Illinois Computer Science

Grades K-2

Computing Systems K-2.CS	**1** **Devices: Select and operate appropriate software to perform a variety of tasks and recognie that users have different needs and preferences for the technology they use** K-2.CS.01
	2 **Hardware and Software: Use appropriate terminology in identifying and describing the function of common physical components of computing systems (hardware)** K-2.CS.02
	3 **Troubleshooting: Describe basic hardware and software problems using accurate terminology** K-2.CS.03
Networks and the Internet K-2.NI	**4** **Cybersecurity: Explain what passwords are and why we use them and use strong passwords to protect devices and information from unauthorized use.** K-2.NI.04
Data and Analysis K-2.DA	**5** **Storage: Store, copy, search, retrieve, modify and delete information using a computing device and define the information stored as data** K-2.DA.05
	6 **Collection, Visualization and Transformation: Collect and present the same data in various visual formats** K-2.DA.06
	7 **Inference and Models: Identify and describe patterns in data visualizations, such as charts or graphs, to make predictions** K-2.DA.07
Algorithms and programming K-2.AP	**8** **Algorithms: Model daily processes by creating and following algorithms (sets of step by step instructions) to complete tasks.** K-2.AP.08
	9 **Variables: Model the way programs store and manipulate data by using numbers or other symbols to represent information** K-2-AP.09
	10 **Control: Develop programs and sequences and simple loops, to express ideas or address a problem** K-2.AP.10
	11 **Modularity: Decompose (break down) the steps needed to solve a problem into a precise sequence of instructions** K-2.AP.11
	Program Development:
	12 Develop plans that describe a program's sequence of events, goals, and expected outcomes. K-2.AP.12

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13 Give attribution when using the ideas and creations of others while developing programs K-2.AP.13

14 Debug (identify and fix) errors in an algorithm or program that includes sequences and simple loops K-2.AP.14

15 Using correct terminology, describe steps taken and choices made during the iterative process of program development K-2.AP.15

Impacts of Computing K-2.IC

16 Culture: Compare how people live and work before and after the implementation or adoption of new computing technology K-2.IC.16

17 Social Interactions: Work respectfully and responsibly with others online. K-2.IC.17

18 Safety Law and Ethics: Keep login information private and log off of devices appropriately. K-2.IC.18

Emerging and Future Technologies K-2.ET

A Explain that the fields of emerging technologies will be evolving and rapidly growing K-2.ET.A

B Comparing existing and emerging technologies, ideas, and concepts K-2.ET.B

C Describe how emerging technologies are influencing current events a a local and global scale K-2.ET.C

D Predict the positive and negative societal, cultural, and economic impacts that emerging and future technologies may generate K-2.ET.D

E Create new or original work by applying emerging technolgies K-2.ET.E