

Coding in Minecraft Capstone Credential Exam Objective Domains

<p>1) Designing & Developing Algorithms (30%)</p>	<p>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</p>
<p>2) Coding in block-based coding using MakeCode (35%)</p>	<p>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</p>
<p>3) Coding in text-based coding using JavaScript or Python (35%)</p>	<p>3.1) Identify where code could be re-used 3.2) Follow JavaScript or Python code and predict the outcome 3.3) Identify & understand logic in JavaScript/Python a. IF THEN statements (JavaScript) / if statements (Python) b. IF THEN ELSE statements (JavaScript) / elif statements (Python) 3.4) Identify & understand comparison operators in JavaScript or Python a. Equal to, not equal to, greater than (or equal to) and less than (or equal to) 3.5) Identify & understand iteration in JavaScript or Python a. Repeat loops (JavaScript only) b. For loops c. While loops 3.6) Identify & understand errors in JavaScript/Python code a. Syntax errors b. Semantic errors</p>