Lesson 8 - Working Collaboratively on a Build (Design)

Objectives

I can work collaboratively with my peers to construct a build.

Standards

- 4-6.CT.4 Decompose a problem into smaller named tasks, some of which can themselves be decomposed into smaller steps.
- 4-6.CT.5 Identify and name a task within a problem that gets performed multiple times while solving that problem, but with slightly different concrete details each time.
- 4-6.CT.8 Develop algorithms or programs that use repetition and conditionals for creative expression or to solve a problem.

Vocabulary

Loop - a structure that repeats a set of instructions (algorithms) until it is told to stop.

Nested Loop - A loop within a loop.

Conditional - An action that occurs if something specific happens.

Gradual Release of Responsibility (I do/We do/You do)

I Do/We Do

Lead-in: Now that you have planned, you should begin working based on your plans created on Day 1.

While you are working use documentation tools to document your process! These can include the camera, book & guill, screenshots of code, etc.

SUCCESS CRITERIA

Over the next several days, you will be working with your classmates in the Revisiting Biomes world. In multiplayer mode, you will work together to figure out how to manage the five different tasks found in four different areas of the island. You must:

Create at least 2 algorithms to solve the problem/task

- Utilize repeat loops, conditional loops, or nested loops in the program
- Test and debug your program as needed

You Do:

Day 2

Your group needs to:

PROGRAMMING			
	Exceeds (3)	MEETS (2)	APPROACHES (1)
CREATE ALGORITHMS	Three or more	Two Algorithms are	ONE SOLUTION IS
	SOLUTIONS ARE CREATED	CREATED FOR EACH TASK	CREATED FOR EACH TASK
	FOR EACH TASK		
UTILIZE LOOPS,	ALL TASKS INCLUDE A	ALL TASKS INCLUDE A	Some or all Tasks do
CONDITIONAL LOOPS,	LOOP, CONDITIONAL	LOOP, CONDITIONAL	NOT INCLUDE A LOOP,
OR NESTED LOOPS	LOOP, <u>AND</u> NESTED LOOPS	LOOP, <u>OR</u> NESTED LOOPS	CONDITIONAL LOOP, OR
	(THE ENTIRE PROJECT HAS		NESTED LOOP
	TO ONE OF EACH, NOT		
	EVERY TASK)		
TEST AND DEBUG	ALL PROGRAMS WORK	ALL PROGRAMS WORK	SOME OF THE PROGRAMS
YOUR PROGRAM	SUCCESSFULLY AND	SUCCESSFULLY	WORK
	UTILIZE INNOVATIVE		
	SOLUTIONS		
DOCUMENTATION	USED 3 OR MORE	USED AT LEAST 2	USED ONE OF THE
	DOCUMENTATION TOOLS	DOCUMENTATION TOOLS	DOCUMENTATION TOOLS