



Grades 3-5 Computer Science

This document provides correlations between the 2023 Indiana Academic Standards and the 2022 Indiana Academic Standards for easy reference.

The 2023 Indiana Academic Standards resulted from the standards streamlining process required by Indiana Code 20-31-3-1(c-d) and were adopted by the Indiana State Board of Education in June 2023. Standards designated as essential (E) are shaded in gray and all standards were renumbered to avoid gaps in sequencing.

2023 Indiana Academic Standard		2022 Indiana Academic Standard	
Core Concept: Data & Information		Core Concept: Data & Information	
Number	Text	Number	Text
3-5.DI.1	Decompose problems and subproblems into parts as a means to solving complex problems. (E)	3-5.DI.1	Decompose problems and subproblems into parts as a means to solving complex problems.
3-5.DI.2	Organize and present collected data visually to highlight relationships and support a claim.	3-5.DI.2	Organize and present collected data visually to highlight relationships and support a claim.
3-5.DI.3	Demonstrate how variables can represent data and are used to store and modify information.	3-5.DI.3	Demonstrate how variables can represent data and are used to store and modify information.
3-5.DI.4	Describe that data can be represented in different forms understandable by people, including words, symbols, and digital displays of color.	3-5.DI.4	Describe that data can be represented in different forms understandable by people, including words, symbols, and digital displays of color.
3-5.DI.5	Use data to highlight or propose cause-and-effect relationships, predict outcomes, or communicate an idea. (E)	3-5.DI.5	Use data to highlight or propose cause-and-effect relationships, predict outcomes, or communicate an idea.

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2023 Indiana Academic Standard		2022 Indiana Academic Standard	
Core Concept: Computing Devices & Systems		Core Concept: Computing Devices & Systems	
Number	Text	Number	Text
3-5.CD.1	Model how computer hardware and software work together to accomplish tasks.	3-5.CD.1	Model how computer hardware and software work together to accomplish tasks.
3-5.CD.2	Determine potential solutions to solve simple hardware and software problems using common troubleshooting strategies. (E)	3-5.CD.2	Determine potential solutions to solve simple hardware and software problems using common troubleshooting strategies.
3-5.CD.3	Describe how internal and external parts of computing devices function to form a system.	3-5.CD.3	Describe how internal and external parts of computing devices function to form a system.
3-5.CD.4	Describe what distinguishes humans from machines, focusing on human intelligence versus machine intelligence.	3-5.CD.4	Describe what distinguishes humans from machines, focusing on human intelligence versus machine intelligence.
2023 Indiana Academic Standard		2022 Indiana Academic Standard	
Core Concept: Programs & Algorithms		Core Concept: Programs & Algorithms	
Number	Text	Number	Text
3-5.PA.1	Collaborate with peers to implement problem-solving steps to create a variety of programming solutions. (E)	3-5.PA.1	Collaborate with peers to implement problem-solving steps to create a variety of programming solutions.
3-5.PA.2	Design programs that incorporate sequences, events, loops, and conditionals. (E)	3-5.PA.3	Design programs that incorporate sequences, events, loops, and conditionals.
3-5.PA.3	Test and debug (i.e., identify and fix errors) a program or algorithm to ensure it runs as intended.	3-5.PA.4	Test and debug (i.e., identify and fix errors) a program or algorithm to ensure it runs as intended.

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3-5.PA.4	Observe intellectual property rights and give appropriate attribution when creating or remixing programs. (E)	3-5.PA.6	Observe intellectual property rights and give appropriate attribution when creating or remixing programs.
3-5.PA.5	Describe choices made during program development using code comments, presentations, and demonstrations. (E)	3-5.PA.7	Describe choices made during program development using code comments, presentations, and demonstrations.
		3-5.PA.2	Using age-appropriate vocabulary, explain steps taken and choices made to improve the design of a sequence.
		3-5.PA.5	Construct and analyze solutions to problems using the basic steps of algorithmic problem solving.
2023 Indiana Academic Standard		2022 Indiana Academic Standard	
Core Concept: Networking & the Internet		Core Concept: Networking & the Internet	
Number	Text	Number	Text
3-5.NI.1	Discuss real-world cybersecurity problems and how personal information can be protected. (E)	3-5.NI.1	Discuss real-world cybersecurity problems and how personal information can be protected.
3-5.NI.2	Model how information is broken down into smaller pieces, transmitted as packets through multiple devices over networks and the internet, and reassembled at the destination.	3-5.NI.2	Model how information is broken down into smaller pieces, transmitted as packets through multiple devices over networks and the internet, and reassembled at the destination.

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2023 Indiana Academic Standard		2022 Indiana Academic Standard	
Core Concept: Impact & Culture		Core Concept: Impact & Culture	
Number	Text	Number	Text
3-5.IC.1	Describe the positive and negative impacts of technology on one’s personal life, society, and our culture. (E)	3-5.IC.2	Describe the positive and negative impacts of technology on one’s personal life, society, and our culture.
3-5.IC.2	Seek diverse perspectives for the purpose of improving computational artifacts.	3-5.IC.3	Seek diverse perspectives for the purpose of improving computational artifacts.
3-5.IC.3	Critique computing technologies that have changed the world. Analyze how those technologies influence and/or are influenced by cultural practices and societal biases.	3-5.IC.5	Critique computing technologies that have changed the world. Analyze how those technologies influence and/or are influenced by cultural practices and societal biases.
		3-5.IC.1	Assess the responsible use of technology as well as the consequences of how inappropriate use can negatively impact society, cyber security, and one's own personal life.
		3-5.IC.4	Identify which information should be kept private and which information can be shared.

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2023 Indiana Academic Standard		2022 Indiana Academic Standard	
Core Concept: Digital Literacy		Core Concept: Digital Literacy	
Number	Text	Number	Text
		3-5.DL.1	Working in a group, select the appropriate tool from a menu of options for general purpose productivity, skill remediation, written communication, and publishing activities.
		3-5.DL.2	Collaborate to iteratively develop computational artifacts (e.g., videos, computer programs).
		3-5.DL.3	Demonstrate proficiency with keyboards and other input and output devices.