

รายวิชา ภาษาอังกฤษ

รหัสวิชา อ22102

ชั้นมัธยมศึกษาปีที่ 2

# The Function of Invention

ครูผู้สอน ครูสรวรยา อุตพรหม

ครูศุภณัฐ รักพงษ์





# The Function of Invention

# จุดประสงค์การเรียนรู้



1. ออกเสียงคำศัพท์ เขียนสะกดคำ พร้อมบอก  
ความหมายคำศัพท์เกี่ยวกับการคิดค้น  
ประดิษฐ์ และพัฒนา
2. อธิบายที่มาของสิ่งประดิษฐ์ได้



# The Robotic Vacuum Cleaner

The first robotic vacuum was invented in 1996. It was made by Electrolux, Swedish household and professional appliances manufacturer. It was called “Trilobite”. A year later iRobot, an American advanced technology company, launched the Roomba. This robovac can change direction when it run into something, detect dirty spots on the floor, and can detect steep drops. It became popular very fast and other companies returned to the idea of a robotic vacuum cleaner. Roomba has over 40 models this day. Neato Robotics made a XV-11 robotic vacuum which uses laser-vision instead of a traditional ultrasound while Dyson Company tries to create a robotic vacuum that use a vision system with cameras for navigation.





# Vocabulary





# appliance (n.)

**a machine to cook,  
to clean etc.**

**Ex. He enjoyed the use  
of electric appliances.**





**robotic** (n.)

**like a robot**

**Ex. He has robotic limbs.**





# launch (v.)

**to make  
a product**

**Ex. He had launched on  
his hour of work.**







# direction (n.)

**the way to  
move**

**Ex. We are going in  
the right direction.**





# detect (v.)

to discover

**Ex. iRobot detects dirty spots on the floor.**





# spot (n.)

**a small round  
area**

**Ex. iRobot detects dirty  
spots on the floor.**





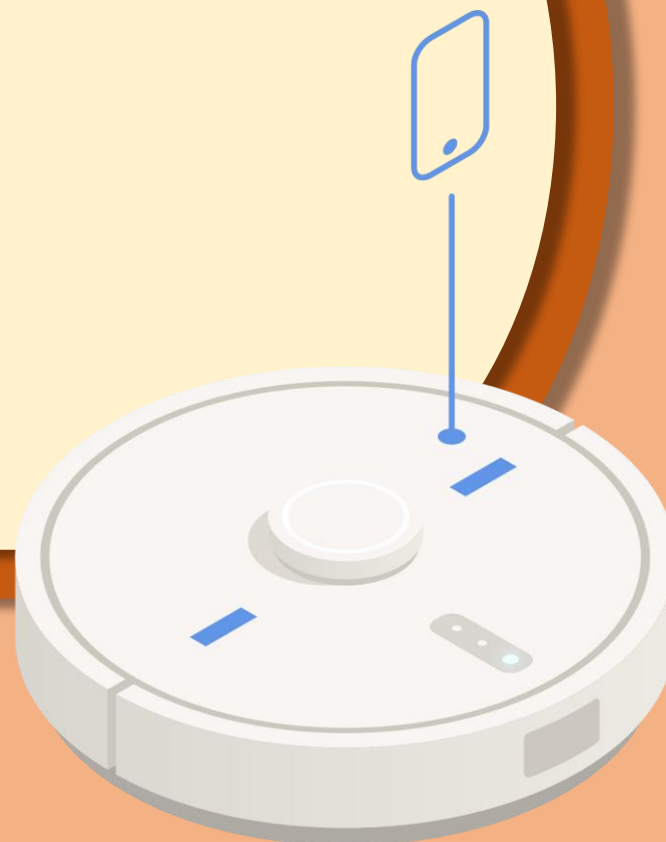
# navigation (n.)

