Oklahoma Academic Standards for Computer Science {Grades K-2 First Public Draft}							
Concept	Subconcept	Kindergarten	1st Grade	2nd Grade			
Computing Systems	Devices	K.CS.D.01 With guidance, follow directions and start to make appropriate choices to use computing devices to perform a variety of tasks.	1.CS.D.01 With guidance, select and use a computing device to perform a variety of tasks for an intended outcome.	2.CS.D.01 Select and use a computing device to perform a variety of tasks for an intended outcome.			
	Hardware & Software	K.CS.HS.01 Use appropriate terminology to locate and identify common computing devices and components, in a variety of environments (e.g. desktop computer, laptop computer, tablet device, monitor, keyboard, mouse, printer).	1.CS.HS.01 Use appropriate terminology in naming and describing the function of common computing devices and components (e.g. desktop computer, laptop computer, tablet device, monitor, keyboard, mouse, printer).	2.CS.HS.01 Identify the components of a computer system and what the basic functions are (e.g. hard drive and memory) as well as peripherals (printers, scanners, external hard drives) and external storage features and their uses (e.g. cloud storage).			
	Troubleshooting		1.CS.T.01 Identify, using accurate terminology, simple hardware and software problems that may occur during use (e.g., app or program is not working as expected, no sound is coming from the device, caps lock turned on).	2.CS.T.01 Identify using accurate terminology, simple hardware and software problems that may occur during use (e.g., app or program is not working as expected, no sound is coming from the device, caps lock turned on) and discuss problems with peers and adults.			
Networks & The Internet	Network Communication & Organization	K.NI.NCO.01 Recognize that computing devices can be connected together.	1.NI.NCO.01 Recognize that by connecting computing devices together they can share information (remote storage, printing, the internet).	2.NI.NCO.01 Recognize that computing devices can be connected at various scales (bluetooth, wifi, www, LAN, WAN, peer-to-peer).			
	Cybersecurity	K.NI.C.01 Discuss what passwords are and why we do not share them with others. With guidance, use passwords to access technological devices, apps, etc.	1.NI.C.01 Identify what passwords are; explain why they are not shared; and discuss what makes a password strong. Independently, use passwords to access technological devices, apps etc.	2.NI.C.01 Explain what passwords are; why we use them, and use strong passwords to protect devices and information from unauthorized access.			
Data Analysis	Storage	K.DA.S.01 Identify types of information from our everyday lives (calendar information, weather patterns) and computing devices (digital images; videos; apps; documents)	1.DA.S.01 With guidance, locate, open, modify and save an existing file with a computing device.	2.DA.S.01 With guidance, create, copy, locate, modify, and delete a file on a computing device and define the information stored as data.			
	Collection, Visualiation, & Transformation	K.DA.CVT.01 With guidance, collect data and present it visually.	1.DA.CVT.01 With guidance, collect data and present it two different ways.	2.DA.CVT.01With guidance, collect and present the same data in various visual formats.			
	Inference & Models	K.DA.IM.01 With guidance, draw conclusions and make predictions based on picture graphs or patterns (e.g., make predictions based on weather data presented in a picture graph; complete a pattern).	1.DA.IM.01 With guidance, identify and interpret data from a chart or graph (visualization) in order to make a prediction, with or without a computing device.	2.DA.IM.01 With guidance, construct and interpret data and present it in a chart or graph (visualization) in order to make a prediction, with or without a computing device.			

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Concept	Subconcept	Kindergarten	1st Grade	2nd Grade			
20	Algorithms	K.AP.A.01 With guidance, model daily processes and follow algorithms (sets of step-by-step instructions) to complete tasks verbally, kinesthetically, with robot devices, or a programing language.	1.AP.A.01 With guidance, model daily processes and follow algorithms (sets of step-by-step instructions) to complete tasks verbally, kinesthetically, with robot devices, or a programing language.	2.AP.A.01 With guidance, model daily processes by creating and following algorithms (sets of step-by-step instructions) to complete tasks verbally, kinesthetically, with robot devices, or a programing language.			
