Grade 4
Distance Learning Module 9: Week of: 6/1/2020-6/5/2020

Grade 4 Computer Coding - *Modified from Unit 2 - Computational Thinking*

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Algorithms are precise sequences of instructions for processes that can be executed by a computer or other operator, and are implemented using programming languages. People write programs for computers to execute algorithms. Programmers debug and revise their programs to improve the stability and efficiency of the program and end user experience.

Vocabulary: algorithm, program, debug, perseverance, frustrated, loop, efficient

Skills:

- Write an algorithm
- Write basic code using a block language
- Predict where a program will fail.
- Modify an existing program to solve errors using a variety of strategies
- Use loops to code efficiently, using as few steps as possible to solve a problem

Expectation: Students will learn and apply strategies for correcting coding errors, and use loops to code efficiently.

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Students will apply strategies to debug code	Weekly Introductory Video: Stevie and the Big Project Debugging Video Code.org lessons 3 and 4: Debugging with Scrat, Collecting with Laurel	Code.org Lesson 3 Completed online
Tuesday:	Meet! Angles and art	Nothing due
Wednesday: Students will use angles and measures to create art in code. Students will use repeat blocks to make code more efficient.	Video: Repeat Blocks Code.org Lesson 5: Creating Art with code!	Code.org through lesson 5.

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Thursday:		nothing due
Friday: Students will use loops to make code more efficient.	Meet! Loops / Repeat blocks Video: Loops! Coding with Rey and BB-8 Code.org Lessons 6 and 8: Coding with Rey and BB-8, Nested Loops in a Maze	completed lessons 6-8

Week criteria for success (attach student checklists or rubrics):

- Introduction video
- meets
- Debugging video
- Code.org Lesson 3
- Lesson 4
- Creating Art: Lesson 5
- Video: Repeat blocks
- Video: loops
- Code.org Lesson 6
- Code.org Lesson 8

Supportive resources and tutorials for the week (plans for re-teaching):

Need help? Send a message, and schedule a meet!