e-book

Hamster Unboxing

Written by ConceptOn

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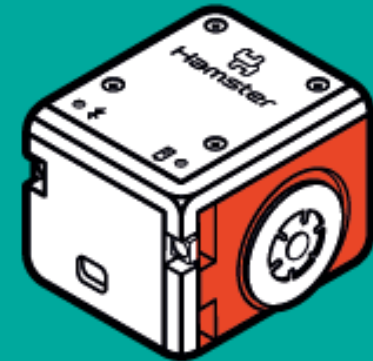
How to Use

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 7concepton@daum.net.

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Hamster Coding Unboxing

Understanding Hamster will make coding more fun and interesting!

I'm the one who will use Hamster, so I need to understand it.

Today's Activity

Division	Description	Time
Introduction	**Explore the problem.** What is inside the Hamster box?	5min
Development	**Find out a solution.** Let's take a closer look at the structure and functions of Hamster. **Solve the problem.** Let's talk about the names and uses of each part of Hamster.	30min
Conclusion	**Review today's activities.** Let's talk about what you have learned and found interesting.	5min

Preparation : Hamster, Bluetooth Dongle, charging cable, a PC, writing supplies

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Take a closer look at the structure and functions of your Hamster.

Then, let's talk about what you want to do with it!

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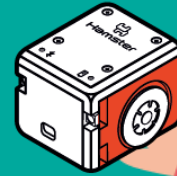
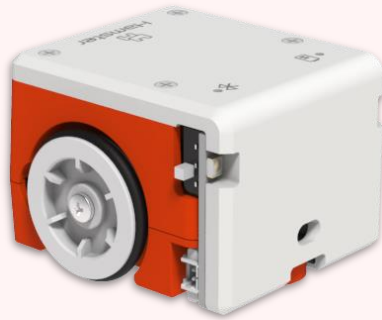# About the Hamster robot

Hamster
My First Coding Robot

For more information about the structure and functions of Hamster, please see the manual included in the product box or visit the **Robomation website**.

Let's open the Hamster box

Pinkie

These are the ones inside the Hamster box.
Can you guess what they are?

Well, their names are…

Sunny

1 H _ _ s _ _ r

2 U _ _ do _ g _ e

3 Ch _ _ ging   c _ b _ e

Let's find the right component for each number and guess their names.

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1 What Hamster is all about

Let's check the part(s) with the O mark.

First, you should turn on your Hamster to use it.

Where is the power switch?
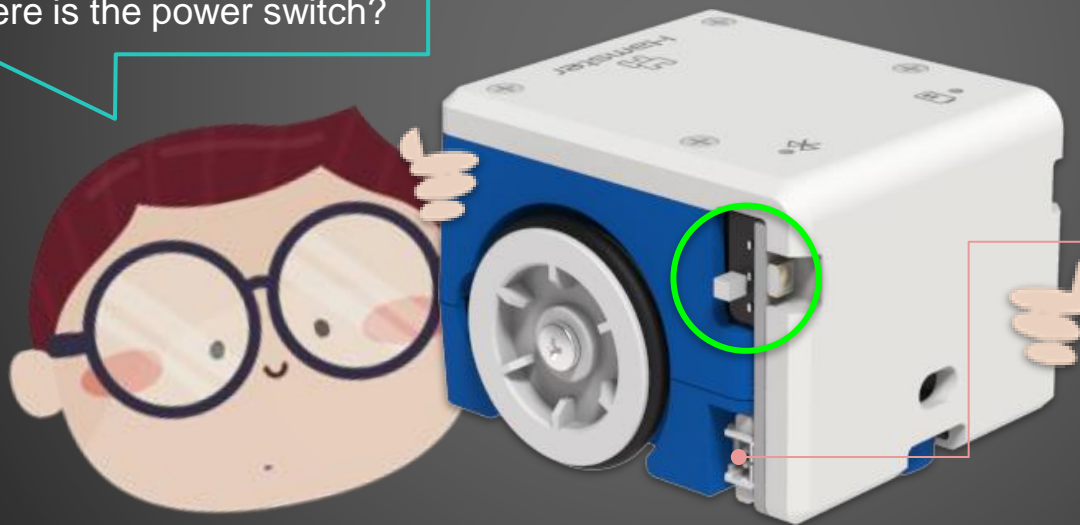
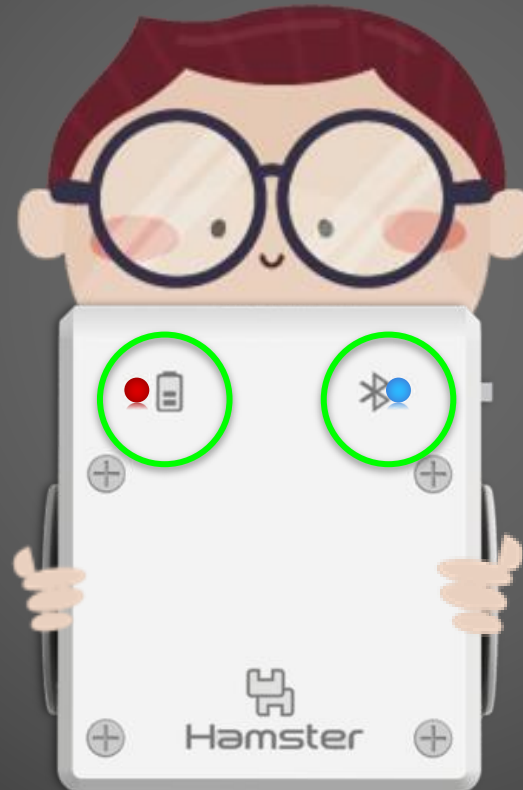The auxiliary power terminal (3.7 V) is used to power the connectors.

