Introduction To Coding Logic
Suitable for: G1 - G3

Prerequisite: None
Duration: 25 Weeks
Classes per Week: 1 class (45 minutes each)

Course Overview:
This course introduces students to the fundamentals of coding logic, focusing on building problem-solving skills and understanding programming basics. Students will explore concepts like movement, color, variables, conditionals, and loops in a visual and engaging way. By the end of the course, students will have a strong foundation in logical thinking and coding principles, preparing them for more advanced programming.

Covered Topics

Unit 1: Introduction to Coding and Basic Movements

- Understanding what coding is and its applications
- Getting started with Trinket as a coding platform
- Exploring simple movements and commands

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Unit 2: Drawing and Creating Visuals

- Using shapes like circles to create designs
- Exploring stamps and replicating visuals
- Learning to use numbers and text for creative output

Unit 3: Colors and Variables

- Applying RGB colors to designs
- Introduction to variables for storing information
- Experimenting with random values for creative output

Unit 4: Input, Conditionals, and Decision Making

- Taking input from users to make interactive programs
- Using conditionals to add decision-making in programs
- Exploring multiple conditions for complex outcomes

Unit 5: Loops and Iteration

- Using loops for repeated actions
- Applying loops for efficient coding and design patterns
- Practicing loops in various projects

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Materials Needed:

- Access to a computer or tablet
- Internet connection
- Chrome browser

Assessment

At the end of each lesson, learners will be assessed on their ability to apply coding logic concepts, such as movements, variables, conditionals, and loops, in practical projects. Assessments will focus on students' problem-solving skills and understanding of foundational coding principles.

Certification

A certificate of completion will be awarded to students who successfully complete the course, recognizing their proficiency in introductory coding logic.