Coding Workbook Advanced Adapted and used with permission from Calgary Public Library

Activity One

Today's Module

http://studio.code.org/s/course3/stage/6/puzzle/1

 Stage 6: Bee: Functions
 1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11

• Learn about functions: how to define your own set of instructions that can be used in a program.

Vocabulary Words

• Function: a piece of code that you can easily call over and over again.

Today I Learned... (write or draw about something you learned today)

Activity Two

Today's Module

http://studio.code.org/s/course3/stage/11/puzzle/1



- Learn how to nest loops: repeat a set of instructions that includes a repeat loop.
- Once again, you're practising pattern matching.

Vocabulary Word

- Loop: the action of doing something over and over again.
- Pattern Matching: Finding similarities between things.

Today I Learned... (write or draw about something you learned today)

Activity Three

Today's Module

http://studio.code.org/s/course3/stage/12/puzzle/1

Stage 12: Farmer: While Loops 1 2 3 4 5 6 7 8 9

- Today's activity is about a different kind of loop: while loops.
- When you use a while loop, the action continues for as long as the statement is true.

Vocabulary Words

- **Conditionals:** Statements that only run under certain conditions or situations.
- Loop: the action of doing something over and over again.

Today I Learned... (write or draw about something you learned today)

Activity Four

Today's Module

http://studio.code.org/s/course4/stage/6/puzzle/1



- Learn about variables, an important part of coding.
- You are also working on the skills of pattern matching and abstraction.

Vocabulary Words

- **Abstraction:** Pulling out specific differences to make one solution work for multiple problems.
- **Variable:** A placeholder for a piece of information that can change.

Today I Learned... (write or draw about something you learned today)

Activity Five

Today's Module

http://studio.code.org/s/course4/stage/14/puzzle/1



• Learn how to use parameters with your functions to create more useful programs.

Vocabulary Words

- Function: a piece of code that you can easily call over and over again.
- **Parameter:** An extra piece of information that you pass to the function to customize it for a specific need.

Today I Learned... (write or draw about something you learned today)

Activity Six

Today's Module

http://studio.code.org/s/course4/stage/15/puzzle/1



- Practise everything you learned by creating your own original game!
- When you're done, share the link with your family and friends so they can play the game you created.

The link for your game is: (write it out carefully)

Today I Learned... (write or draw about something you learned today)

I Really Liked... (write or draw about something you enjoyed today)

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Vocabulary word definitions were taken directly from the glossary of code.org: https://code.org/curriculum/docs/k-5/glossary