

Survey of Readiness to Integrate Computational Thinking and Computer Science:

Short Answer Questions:

1. How would you explain the concept of “computational thinking?”
2. How would you integrate computational thinking into a content area that you teach?
3. How would you explain the concept of computer science?

Prior knowledge scale:

4. I incorporate computational thinking into my lessons.
5. I use coding programs (e.g., Scratch, Kodu, others) with my students.
6. I use unplugged (away from a computer) activities to teach computational thinking.
7. I use collaborative/group activities to teach computational thinking.

Comfort scale:

8. I can teach computational thinking effectively.
9. I can teach students to use coding programs to learn about subjects such as math, science, literacy, and social studies.
10. I have the resources I need to teach computational thinking.
11. I have the resources I need to teach coding.
12. I have support from my school administrators to teach computational thinking in my classroom.
13. I have support from my school administrators to integrate coding into my math, science, literacy, and social studies lessons.

Beliefs scale:

14. I believe computational thinking should be part of my teaching.
15. I believe teaching coding with programs such as Scratch should be part of my instruction.
16. I believe computational thinking should be integrated in subjects such as math, science, literacy, and social studies rather than be a stand-alone subject.
17. I believe coding should be integrated in subjects such as math, science, literacy, and social studies rather than be a stand-alone subject.
18. I believe I could learn how to use coding programs (e.g., Scratch, Kodu, others).
19. I believe understanding how to teach computational thinking is useful for me to know.

CT Dispositions scale:

20. I enjoy working on difficult problems.
21. I do not give up easily when I cannot find a solution to a problem.
22. To solve a complex problem, I usually break it down into smaller steps.
23. I try new methods to solve a problem when one does not work.
24. I like listening to others when trying to decide which problem-solving approach to use.
25. I like to work with others to solve problems.

26. The challenge of solving problems using computer science appeals to me.

Ability to differentiate instruction scale:

- 27. I feel prepared to teach computational thinking to students with disabilities.
- 28. I feel prepared to teach coding skills to students with disabilities.
- 29. I am not worried that there will be additional classroom management concerns during my computational thinking lessons.
- 30. I am willing to do extra work to ensure that students with disabilities are included in my computational thinking lessons.
- 31. I am willing to do extra work to ensure that students with disabilities are included in lessons that integrate coding activities.
- 32. I know how to differentiate my computational thinking lessons to make sure all students can learn.
- 33. I know how to differentiate lessons that involve coding to make sure all students can learn.
- 34. All students struggle with computational thinking, not just those with disabilities.
- 35. All students struggle with coding, not just those with disabilities.

Value for students with disabilities scale:

- 36. Students with disabilities should participate in computational thinking lessons.
- 37. Students with disabilities should participate in lessons that integrate coding.
- 38. Students with disabilities can learn computational thinking.
- 39. Students with disabilities can learn to code.
- 40. Students with disabilities can benefit from computational thinking.
- 41. Students with disabilities can benefit from learning to code.

Post- professional development questions:

- 42. I have participated in professional development on computational thinking.
- 43. I have participated in professional development on coding.
- 44. I will work hard on professional development activities even if I don't like what we are currently doing.
- 45. Even if I get frustrated during professional development, I will not quit before I finish what I planned to do.

Demographics:

- 46. What is your gender? - Selected Choice
- 47. What is your gender? - other - Text
- 48. What is your age?
- 49. How many years have you been a teacher and/or specialist working in a school?
- 50. What grade or special topic do you teach? (check all that apply) - Selected Choice
Kindergarten

51. What grade or special topic do you teach? (check all that apply) - Selected Choice 1st grade
52. What grade or special topic do you teach? (check all that apply) - Selected Choice 2nd grade
53. What grade or special topic do you teach? (check all that apply) - Selected Choice 3rd grade
54. What grade or special topic do you teach? (check all that apply) - Selected Choice 4th grade
55. What grade or special topic do you teach? (check all that apply) - Selected Choice 5th grade
56. What grade or special topic do you teach? (check all that apply) - Selected Choice 6th grade
57. What grade or special topic do you teach? (check all that apply) - Selected Choice 7th grade
58. What grade or special topic do you teach? (check all that apply) - Selected Choice 8th grade
59. What grade or special topic do you teach? (check all that apply) - Selected Choice 9th grade
60. What grade or special topic do you teach? (check all that apply) - Selected Choice 10th grade
61. What grade or special topic do you teach? (check all that apply) - Selected Choice 11th grade
62. What grade or special topic do you teach? (check all that apply) - Selected Choice 12th grade
63. What grade or special topic do you teach? (check all that apply) - Selected Choice special education
64. What grade or special topic do you teach? (check all that apply) - Selected Choice library/media specialist
65. What grade or special topic do you teach? (check all that apply) - Selected Choice technology and computer skills
66. What grade or special topic do you teach? (check all that apply) - Selected Choice art
67. What grade or special topic do you teach? (check all that apply) - Selected Choice music
68. What grade or special topic do you teach? (check all that apply) - Selected Choice combined or multi-age classroom
69. What grade or special topic do you teach? (check all that apply) - Selected Choice other
70. What grade or special topic do you teach? (check all that apply) - other - Text
71. Do you have students with high-incidence disabilities in your classroom?
72. Do you have experience teaching students with high-incidence disabilities?
73. What is the name of the school where you work?