INDIAN SCHOOL AL WADI AL KABIR

Class: VII	Department: Computer Science	
Worksheet with solutions	**Subject: Computer Science** **Topic: Advanced MakeCode Arcade**	**Year: 2025-2026**

i) Multiple choice questions?

1. Which type of blocks runs a code a specific number of times?
   a) forever block
   b) while block
   c) break block
   d) repeat block

2. The forever loop is mainly for?
   a) Running code once only
   b) Running code until a condition becomes false
   c) Repeating an action a specific number of times
   d) Continuously running a block of code without skipping

3. The break statement is used to:
   a) Skip the next iteration of the loop
   b) **Exit a loop before it completes**
   c) Repeat a block of code a specific number of times
   d) Continuously run a block of code without skipping

4. Parameters in a function are:
   a) Actual value passed to the function
   b) **Variables defined in the function's definition**
   c) Loops than run continuously
   d) Statement than exit loops early

5. In MakeCode Arcade, functions are used for:
   a) Repeating blocks of code
   b) Stopping loops
   c) **Organising and reusing code**
   d) Changing the flow of loops

6. What does a 'continue' statement do?
   a) Start a loop
   b) Ends a loop
   c) **Skips to next iteration**
   d) Restarts a loop

ii) Fill in the blanks?

1. <u>Loop</u> runs a statement or group of statements multiple times till the given conditions is true.
2. The <u>while</u> loop runs if a specified condition is true.
3. <u>Forever</u> loop is used for actions that need to happen repeatedly without stopping.
4. <u>Break</u> statement is used to come out of the loop early when specific condition is met.
5. <u>Function</u> help to organise code, make it reusable and improve readability.

iii) True or False

1. Jump statements in programming are used to change the flow of control by skipping, starting again or exiting certain part of the code - True
2. Arguments is the actual value passed to a function when it is called – True
3. The continue statement stops the loop from its execution. - False
4. The Add block is used to concatenate (combine) two or more pieces of text (string) together in to a single string. - False

5. The for loop allows for actions and tasks that repeat until certain conditions are met. - True

iv) Answer the following?

1. <u>What is the purpose of using loops in programming?</u>

Loops are the fundamental programming constructs that allow us to repeat the actions without writing the code again and again. They make our code shorter and easier to understand.

2. <u>Explain how the break statement works within the loop?</u>

The break statement is used to exit a loop before it finishes all its iteration, usually when a specific condition is met.

3. <u>What are the benefits of using functions in programming?</u>

Functions help organize code in to smaller, reusable blocks, making the program more readable, easier to debug and reducing repetition.

4. <u>Explain the concept of parameters and arguments in the context of a function?</u>

Parameters are variables listed in a function's definition as placeholders. Arguments are the actual value passed to the function when it is called.

5. <u>Describe the process of creating a function in MakeCode Arcade</u>

1. Open the function block

2. Create a new function

3. Add code to the function

4. Call the function