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## Teacher Change Following a Professional Development Experience in Integrating Computational Thinking into Elementary Science

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#	Paper	IF	Citations
46	Computational Thinking from a Disciplinary Perspective: Integrating Computational Thinking in K-12 Science, Technology, Engineering, and Mathematics Education. <i>Journal of Science Education and Technology</i> , <b>2020</b> , 29, 1-8	2.8	27
45	The impact of using program visualization techniques on learning basic programming concepts at the K12 level. <i>Computer Applications in Engineering Education</i> , <b>2021</b> , 29, 145-159	1.6	4
44	A computer science and robotics integration model for primary school: evaluation of a large-scale in-service K-4 teacher-training program. <i>Education and Information Technologies</i> , <b>2020</b> , 26, 1-31	3.6	11
43	Development and Evaluation of Fishbone-Based Advanced Computational Thinking (FACT) Pedagogy: A Teacher-Student Collaborative Learning Environment in Engineering and Science Education. <i>Higher Education for the Future</i> , <b>2021</b> , 8, 108-122	0.7	
42	Assessment Methods and Interventions to Develop Computational Thinking A Literature Review. <b>2021</b> ,		1
41	I Felt Like We Were Actually Going Somewhere. <b>2021</b> ,		1
40	The Virtual Pivot. <b>2021</b> ,		2
39	Frame Shifting as a Challenge to Integrating Computational Thinking in Secondary Mathematics Education. <b>2021</b> ,		0
38	Analysis of Computational Thinking in Children's Literature for K-6 Students: Literature as a Non-Programming Unplugged Resource. <i>Journal of Educational Computing Research</i> , 073563312110040	3.8	1
37	Diverse Approaches to School-wide Computational Thinking Integration at the Elementary Grades: A Cross-case Analysis. <b>2021</b> ,		2
36	Constructionist co-design: A dual approach to curriculum and professional development. <i>British Journal of Educational Technology</i> , <b>2021</b> , 52, 1043	4.3	0
35	Developing preservice teachers' understanding of computational thinking: A constructionist approach. <i>British Journal of Educational Technology</i> , <b>2021</b> , 52, 1060-1077	4.3	2
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33	Measuring the effect of continuous professional development on elementary teachers' self-efficacy to teach coding and computational thinking. <i>Computers and Education</i> , <b>2021</b> , 168, 104196	9.5	12
32	Measuring primary school teachers' attitudes towards stimulating higher-order thinking (SHOT) in students: Development and validation of the SHOT questionnaire. <i>Thinking Skills and Creativity</i> , <b>2021</b> , 100954	3	1
31	Professional Growth of Novice and Experienced STEM Teachers. <i>Journal of Science Education and Technology</i> , 1	2.8	2
30	PD with Distance-Based Instructional Coaching to Improve Elementary Teacher's Self-Efficacy in Teaching Science. <i>Journal of Science Teacher Education</i> , 1-22	1.1	

29	Is Mathematics Required for Cooking? An Interdisciplinary Approach to Integrating Computational Thinking in a Culinary and Restaurant Management Course. <i>Mathematics</i> , <b>2021</b> , 9, 2219	2.3	0
28	Science teachers can teach computational thinking through distributed expertise. <i>Computers and Education</i> , <b>2021</b> , 173, 104284	9.5	0
27	Development and testing of the Draw-a-Programmer test (DAPT) to explore elementary preservice teachers' conceptions of computational thinking. <i>Education and Information Technologies</i> , 1	3.6	0
26	Computer science teacher professional development and professional learning communities: a review of the research literature. <i>Computer Science Education</i> , 1-32	1.8	5
25	Primary school teachers' attitudes toward technology use and stimulating higher-order thinking in students: a review of the literature. <i>Journal of Research on Technology in Education</i> , 1-23	2.7	1
24	Elementary teachers' verbal supports of science and engineering practices in an NGSS-aligned science, engineering, and computational thinking unit. <i>Journal of Research in Science Teaching</i> ,	3.4	1
23	Preparing Pre-Service Teachers for Computational Thinking Skills and its Teaching: A Convergent Mixed-Method Study. <i>Technology, Knowledge and Learning</i> , 1	2.9	0
22	Assessment of mathematical creative thinking: A systematic review. <i>Thinking Skills and Creativity</i> , <b>2022</b> , 44, 101019	3	0
21	A Research-Practice Partnership Approach for Co-Designing a Culturally Responsive Computer Science Curriculum for Upper Elementary Students. <i>TechTrends</i> ,	2	
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14	A mixed-method cluster analysis of physical computing and robotics integration in middle-grade math lesson plans. <b>2022</b> , 190, 104623		
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- 7 The TACS Model: Understanding Primary School Teachers' Adoption of Computer Science Pedagogical Content. ○
- 6 Scaling up a teacher development programme for sustainable computational thinking education: TPACK surveys, concept tests and primary school visits. **2023**, 194, 104707 ○
- 5 Computational thinking in a bilingual kindergarten classroom: Emergent ideas for teaching across content areas. ○
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- 3 The role of computer supported project-based learning in students' computational thinking and engagement in robotics courses. **2023**, 48, 101269 ○
- 2 Supporting Elementary Teachers' Technological, Pedagogical, and Content Knowledge in Computational Thinking Integration. ○
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