Why not find out where the power switch is and turn it on?

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2 What Hamster is all about

Let's check the part(s) with the O mark.

Lights are flickering
on the top of Hamster.

What do you think they are?

The red light turns on when it is charging.

The blue light flickers when a device is
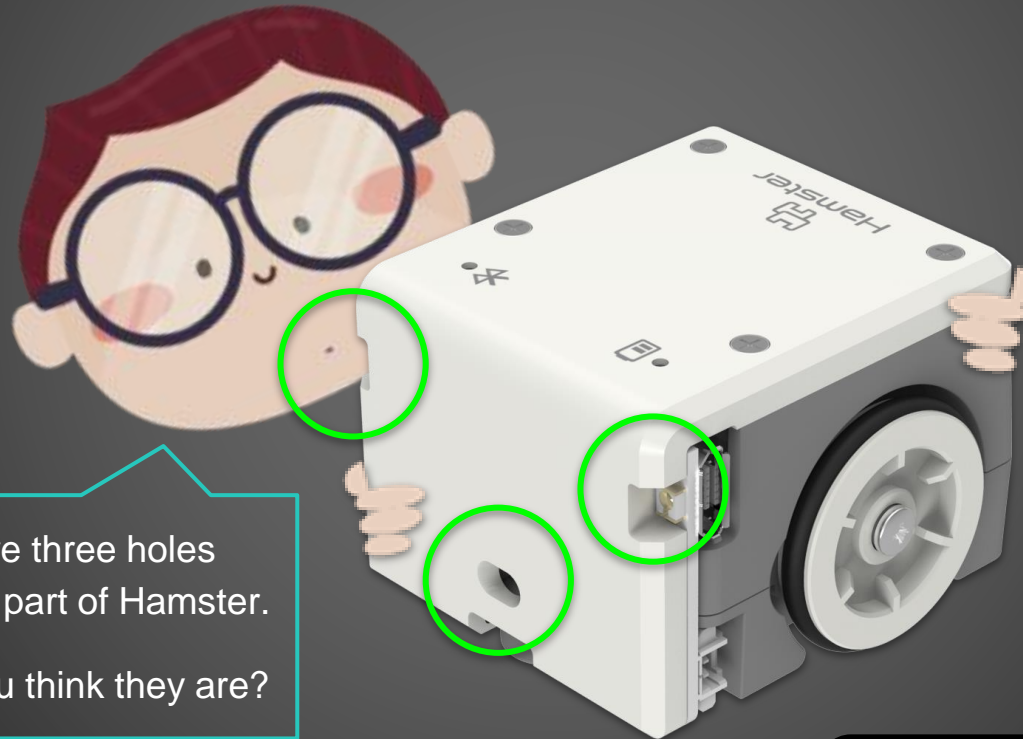paired through Bluetooth.

