

Hamster Coding

Scratch 16

Written by ConceptOn



How to Use

This manual is designed for the educational utilization of the Hamster robot.

- · Please use this manual as on-screen instructions when teaching the Hamster class.
- · The contents are easy to understand. Just read them before the class.
- · Worksheets can be downloaded from the Robomation website.
- This manual can be used to ensure the best lesson plan.
- · For more information, contact us at <u>7concepton@daum.net</u>.



Hamster Coding Scratch 16

Let's get started with Hamster coding with the Scratch program!

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The use of the Scratch programs will make coding more interesting!



Today's Activity

Division	Description	Time
Introduction	Explore the problem. Why not try an exciting Hamster football match?	5min
Development	Find a solution. Let's code by setting arrow keys to control the movements. Solve the problem. Let's command your Hamster to move according to a given mission.	30min
Conclusion	Review today's activities. Let's talk about what you have learned and enjoyed.	5min





Get ready

First, let's find out what is needed for Hamster coding.





Open the program

When opening the program, turn on Hamster and plug the Bluetooth Dongle into the USB port of your PC.



Robot football match

Let's enjoy watching an exciting robot football match.





Let's think

What should Hamster robots do to play football? Let's recall the robot football and decide what your Hamster robots should do.



Guess how?

Let's get ready for a Hamster football match. Preparations: Hamster, Ping-Pong Ball, Maze Board or Paper





Exercise 🚺

Let's write the code so that Hamster robots can drive and dribble the ball.





Exercise 2

Let's write the code so that Hamster robots can pass the ball to each other.





Exercise 3

Let's dribble and shoot the ball.





Exercise 4

Let's write the code with conditional statements. Think of and write the code to control your Hamster robots.







Hamster World Cup

Let's start off with an exciting Hamster football match.





Let's Review



Did you encounter any difficulties?

What interested you the most about Hamster robot?