**the process of  
planning a route**

**Ex. It uses a vision  
system with cameras  
for navigation.**



# The Robotic Vacuum Cleaner





**The first robotic vacuum was invented in 1996. It was made by Electrolux, Swedish household and professional appliances manufacturer. It was called “Trilobite”.**



**A year later iRobot, an American advanced technology company, launched the Roomba. This robovac can change direction when it run into something, detect dirty spots on the floor, and can detect steep drops.**



**It became popular very fast and other companies returned to the idea of a robotic vacuum cleaner. Roomba has over 40 models this day.**





**Neato Robotics made a XV-11 robotic vacuum which uses laser-vision instead of a traditional ultrasound while Dyson Company tries to create a robotic vacuum that use a vision system with cameras for navigation.**



# Worksheet 1

## The Robotic Vacuum Cleaner

## The Robotic Vacuum Cleaner

The first robotic vacuum was invented in 1996. It was made by Electrolux, Swedish household and professional appliances manufacturer. It was called "Trilobite". A year later iRobot, an American advanced technology company, launched the Roomba. This robovac can change direction when it run into something, detect dirty spots on the floor, and can detect steep drops. It became popular very fast and other companies returned to the idea of a robotic vacuum cleaner. Roomba has over 40 models this day. Neato Robotics made a XV-11 robotic vacuum which uses laser-vision instead of a traditional ultrasound while Dyson Company tries to create a robotic vacuum that use a vision system with cameras for navigation.

1. When was the first robotic vacuum invented?  
\_\_\_\_\_
2. Who invented the robotic vacuum?  
\_\_\_\_\_
3. Who invented Roomba?  
\_\_\_\_\_
4. How does the Roomba work?  
\_\_\_\_\_
5. How many models of robovac are there?  
\_\_\_\_\_
6. How does the robovac from Dyson Company work?  
\_\_\_\_\_



# Worksheet 1

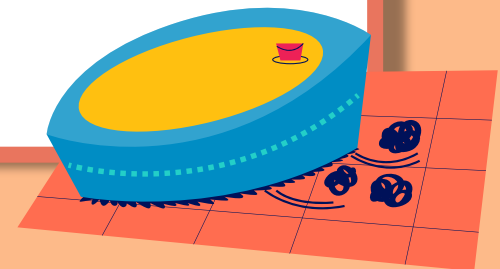
**Directions:**  
**Read this  
extract then  
answer the  
questions.**



1

When was the first robotic vacuum invented?

1996



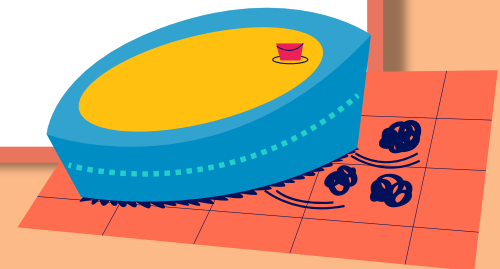


**The first robotic vacuum was invented in 1996. It was made by Electrolux, Swedish household and professional appliances manufacturer. It was called “Trilobite”.**

2

Who invented the robotic vacuum?

**Electrolux**



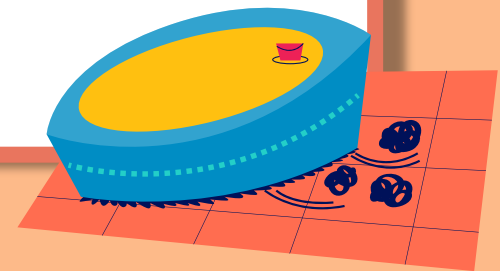


The first robotic vacuum was invented in 1996. It was made by Electrolux, Swedish household and professional appliances manufacturer. It was called **“Trilobite”**.

3

Who invented Roomba?

iRobot



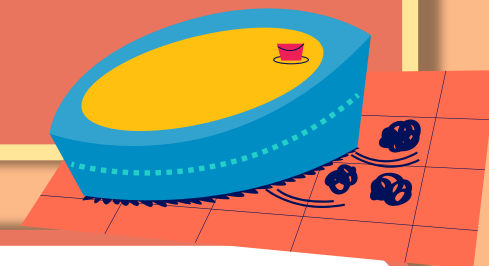




A year later **iRobot**, an American advanced technology company, launched the Roomba. This robovac can change direction when it run into something, detect dirty spots on the floor, and can detect steep drops.