Hamster

They indicate the status of your Hamster.
Left: Charging indicator
Right: Bluetooth connection indicator

3 What Hamster is all about

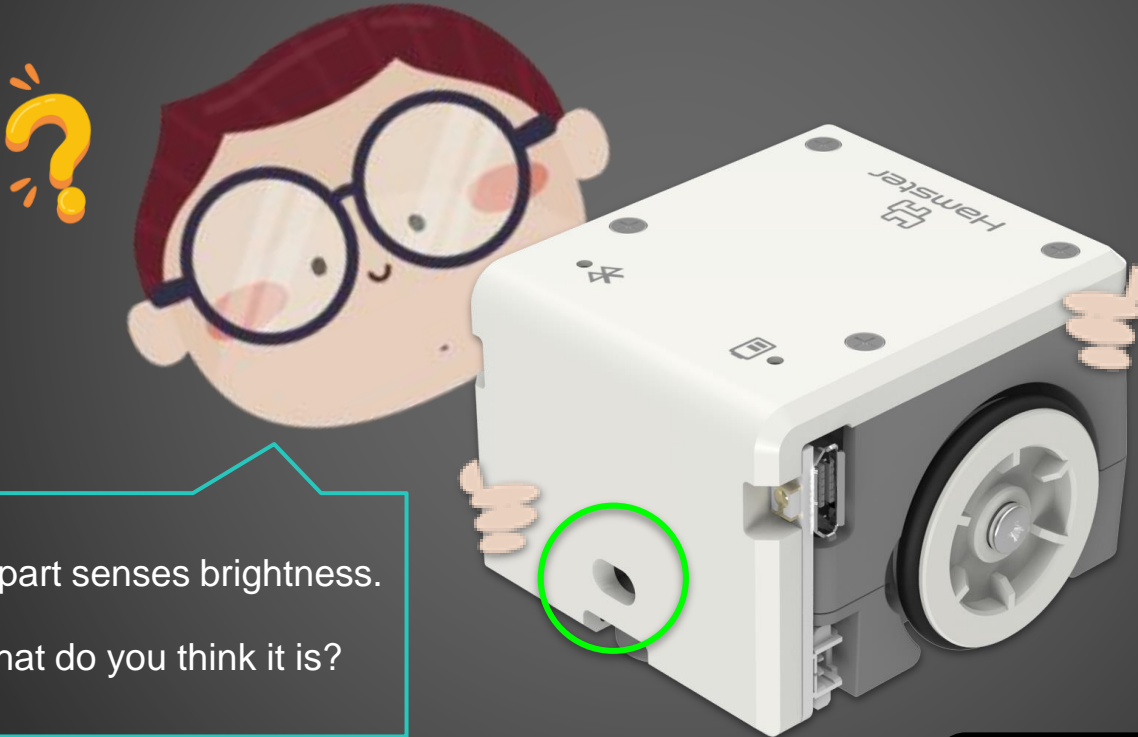Let's check the part(s) with the O mark.

There are three holes
on the front part of Hamster.

What do you think they are?

They are input units.
Above: Proximity sensor (infrared transmission) × 2
Below: Proximity sensor (infrared reception) × 1

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4 What Hamster is all about

Let's check the part(s) with the O mark.

This part senses brightness.

What do you think it is?

It is an input unit that senses brightness.

