

# ICT Programming & Logic Essentials Objectives Matrix

The *ICT Programming & Logic Essentials* course focuses on fundamental programming concepts. Students will learn about binary numbers, programming languages and ways to structure a program. They will explore problem-solving strategies, and learn about algorithms and programming errors. They will be introduced to structured programming, and work with variables and operators.

ICT Programming & Logic Essentials Objective	ICT Programming & Logic Essentials Courseware Lesson(s) and Section(s)
<b>Domain 4.1: Demonstrate fundamental knowledge of programming languages and how they are used to communicate with computers.</b>	
4.1.1: Define "programming," and discuss its role in computing.	<b>Lesson 1: Introduction to Programming</b> - What Is Programming?
4.1.2: Explain the binary representation of data and programs in computers.	<b>Lesson 1: Introduction to Programming</b> - Overview of Programming Languages
4.1.3: Distinguish among the three types of programming languages (machine, assembly, high-level), and give examples.	<b>Lesson 1: Introduction to Programming</b> - Overview of Programming Languages
4.1.4: Compare and contrast languages that are usually compiled (e.g., C++, Java) and interpreted (e.g., JavaScript, Python).	<b>Lesson 1: Introduction to Programming</b> - Overview of Programming Languages <b>Lesson 7: Transition to Coding</b> - Exploring Other Visual Coding Environments
4.1.5: Describe the structure of a simple program, and explain why sequencing is important.	<b>Lesson 1: Introduction to Programming</b> - Deconstructing a Simple Program
4.1.6: Write a program design document using pseudocode that shows program flow.	<b>Lesson 1: Introduction to Programming</b> - Deconstructing a Simple Program
<b>Domain 4.2: Demonstrate the use of logic and problem solving, and relate these concepts to computer programming.</b>	
4.2.1: The strategies used in problem solving, and how they relate to computer programming.	<b>Lesson 2: Thinking Logically</b> - Problem Solving
4.2.2: An "algorithm," is a set of rules or instructions for performing a task or problem solving.	<b>Lesson 2: Thinking Logically</b> - Algorithms
4.2.3: There are three types of programming errors (i.e., logic, syntax, runtime). There are different forms of testing that can be used to locate and debug errors.	<b>Lesson 2: Thinking Logically</b> - Testing and Debugging Code
4.2.4: Solve a problem using logic by planning a strategy, designing and testing a hypothesis, and/or creating a set of step-by-step instructions to perform a task.	<b>Lesson 2: Thinking Logically</b> - Algorithms

# Essentials Of Logic Programming

**J Spring**



## **Essentials Of Logic Programming:**

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