Forward Education

Wildfire detection with Autonomous Vehicles

CSTA K-12 Computer Science Standards
Technology Education
Grade **7** - Adopted: **2017**

LEVEL	CSTA.2.	Level 2 (Ages 11-14)
STRAND / COURSE	2-DA.	Data & Analysis
LEARNING OUTCOME / STRAND		Inference & Models

LEARNING OUTCOME	2-DA-09.	Refine computational models based on the data they have generated. (P5.3, P4.4)

LEVEL	CSTA.2.	Level 2 (Ages 11-14)
STRAND / COURSE	2-AP.	Algorithms & Programming
LEARNING OUTCOME / STRAND		Variables

LEARNING OUTCOME	2-AP-11.	Create clearly named variables that represent different data types and perform operations on their values. (P5.1, P5.2)

LEVEL	CSTA.2.	Level 2 (Ages 11-14)
STRAND / COURSE	2-AP.	Algorithms & Programming
LEARNING OUTCOME / STRAND		Control

LEARNING OUTCOME	2-AP-12.	Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals. (P5.1, P5.2)

LEVEL	CSTA.2.	Level 2 (Ages 11-14)
STRAND / COURSE	2-AP.	Algorithms & Programming
LEARNING OUTCOME / STRAND		Modularity

LEARNING OUTCOME	2-AP-13.	Decompose problems and subproblems into parts to facilitate the design, implementation, and review of programs. (P3.2)

LEVEL	CSTA.2.	Level 2 (Ages 11-14)
STRAND / COURSE	2-AP.	Algorithms & Programming

LEARNING OUTCOME / STRAND		Program Development

LEARNING OUTCOME	2-AP-18.	Distribute tasks and maintain a project timeline when collaboratively developing computational artifacts. (P2.2)

LEVEL	CSTA.2.	Level 2 (Ages 11-14)
STRAND / COURSE	2-IC.	Impacts of Computing
LEARNING OUTCOME / STRAND		Social Interactions

LEARNING OUTCOME	2-IC-22.	Collaborate with many contributors through strategies such as crowdsourcing or surveys when creating a computational artifact. (P2.4, P5.2)

LEVEL	CSTA.2.	Level 2 (Ages 11-14)
STRAND / COURSE	2-IC.	Impacts of Computing
LEARNING OUTCOME / STRAND		Safety, Law, & Ethics

LEARNING OUTCOME	2-IC-23.	Describe tradeoffs between allowing information to be public and keeping information private and secure. (P7.2)

CSTA K-12 Computer Science Standards
Technology Education
Grade **8** - Adopted: **2017**

LEVEL	CSTA.2.	Level 2 (Ages 11-14)
STRAND / COURSE	2-DA.	Data & Analysis
LEARNING OUTCOME / STRAND		Inference & Models

LEARNING OUTCOME	2-DA-09.	Refine computational models based on the data they have generated. (P5.3, P4.4)

LEVEL	CSTA.2.	Level 2 (Ages 11-14)
STRAND / COURSE	2-AP.	Algorithms & Programming
LEARNING OUTCOME / STRAND		Variables

LEARNING OUTCOME	2-AP-11.	Create clearly named variables that represent different data types and perform operations on their values. (P5.1, P5.2)

LEVEL	CSTA.2.	Level 2 (Ages 11-14)
STRAND / COURSE	2-AP.	Algorithms & Programming

LEARNING OUTCOME / STRAND		Control

LEARNING OUTCOME	2-AP-12.	Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals. (P5.1, P5.2)

LEVEL	CST A.2.	Level 2 (Ages 11-14)
STRAND / COURSE	2-AP.	Algorithms & Programming
LEARNING OUTCOME / STRAND		Modularity

LEARNING OUTCOME	2-AP-13.	Decompose problems and subproblems into parts to facilitate the design, implementation, and review of programs. (P3.2)

LEVEL	CST A.2.	Level 2 (Ages 11-14)
STRAND / COURSE	2-AP.	Algorithms & Programming
LEARNING OUTCOME / STRAND		Program Development

LEARNING OUTCOME	2-AP-18.	Distribute tasks and maintain a project timeline when collaboratively developing computational artifacts. (P2.2)

LEVEL	CST A.2.	Level 2 (Ages 11-14)
STRAND / COURSE	2-IC.	Impacts of Computing
LEARNING OUTCOME / STRAND		Social Interactions

LEARNING OUTCOME	2-IC-22.	Collaborate with many contributors through strategies such as crowdsourcing or surveys when creating a computational artifact. (P2.4, P5.2)

LEVEL	CST A.2.	Level 2 (Ages 11-14)
STRAND / COURSE	2-IC.	Impacts of Computing
LEARNING OUTCOME / STRAND		Safety, Law, & Ethics

LEARNING OUTCOME	2-IC-23.	Describe tradeoffs between allowing information to be public and keeping information private and secure. (P7.2)