| **CodeX Lift-Off Remix Rubric** |
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| **Requirement** | **No evidence ←—-------------------------------------------------------→ Mastery** |
| **Programming Conventions** are followed | * Variable names aren’t descriptive
* Function names aren’t descriptive
* Code blocks inconsistently indented
* Capital letters used
* Code is not organized into sections
 |  | * Variable names are descriptive
* Function names are descriptive
* Code blocks consistently indented
* Use of small letters (not capital)
* Code is organized into sections
 |
| **Documentation and Readability**  | * No comments are used.
* Code is difficult to read because no blank lines were used, or too many blank lines were included.
 |  | * Frequent and descriptive comments are used regularly.
* Blank lines are used to help with readability.
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| **Use of Variables and constants** | * “Magic Numbers” or literal values are used in the code.
* Data isn’t tracked or updated (no counters, states, conversions, etc.).
 |  | * Constants are used to eliminate “magic numbers.”
* Variables are used for storing, keeping track of and updating data.
* Global and local variables are used.
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| **Use of Functions** | * No plan or algorithm to follow.
* Everything in one main program.
* Long sections of code.
* Functions use all global or all local variables.
* Functions don’t take parameters.
 |  | * Code is divided into smaller sections that accomplish a task.
* Parameters are used as needed.
* Local and global variables are used as needed.
* Functions return a value as needed.
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| **Use of Inputs**Buttons and sensors | * No peripherals are used for input.(button, switch, potentiometer)
* No sensors are read or used.(motion, temperature, sound, etc.)
 |  | * At least one peripheral is used for input.
* At least one sensor is used to give input.
* Conversion of raw data is performed as needed.
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| **Algorithms and Programming** | * No algorithms identified or used.
* Program performs the same for every execution, without input.
* Lists and tuples are not utilized when they would simplify the code.
 |  | * Algorithms are used to manipulate data and get results.
* Data is used to inform decisions.
* Lists and tuples are used to simplify data collection and implementation.
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| **Control Structures** | * Program does not have any if or if/else or if/elif/else statements.
* Program does not use any while loops.
* Nested loops or if statements are not used, or are used incorrectly.
 |  | * While loops and if statements are used to control the flow of execution.
* Conditional and logical operators are used appropriately.
* Nested while and if statements are used when needed.
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| **Use of Outputs**LEDs, speaker, motors | * No peripherals are used for output.(single LED, LED ring, servo, etc.)
 |  | * At least one peripheral is used for output.
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| **Collaboration** | * Students work independently or uncooperatively on a team.
 |  | * Students work collaboratively with shared tasks in their team to complete the project.
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| **Synthesis / Purpose** | * No clear purpose for the program.
* Program does not incorporate learning across the mission pack.
 |  | * Purpose of the program is clearly stated.
* Program combines learning, concepts and code from several missions.
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| **Code Completion** | * Code will not run or doesn’t complete the task correctly.
 |  | * Code runs and accomplishes its task without any errors, including logic.
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| **Evaluating Computational Artifacts** | * No discussion on the global impact of digital technologies.
 |  | * Discuss the global impact of digital technologies (issues of bias, equity, resources, accessibility, etc.)
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