4

# How does the Roomba work?



**It changes direction when it run into something, detect dirty spot on the floor, detect steep drops.**



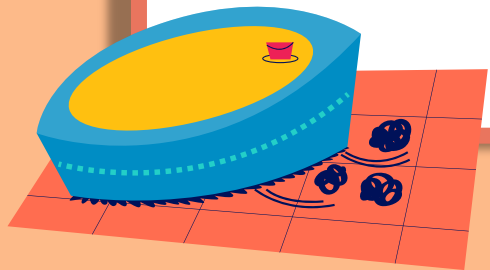
**A year later iRobot, an American advanced technology company, launched the Roomba.**

**This robovac can change direction when it run into something, detect dirty spots on the floor, and can detect steep drops.**

**5**

**How many models of robovac are there?**

**There are over 40 models.**





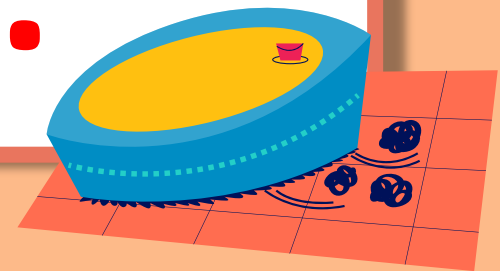
**It became popular very fast and other companies returned to the idea of a robotic vacuum cleaner.**

**Roomba has over 40 models this day.**

**6**

**How does the robovac from Dyson Company work?**

**It uses a vision system with cameras for navigation.**





**Neato Robotics made a XV-11 robotic vacuum which uses laser-vision instead of a traditional ultrasound while Dyson Company tries to create a robotic vacuum that use a vision system with cameras for navigation.**

# My Invention





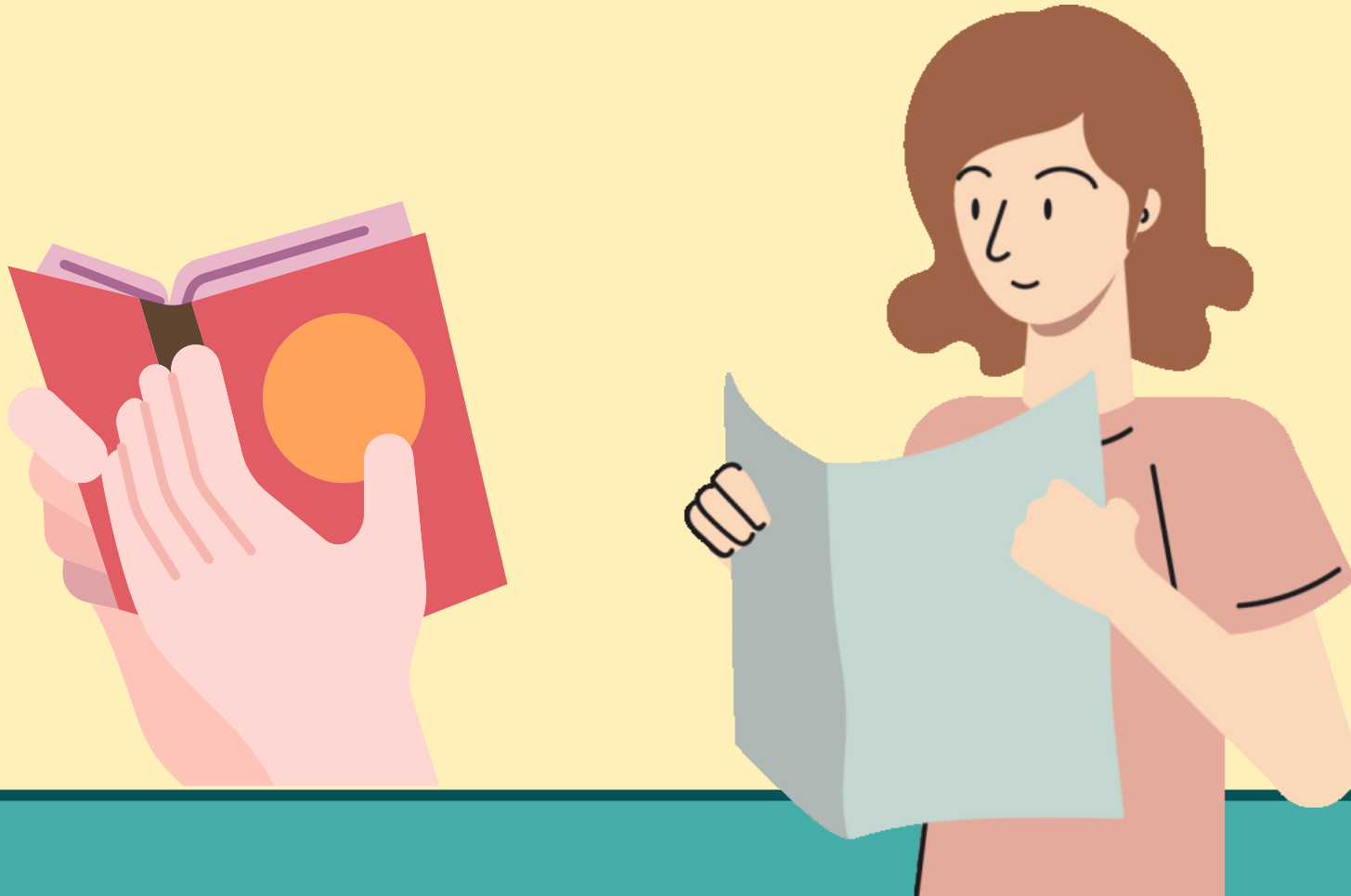
# 1. Get into groups.



