**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)** |
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| **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)** |
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| **K-2.CD.1** Use standard input and output devices to operate computers and other technologies. |

|  | **Programs and Algorithms (PA)** |
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| **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. |

|  | **Networking and Communication (NC)** |
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| **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)** |
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| **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. |