Rhode Island Computer Science

Grades K–2

Computational Thinking & Programming

Algorithms

1 Model daily processes by creating and following algorithms to complete tasks. 1A-CT-A-1

Variables

1 Model real-world data and how it is stored. 1A-CT-V-1

Data Structures and Data Types

1 Model real-world objects and/or processes that can be represented by various types of data. 1A-CT-D-1

Control Structures

1 Develop simple programs with sequences and simple repetitions 1A-CT-C-1

Modularity

1 Decompose a task into a set of smaller tasks. 1A-CT-M-1

Computational Design

1 Develop a plan that describes what a computational artifact should look like and how it should perform. 1A-CT-CD-1

2 Identify a task that includes sequences and simple loops 1A-CT-CD-2

Computing Systems & Networks

Human-Computer Interfaces

1 Identify the inputs and outputs of a computer system. 1A-CSN-H-1

Hardware and Software

1 Use appropriate terminology in identifying and describing the function of common physical components of computing systems (hardware). 1A-CSN-HS-1

Troubleshooting

1 Describe basic hardware and software problems using appropriate terminology. 1A-CSN-T-1

Networks and the Internet

Describe the Internet as a place to share and find information. 1A-CSN-N-1

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Cybersecurity

Risks

1 Keep login and personal information private, and log off of devices appropriately. 1A-CY-R-1

Safeguards

1 Recognize basic digital security features. 1A-CY-S-1

Response

1 Identify situations with applications and devices that should be reported to a responsible adult. 1A-CY-RP-1

Data & Analysis

Collection, Visualization, Transformation

1 Collect and present the same data in multiple formats. 1A-DA-CVT-1

Inferences and Models

1 Identify and describe patterns in data presentations, such as charts or graphs, to make predictions. 1A-DA-IM-1

Storage

1 Identify data as information that is stored by software. 1A-DA-ST-1

Digital Literacy

Creation and Use

1 Use software tools to create simple digital artifacts 1A-DL-CU-1

Searching Digital Information

1 Conduct basic digital searches. 1A-DL-SDI-1

Understanding Software Tools

1 Describe basic differences between humans and computers for performing computational tasks. 1A-DL-US-1

Responsible Computing & Society

Culture

1 Compare and contrast how individuals live and work before and after the implementation or adoption of new computing technology. 1A-RC-CU-1

Safety, Law & Ethics

1 Discuss ownership and attribution of digital artifacts. 1A-RC-SLE-1

Social Interactions

1 Work respectfully and responsibly with others online. 1A-RC-SI-1