	Variables	K.AP.V.01 With guidance, model and represent grade level appropriate data (eg. print, numbers, kinesthetic movement, symbols and robot manipulatives).	1.AP.V.01 With guidance, model and represent grade level appropriate data (eg. print, numbers, kiniethetic movement, symbols and robot manipulatives).	2.AP.V.01 Model the way a computer program manipulates grade leve lappropriate data (eg. print, numbers, kinesthetic movement, symbols and robot manipulatives).			
	Control	K.AP.C.01 With guidance, create programs to accomplish tasks as a means of creative expression using a programming language, robot device or unplugged activity, either independently or collaboratively, including sequencing, emphasizing the beginning, middle, and end.	1.AP.C.01 With guidance, create programs to accomplish tasks as a means of creative expression or problem solving using a programming language, robot device or unplugged activity, either independently or collaboratively including sequencing and repetition.	2.AP.C.01 With guidance, create programs using a programming language, robot device or unplugged activity that utilize sequencing and repetition to solve a problem or express ideas both independently and collaboratively.			
mmin	Modularity	Not addressed at this level.	Not addressed at this level.	Not addressed at this level.			
rograi		Not addressed at this level.	Not addressed at this level.	Not addressed at this level.			
Algorithm & Programming	Program Development	K.AP.PD.01 With guidance, create a grade level appropriate document to illustrate thoughts, ideas, and stories in a sequential (step-by-step) manner (e. g., story map, storyboard, and sequential graphic organizer).	1.AP.PD.01 Independently or with guidance, create a grade level appropriate document to illustrate thoughts, ideas, and stories in a sequential (step-by-step) manner (e.g., story map, storyboard, and sequential graphic organizer).	2.AP.PD.01 Independently or with guidance, create a grade level appropriate document to illustrate thoughts, ideas, and stories in a sequential (step-by-step) manner (e.g., story map, storyboard, and sequential graphic organizer).			
		K.AP.PD.02 Independently or with guidance give credit to ideas, creations and solutions of others while developing algorithms.	1.AP.PD.02 Independently or with guidance give credit to ideas, creations and solutions of others while writing and/or developing programs.	2.AP.PD.02 Give credit to ideas, creations and solutions of others while writing and developing programs.			
		K.AP.PD.03 Independently and collaboratively, identify and correct errors in an algorithm that includes sequencing and repeated procedures using a programming language or unplugged activities.	1.AP.PD.03 Independently and collaboratively, debug programs, which include sequencing and repetition to accomplish tasks as a means of creative expression or problem solving using a programming language and/or unplugged activities.	2.AP.PD.03 Independently and collaboratively, create and debug programs, which include sequencing and repetition to accomplish tasks as a means of creative expression or problem solving using a programming language and/or unplugged activities.			
		K.AP.PD.04 Use correct terminology ( first, second ) in the development of an algorithm to solve a simple problem	1.AP.PD.04 Use correct terminology (beginning, middle, end), and explain the choices made in the development of an algorithm and/or program to solve a simple problem.	2.AP.PD.04 Use correct terminology (debug, program input/output, code) to explain the development of an algorithm to solve a problem in an unplugged activity, hands on manipulatives or a programming language.			

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Concept	Subconcept	Kindergarten	1st Grade	2nd Grade				
Impacts of Computing	Culture	K.IC.C.01 List different ways in which computing devices are used in your daily life.	1.IC.C.01 Identify how people use many types of technologies in their daily work and personal lives.	2.IC.C.01 Identify and describe how people use many types of technologies in their daily work and personal lives.				
		Not addressed at this level.	Not addressed at this level.	Not addressed at this level.				
	Social Interactions	K.IC.SI.01 With guidance, identify appropriate manners while participating in an online environment.	1.IC.SI.01With guidance, identify appropriate and inappropriate behavior. Act responsibly while participating in an online community and know how to report concerns.	2.IC.SI.01 Develop a code of conduct, explain, and practice grade-level appropriate behavior and responsibilities while participating in an online community. Identify and report inappropriate behavior.				
		Not addressed at this level.	Not addressed at this level.	Not addressed at this level.				
	Safety, Law, & Ethics	Not addressed at this level.	Not addressed at this level.	Not addressed at this level.				