



ALVIK

CURRICULUM GRID

LESSONS	LEARNING GOALS	ELEMENTARY NGSS	ELEMENTARY CSTA	CODING AND ROBOTICS CSTA 11-14	CODING AND ROBOTICS CSTA 14+	
ALL	Use correct terminology , describe steps taken and choices made during the iterative process of program development.		1A-AP-15 1A-CS-03 1B-CS-01		3B-AP-23	
THERE AND BACK AGAIN OBBY COURSE PERIMITER SCOUT NEED...MORE...POWER	Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.	3-PS2-2	1A-DA-07			
ROBOT DOZER	Use flowcharts and/or pseudocode to address complex problems as algorithms .		1A-AP-08 1A-AP-09 1B-AP-13	2-AP-10 2-AP-16	3B-AP-09 3B-AP-10 3B-AP-13	
ALL	Design projects that combine hardware and software components to collect and exchange data.		1B-CS-01 1B-CS-02 1A-CS-03	2-CS-02	3B-CS-02	
ALL	Create clearly named variables that represent different data types and perform operations on their values.	3-5-ETS1-3	1B-AP-09 1A-DA-06 1A-DA-07	2-AP-11	3A-AP-18	
THERE AND BACK AGAIN PERIMITER SCOUT SMART HIGHWAY ESCAPE ROOM	Analyze data to determine if a design solution works as intended.	K-PS2-2 K-2-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	1B-AP-16 1B-AP-17 1B-DA-07	2-AP-13 2-AP-15 2-AP-17 2-AP-19	3A-AP-16 3A-AP-18 3A-AP-22 3B-AP-21	
ALL	Develop programs with sequences and simple loops , to express ideas or address a problem.		1A-AP-10 1B-AP-12 1B-AP-13 1B-AP-17	2-AP-14 2-AP-16	3A-AP-14 3B-AP-16 3B-AP-20	
ALL	Test and debug (identify and fix errors) in a program.		1A-AP-14 1B-AP-15 1B-CS-03	2-AP-19	3A-AP-21 3B-AP-23	
FOLLOW THE LEADER COLORFUL REACTIONS ROBOT DOZER	Simplify solutions , generalize computational problems, i.e using lists , arrays, etc	K-2-ETS1-1	1A-AP-11 1B-AP-11 1B-CS-03 1B-AP-12	2-AP-14	3A-AP-14 3A-AP-15 3A-AP-17	
WALK THE LINE	Combine control structures, including nested loops and compound conditionals .		1B-AP-10	2-AP-12	3B-AP-23	
ALL	Increase the capabilities of a robot : create complex programs, designed as systems of interacting modules , each with a specific role, coordinating for a common overall purpose.		1B-CS-01 1B-DA-07		3B-AP-14 3A-AP-18	