

The background is a dark blue field filled with various line-art icons in light blue, yellow, and red. These include: a speech bubble with 'HTML 5', a speech bubble with 'JS', a speech bubble with binary code '01101000' and '01101001', a Python logo, a satellite, a globe, a computer monitor and tower, a keyboard, a magnifying glass, a group of stylized people, two interlocking gears, a Wi-Fi symbol, a cloud, a planet with a ring, a network diagram, an '@' symbol, a smartphone, and the text '</i>tk' in a stylized font. The central text is enclosed in a white rounded rectangle.

`</i>tk`

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7 - Emerald

Overview:

6
Exercise

2.81
School Average

41
Levels

22.92
School Average

Table:

All exercises			
Exercise	Levels	Concepts	Blocks Used
Fun with Basics	10/10	Sequence, Algorithmic Thinking	126
Loopy Loops	8/12	Loops, Debugging	107
Conditional Crops	4/12	Conditional Statements, Pattern Recognition	101
Dog and the loops	6/8	Loops, Variables, Functions	82
Swamp conditionals	4/4	Conditional Statements, Loops, Variables, Sequence, Events, Functions, Decomposition, Algorithmic Thinking	73
Functions on the field	9/9	Conditional Statements, Loops, Variables, Sequence, Events, Functions, Decomposition, Algorithmic Thinking	0

List of Concepts:

Decomposition

Breaking down a problem into smaller, more manageable parts.

Computational Thinking Concepts

Pattern Recognition

Identifying similarities or patterns within problems.

Computational Thinking Concepts

Abstraction

Simplifying complex problems by focusing on essential details and ignoring unnecessary information.

Computational Thinking Concepts

Algorithmic Thinking

Developing step-by-step instructions or rules to solve a problem.

Computational Thinking Concepts

Sequence

Understanding and writing instructions in a specific order.

Programming Concepts

Variables

Introducing the concept of containers for storing information.

Programming Concepts

Loops

Repeating a set of instructions multiple times.

Programming Concepts

Conditional Statements

Making decisions in the program based on certain conditions.

Programming Concepts

Events

Reacting to user inputs or specific occurrences in the program.

Programming Concepts

Functions

Creating reusable blocks of code to perform specific tasks.

Data Types

Introducing the idea of different types of data, such as numbers, text, and Boolean values.

Input and Output

Understanding how programs receive information (input) and produce results (output).

Debugging

Identifying and fixing errors or mistakes in the code.

Comments

Adding explanations and notes within the code for better understanding.

Event Handling

Responding to events triggered by user actions or other parts of the program.

Graphics and Animation

Introducing basic concepts of drawing and creating movement in a program.

Simulation

Creating virtual scenarios to model real-world situations.

Collaboration

Encouraging teamwork and sharing of code with others.

Iteration

Repeating a set of instructions or a process.

