Montana Computer Science

Grade 5

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

Computer science algorithms and programming standards for fifth grade are that each student will CS.AP.5

1. **compare and refine multiple algorithms for the same task and determine which is the most appropriate** CS.AP.5.1
2. **create programs that use variables to store and modify data** CS.AP.5.2
3. **create programs that include sequences, events, loops, and conditionals** CS.AP.5.3
4. **modify, remix, or incorporate portions of an existing program to develop something new or add more advanced features** CS.AP.5.4
5. **describe choices made during program development** CS.AP.5.5

Computer science computing systems standards for fifth grade are that each student will CS.CS.5

1. **describe how internal and external parts of computing devices function to form a system** CS.CS.5.1
2. **model how computer hardware and software work together as a system to accomplish tasks** CS.CS.5.2
3. **determine potential solutions to solve simple hardware and software problems using common troubleshooting strategies.** CS.CS.5.3

Computer science data and analysis standards for ea wil CS.DA.5

1. **organize and present collected data visually to highlight relationships and support a claim** CS.DA.5.1

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	2 demonstrate how to store, copy, search, retrieve, modify, and delete information using a computing device CS.DA.5.2
	3 use accurate and relevant data to highlight or propose cause-and-effect relationships, predict outcomes, or communicate an idea CS.DA.5.3
Computer science impacts of computing standards for fifth grade are that each student will CS.IC.5	1 explain how computing technologies have changed Montana and the world, and express how those technologies influence, and are influenced by, cultural practices CS.IC.5.1
	2 identify ways to improve the accessibility and usability of technology products for the diverse needs and wants of users CS.IC.5.2
	3 utilize diverse perspectives for the purpose of improving computational artifacts CS.IC.5.3
	4 apply laws associated with digital information and intellectual property CS.IC.5.4
	5 describe ethical issues that relate to computing devices and networks CS.IC.5.5
Computer science networks and the internet standards for fifth grade are that each student will CS.NI.5	1 explain cybersecurity problems CS.NI.5.1
	2 explain how personal information can be protected CS.NI.5.2