIC	6	0	Fear Not Early Childhood Teachers! Yo	Beisly, Amber; Davis, Jill; Lake, Vickie	Teachers' negative experiences can be	2020	Mathematics Instruction, Teacher Attitudes, Self Efficacy,	-	06_EJ1293146.pdf	0
47	307	3	ERIC	7	0	Computational Thinking in K-12: An Al	Reichert, Janice Teresinha; Barone, Da	The article highlights and discusses as	2020	Foreign Countries, Computation, Thinking Skills, Mathema	-	07_EJ1272449.pdf	0
48	308	3	ERIC	8	0	Can Music Support Calculation Skills?	Korkmaz, Nurdan; Temur, Özlem Doğa	The purpose of this study is to electro	2022	Music, Mathematics Instruction, Elementary School Stude	-	08_EJ1338809.pdf	0
49	309	3	ERIC	9	0	Mathematics and Coding: How Did Co	Calder, Nigel	This paper reports on teachers' perce	2022	Elementary School Students, Mathematics Instruction, Co	-	09_ED623680.pdf	0
50	310	3	ERIC	10	0	The Impact of Mental Computation or	Pourdavood, Roland; McCarthy, Kathy	Moving from arithmetic to algebraic t	2020	Mathematics Instruction, Cognitive Processes, Computatio	-	10_EJ1256896.pdf	0
51	311	3	ERIC	11	0	Challenges and Strategies on the Cont	Metlí, Akin; Akis, Dinçer	Limited studies investigate the high sc	2022	Barriers, Educational Strategies, Advanced Placement Pro	-	11_EJ1364872.pdf	0
52	312	3	ERIC	12	0	The Use of Problem-Solving Heuristics	Singh, Parmjit; Teoh, Sian Hoon; Cheo	One of the major aims of STEM educa	2018	Problem Solving, Heuristics, STEM Education, Mathematic	-	12_EJ1227365.pdf	0
53	313	3	ERIC	13	0	The Preschool Teachers' Opinion on T	Kesicioglu, Oguz Serdar; Mart, Mehme	Teaching geometry in the early years	2022	Preschool Teachers, Teacher Attitudes, Opinions, Mathem	-	13_EJ1354099.pdf	0
54	314	3	ERIC	14	0	Launching Kindergarten Math Clubs: T	Jacob, Robin; Erickison, Anna; Matter	Early math has been shown to predict	2018	Urban Schools, Clubs, Kindergarten, Mathematics Instruct	-	14_ED581568.pdf	0
55	315	3	ERIC	15	0	Content Analysis of Primary School M	Singh, Parmjit; Yusoff, NurulHudha M	Malaysia has undergone several chan	2020	Foreign Countries, Educational Policy, Textbooks, Textboo	-	15_EJ1267319.pdf	0
56	316	3	ERIC	16	0	Assessment of 'Scratch' Programming	Quevedo Gutiérrez, Eduardo; Zapater	The objective of this research is to stu	2021	Mathematics Instruction, Teaching Methods, Programmin	-	16_EJ1314219.pdf	0
57	401	4	SCIELO	1	0	Conectando la educación matemática	Alsina, Ángel, Acosta, Yeni	-	2022	-	-	01_2215-4132-rie-24-37-	1
58	402	4	SCIELO	2	0	Impacto del aula invertida con tecnolo	Martínez Villalobos, Gustavo, Ruiz Roc	-	2022	-	-	02_1405-6666-rmie-27-9	1
59	403	4	SCIELO	3	0	Desarrollo del pensamiento computac	Cabra Páez, Mercy Liceth, Ramírez Ga	-	2022	-	-	03_44970-Texto del artic	1
60	404	4	SCIELO	4	0	Contexto Formativo de Invenção Robó	Azevedo, Greiton Toledo de, Maltemp	-	2022	-	-	04_document.pdf	2
61	405	4	SCIELO	5	0	Tendencias actuales del desarrollo de	Pérez Tamayo, Leandro Daniel, Burgu	-	2021	-	-	05_2227-1899-rcci-15-04	1
62	406	4	SCIELO	6	0	Processo de Aprendizagem de Matem	Azevedo, Greiton Toledo de, Maltemp	-	2020	-	-	06_document.pdf	2
63	601	6	FUNES	1	0	Computational thinking situations in r	Oliveira, Cleia Dalcul da Silva; Fernand	This study aims to analyze how textbo	2022	Matemáticas escolares > Geometría > Otras nociones de E	-	01_OliveiraCleiaComputa	0