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. 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.

Kindergarten – Second Grade Computer Science Standards

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.