



**Reviving hands-on educational play for
learning skills of tomorrow**
PROJECT N° 2019-1-UK01-KA201-061466

MODULE 1

Minecraft Pi - Assessment

DEVELOPED BY D-LEARN & CCSDE

CIVIC



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MODULE DESCRIPTION

Minecraft Pi is a version of Minecraft, with minimal features, developed for Raspberry Pi. Pi edition is intended as an educational tool for novice programmers, allowing users to enjoy the game and learn programming at the same time.

This resource presents the most important and practical guidelines for Minecraft Pi, such as how to control the player, manually build with blocks and use the Python interface to manipulate the world around you. It is meant for educational purposes and is considered a quick but all-inclusive manual for introducing a new player to Minecraft Pi.





1. Minecraft Pi support full features of the Minecraft game.
 - a. Yes
 - b. No**

2. I can run Minecraft by:
 - a. Double clicking the desktop icon
 - b. Navigating to the main menu
 - c. All of the above**



3. Minecraft Pi has an API to control the game using Python programming interface and a number of scripts.
 - a. **Yes**
 - b. No

4. A block in Minecraft is 1m^3 .
 - a. Yes
 - b. No
 - c. **Not always**



5. What does the following line of code do: *from mcpi.minecraft import Minecraft:*
- a. Code is wrong
 - b. Connects Python programming interface to Minecraft**
 - c. Changes camera angle in game
 - d. None of the above
6. We can teleport our player by using the `setPos()` command.
- a. Yes**
 - b. No

7. What does the following line of code mean, `gold = 41`:
- We set the price of an item at 41 units of gold
 - We set 41 blocks of gold to be used in game
 - 41 represents the block ID of gold saved in a variable named gold**
8. What does the last digit mean in the following line of code, `mc.setBlock(x, y, z, wool, 2)`:
- Extra property of block type wool**
 - We request 2 blocks of wool
 - Represents some kind of coordinates



9. The line `GPIO.setup(23, GPIO.IN)` tells the Pi that this pin 23 is used as an input.
- a. **Yes**
 - b. No
10. To create a circuit for using a button with my Raspberry Pi, I need a breadboard, two jumper cables and the button.
- a. Yes
 - b. **No**

11. Matching Exercise:

- A. Code
- B. Function
- C. Input/Output command
- D. Terminal window
- E. Minecraft
- F. Raspberry Pi

A-6

B-5

C-4

D-3

E-2

F-1

1. Credit card sized, fully functional computer which operates on Raspberry Pi OS.
2. Open-world educational game where players can build their own virtual worlds.
3. A program that is offered by the operating system and is used to execute scripts.
4. Commands that are given by the player to the game to be processed.
5. Contains commands which describe what actions should be done in a program or in a game.
6. Instructions that are set for realization of actions in the game.



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