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5 What Hamster is all about
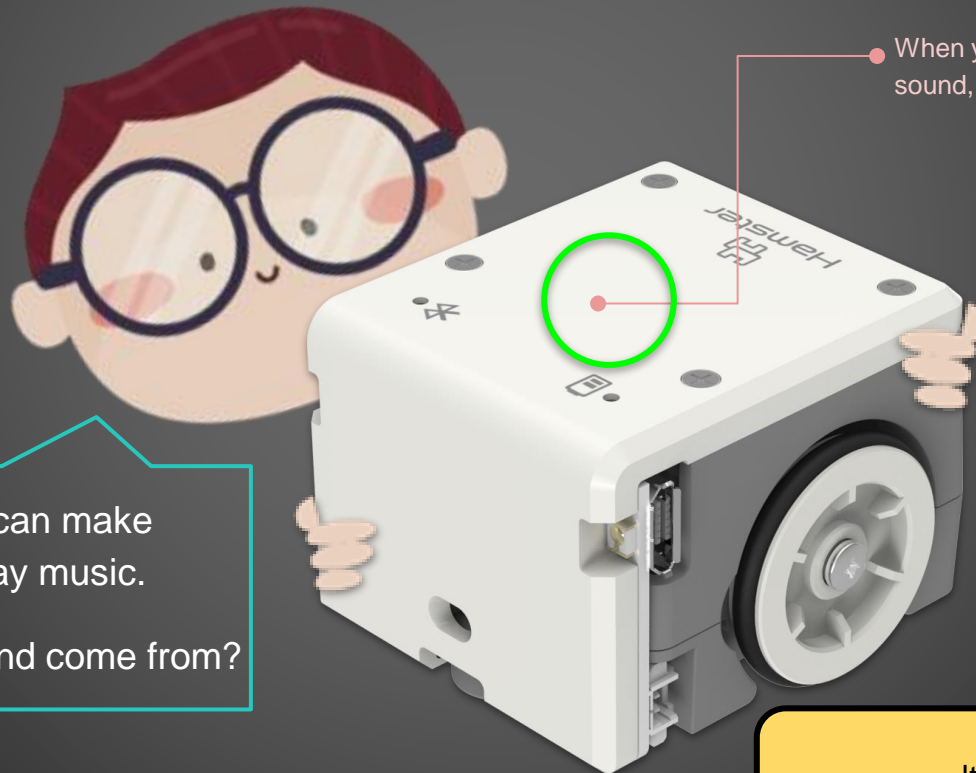
Let's check the part(s) with the O mark.
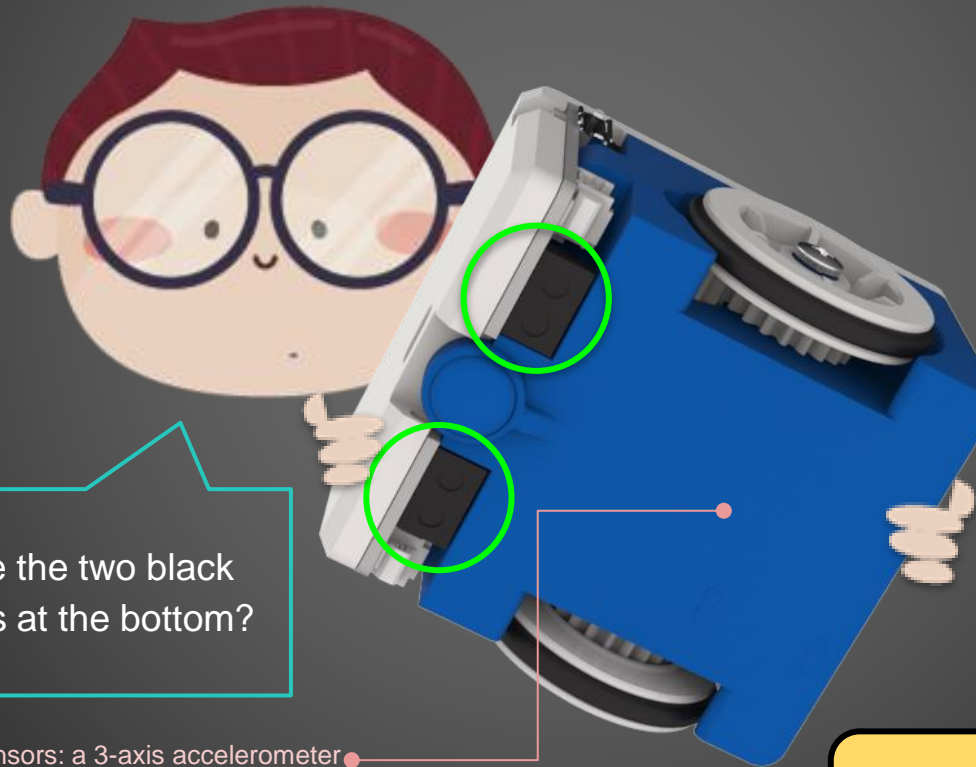
What are the two black rectangles at the bottom?

They are hidden sensors: a 3-axis accelerometer sensor and an internal temperature sensor.

They are input units.
Floor sensor (infrared sensor) × 2

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6 What Hamster is all about

Let's check the part(s) with the O mark.

When your Hamster makes a sound, put your ear to this part.
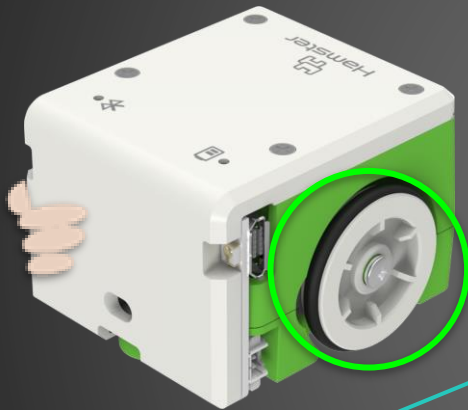
Your Hamster can make sounds and play music.

