Montana Computer Science

Grade 4

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 fourth grade are that each student will CS.AP.4	**1** compare and refine multiple algorithms for the same task and determine which is the most appropriate CS.AP.4.1 **2** break down problems into smaller, manageable subproblems to facilitate the program development process CS.AP.4.2 **3** test and debug a program or algorithm to ensure it runs as intended. CS.AP.4.3
Computer science computing systems standards for fourth grade are that each student will CS.CS.4	**1** explain the function of individual internal and external parts CS.CS.4.1 **2** determine potential solutions to solve simple hardware and software problems using common troubleshooting strategies. CS.CS.4.2
Computer science data and analysis standards for fourth grade are that each student will CS.DA.4	**1** select and use appropriate non-digital and digital tools to collect and represent data CS.DA.4.1 **2** identify and use multiple types of data to complete a task CS.DA.4.2 **3** evaluate the validity of data based on accuracy and relevance CS.DA.4.3
Computer science impacts of computing standards for fourth gra stu	**1** collect diverse perspectives for the purpose of improving computational artifacts CS.IC.4.1 **dentify rules associated with the appropriate use of digital information when reating computational artifacts** CS.IC.4.2

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3 describe ethical issues that relate to computing devices and networks. CS.IC.4.3

Computer science networks and the internet standards for fourth grade are that each student will identify cybersecurity problems CS.NI.4

4. **Computer science networks and the internet standards for fourth grade are that each student will identify cybersecurity problems** CS.NI.4