

Kindergarten – Second Grade Computer Science Standards

Introduction to Indiana’s Academic Standards for Computer Science

Indiana’s Academic Standards for Computer Science allows for students to be prepared in the ever-changing computer science areas providing inquiry-based, hands-on experiences based on two components: Concepts and Practices. These standards are to be implemented in the 2016-2017 school year. The expectation is for students to work through the standards in multi-subject areas and not to be formally assessed by the State of Indiana. As students move through grade levels, they will work with and experience the standards at those grade bands (K-2, 3-5, and 6-8). The standards are based on the five core concepts: Data and Information (DI); Computing Devices and Systems (CD); Programs and Algorithms (PA); Networking and Communication (NC); and Impact and Culture (IC).

Data and Information (DI)
K-2.DI.1 Use technology resources to solve age-appropriate problems and communicate thoughts, ideas, or stories in a step-by-step manner.
K-2.DI.2 Understand how to arrange (sort) information into useful order, such as sorting students by birth date, without using a computer.
K-2.DI.3 Recognize that software is created to control computer operations.

Computing Devices and Systems (CD)
K-2.CD.1 Use standard input and output devices to operate computers and other technologies.

Programs and Algorithms (PA)
K-2.PA.1 Use technology and developmentally appropriate multimedia resources to conduct age-appropriate research and support learning across the curriculum.
K-2.PA.2 Create developmentally appropriate multimedia products with support from teachers, family members, or student partners.
K-2.PA.3 Arrange information using concept mapping tools and a set of statements that accomplish a simple task.

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Networking and Communication (NC)	
K-2.NC.1	Use technology to work cooperatively and collaboratively with peers, teachers, and others.
K-2.NC.2	Gather information and communicate electronically with others with support from teachers, family members, or student partners.

Impact and Culture (IC)	
K-2.IC.1	Practice responsible digital citizenship (legal and ethical behaviors) in the use of technology.
K-2.IC.2	Identify positive and negative social and ethical behaviors for using technology.