Where does the sound come from?

It is an output unit.
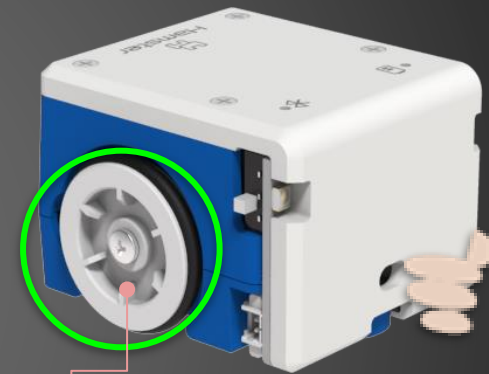Piezo speaker (built-in)

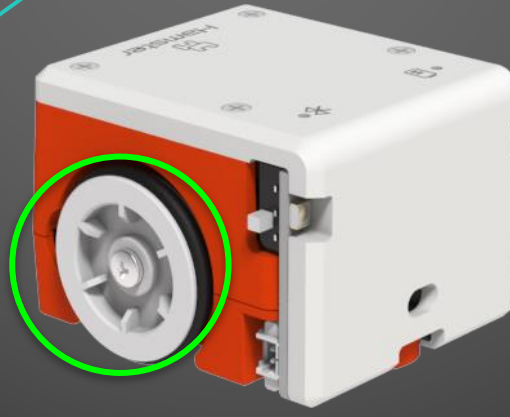**ROBOMATION**
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7 What Hamster is all about

Let's check the part(s) with the O mark.

Hamster uses this
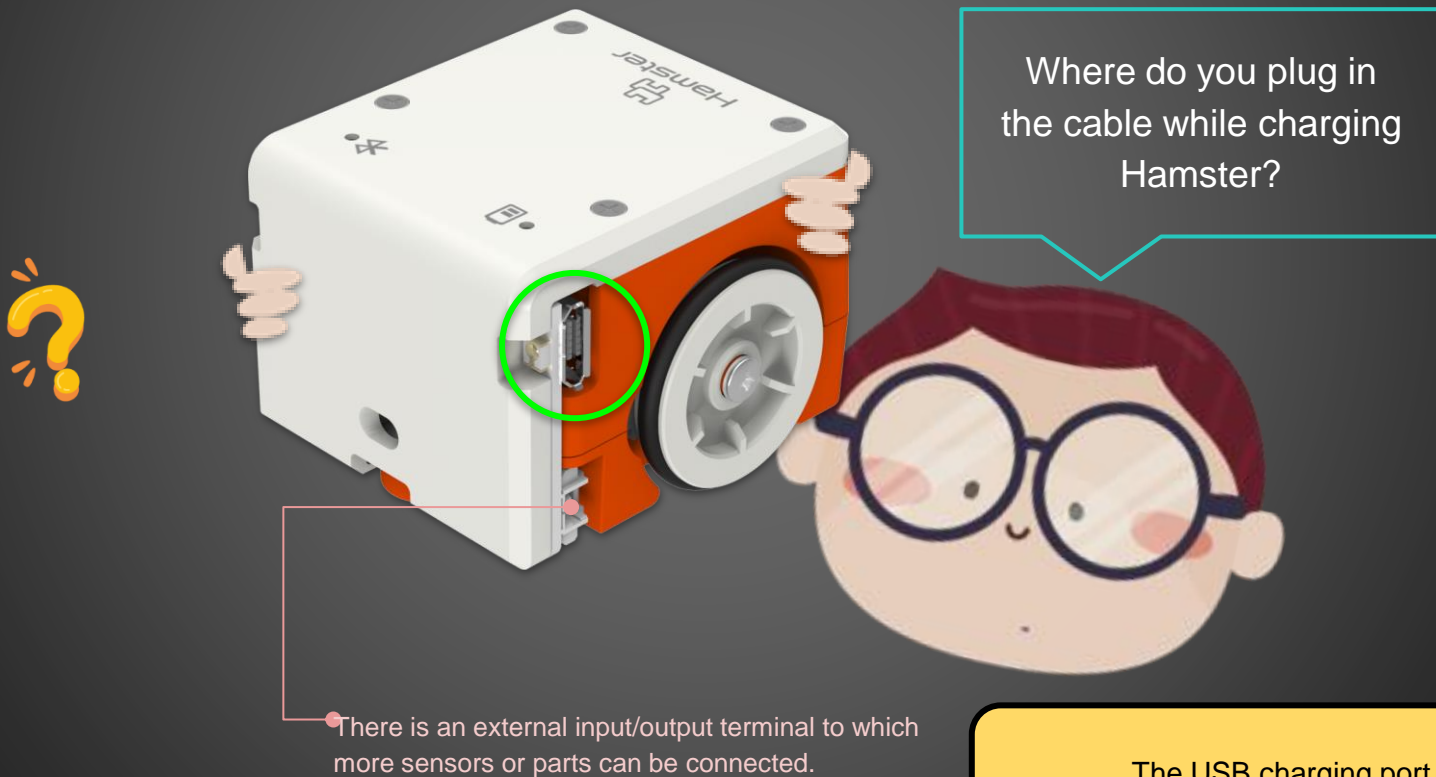when it moves or rotates.

