Montana Computer Science

Grade 2

When a district incorporates or integrates computer science content into district curriculum or offers a course in computer science, the following skills at each grade level apply

1. fostering an inclusive computing culture CS.1.K12
2. collaborating around computing CS.2.K12
3. recognizing and defining computational problems CS.3.K12
4. developing and using abstractions CS.4.K12
5. creating computational artifacts CS.5.K12
6. testing and refining computational artifacts CS.6.K12
7. communicating about computing. CS.7.K12

The computer science algorithms and programming standards for second grade are that each student will CS.AP.2

1. model daily processes by creating and following sets of step-by-step instructions to complete tasks CS.AP.2.1
2. model the way programs store and manipulate data by using numbers or other symbols to represent information CS.AP.2.2
3. develop programs with sequences and simple loops to express ideas or address a problem CS.AP.2.3
4. break down the steps needed to solve a problem into a precise sequence of instructions. CS.AP.2.4

Computer science computing systems standards for second grade are that each student will CS.CS.2

1. select and operate appropriate tools to perform a variety of tasks CS.CS.2.1
2. use appropriate terminology in identifying and describing the function of common hardware and software CS.CS.2.2
3. describe basic hardware and software problems using accurate terminology. CS.CS.2.3

Computer science data and analysis standards for second grade are that each student wi

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1. collect and present the data in various visual formats CS.DA.2.1
2. define data as gathered and stored information CS.DA.2.2
3. dentify and describe patterns in data visualizations, such as charts or graphs, to nake predictions CS.DA.2.3

Computer science impacts of computing standards for second grade are that each student will CS.IC.2	1 **identify how computing technology has changed how people live and work** CS.IC.2.1
	2 **work respectfully and responsibly online** CS.IC.2.2
	3 **keep login information private and log off devices appropriately.** CS.IC.2.3
Computer science networks and the internet standards for second grade are that each student will CS.NI.2	1 **explain what passwords are and why they are used** CS.NI.2.1
	2 **recognize that computing devices and the internet enable people to connect with other people, places, information, and ideas** CS.NI.2.2