Computer Science Resource Guide
Kindergarten – Second Grade

Data and Information		
Indiana Academic Standard	**Clarifying Statement(s)**	**Vocabulary**
K-2.DI.1 Use technology resources to solve age-appropriate problems and communicate thoughts, ideas, or stories in a step-by-step manner.	(1) The key is to use a step-by-step manner so that they can make the connection in 3-5 to an algorithmic approach.	
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.	(1) Allow students to work with various software.	**software** – a general term for the various kinds of programs used to operate computers and related devices

Computing Devices and Systems		
Indiana Academic Standard	**Clarifying Statement(s)**	**Vocabulary**
K-2.CD.1 Use standard input and output devices to operate computers and other technologies.	(1) There is no requirement for a specific type of technology that students have to use. Districts decide what kind of devices and other technologies students will use. Example: A keyboard is an input device that sends information about the keys you press. This is received by the computer and it displays the correct letter or number. A monitor is an output device. It displays all the information that has been sent to it by input devices.	

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Programs and Algorithms		
Indiana Academic Standard	**Clarifying Statement(s)**	**Vocabulary**
K-2.PA.1 Use technology and developmentally appropriate multimedia resources to conduct age-appropriate research and support learning across the curriculum.		**multimedia** – using more than one medium of expression or communication
K-2.PA.2 Create developmentally appropriate multimedia products with support from teachers, family members, or student partners.		**multimedia** – using more than one medium of expression or communication
K-2.PA.3 Arrange information using concept mapping tools and a set of statements that accomplish a simple task.		**concept maps** – graphical tools for organizing and representing knowledge

Networking and Communication		
Indiana Academic Standard	**Clarifying Statement(s)**	**Vocabulary**
K-2.NC.1 Use technology to work cooperatively and collaboratively with peers, teachers, and others.		**cooperatively** – working or acting together willingly for a common purpose or benefit **collaboratively** – to work, one with another
K-2.NC.2 Gather information and communicate electronically with others with support from teachers, family members, or student partners.		

Impact and Culture		
Indiana Academic Standard	**Clarifying Statement(s)**	**Vocabulary**
K-2.IC.1 Practice responsible digital citizenship (legal and ethical behaviors) in the use of technology.		**digital citizenship** – the norms of appropriate, responsible behavior with regard to the use of technology

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K-2.IC.2 Identify positive and negative social and ethical behaviors for using technology.		**social behavior** – a behavior among two or more people **ethical behavior** – acting in ways consistent with what society and individuals typically think are good values and demonstrating respect for key moral principles that include honesty, fairness, equality, dignity, diversity, and individual rights