What do you think it is?

A motor is connected to the inside of the wheel.

It is an output unit.
Motor × 2

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8 What Hamster is all about

Let's check the part(s) with the O mark.

Where do you plug in the cable while charging Hamster?

There is an external input/output terminal to which more sensors or parts can be connected.

The USB charging port is where your Hamster is powered.

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What would you like to do with your Hamster?

Pinkie: Please tell us what you want to do with your Hamster.
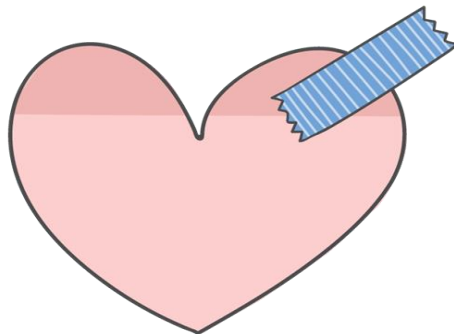
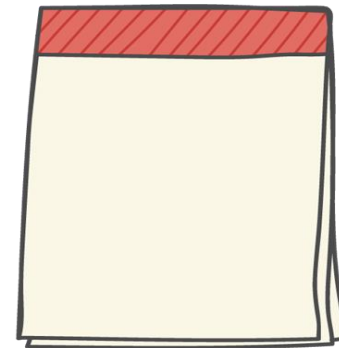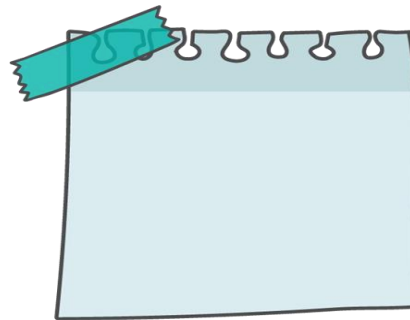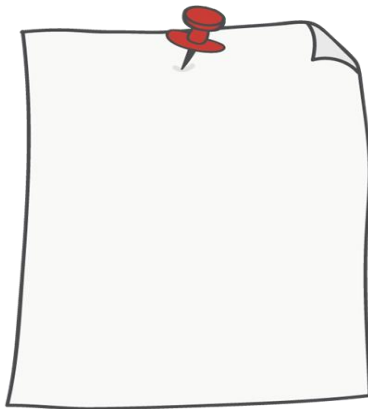**Sunny:** Well, I need some time to think about it.

※ Why not write down your ideas with a pen and paper and talk about them together?

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What do you want do?

Let's talk about what you want to do with your Hamster.
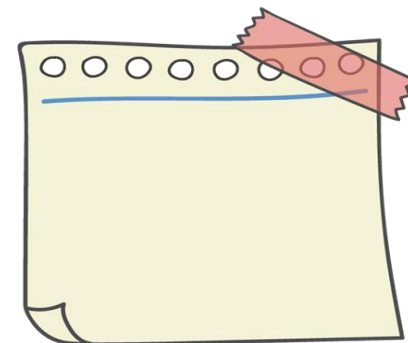
Let's Review

😛 What did you learn today?

😅 Did you encounter any difficulties?

😍 What interested you the most about Hamster robot?

See you again!

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