Coding in Minecraft: Python Advanced Capstone Credential Exam Objective Domain

1) Designing & Developing Algorithms (30%)	1.1) Design and create algorithms 1.2) Predict the outcome of running a series of statements 1.3) Apply & understand the concept of iteration 1.4) Apply & understand the concept of selection 1.5) Debug and resolve problems in algorithms
2) Coding in block-based coding using MakeCode (35%)	2.1) Apply & understand variable types in MakeCode a. Text, number, Boolean, coordinate b. Perform arithmetic operations on variables c. Perform string concatenation on text variables 2.2) Apply & understand logic in MakeCode a. IF THEN statements b. IF THEN ELSE statements 2.3) Apply & understand comparison operators in MakeCode a. Equal to, not equal to, greater than (or equal to) and less than (or equal to) 2.4) Apply & understand iteration in MakeCode a. Repeat loops b. For loops c. While loops 2.5) Identify and resolve errors in MakeCode
3) Coding in text-based coding using Python (35%)	3.1) Identify where code could be re-used 3.2) Follow Python code and predict the outcome 3.3) Identify & understand logic in Python a. if statements b. elif statements 3.4) Identify & understand comparison operators in Python a. Equal to, not equal to, greater than (or equal to) and less than (or equal to) 3.5) Identify & understand iteration in Python a. For loops b. While loops 3.6) Identify & understand errors in Python code a. Syntax errors b. Semantic errors

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