## 2. Get paper from the teacher.



### 3. Create the new invention.



# 4. Draw the invention into the paper.





# My Invention

## My Invention

Name of invention.

What is it used for?

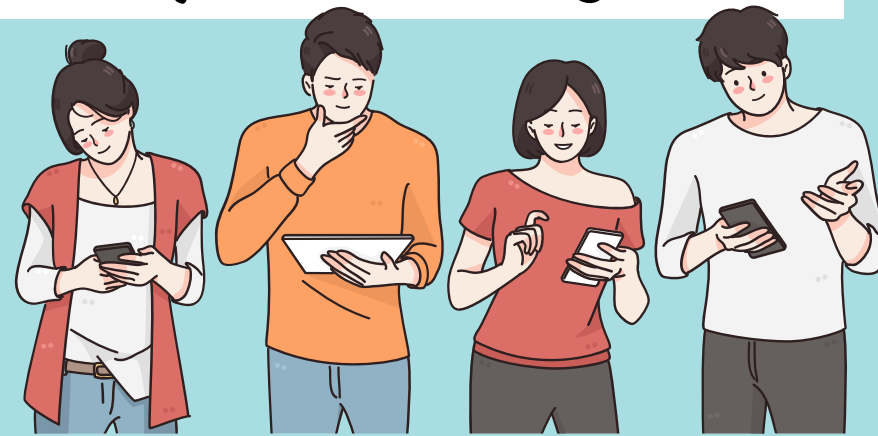
What is it made of ?

How does the invention work?

### **Directions:**

**Design and draw your own invention according to your imagination.**

**Write sentences to describe your invention below your drawing.**



# My Invention

**Name of invention.**

**“ Miki ”**

**What is it used for?**

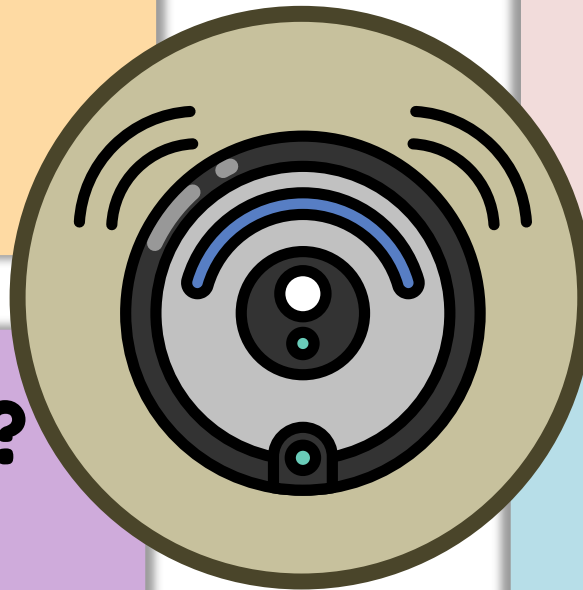
**It is used for cleaning the room.**

**What is it made of ?**

**It is made of plastic.**

**How does the invention work?**

**It uses a vision system with cameras for navigation.**





# Let's Present

**This is my invention.**

**It is called \_\_\_\_\_.**

**It is used for \_\_\_\_\_.**

บทเรียนครั้งต่อไป

# Gadget Revolution

สิ่งที่ต้องเตรียม

บัตรภาพ / คำศัพท์



(สามารถดาวน์โหลดได้ที่ [www.dltv.ac.th](http://www.dltv.ac.th))





**“The role of the teacher is to create the conditions for invention rather than provide ready-made knowledge.”**

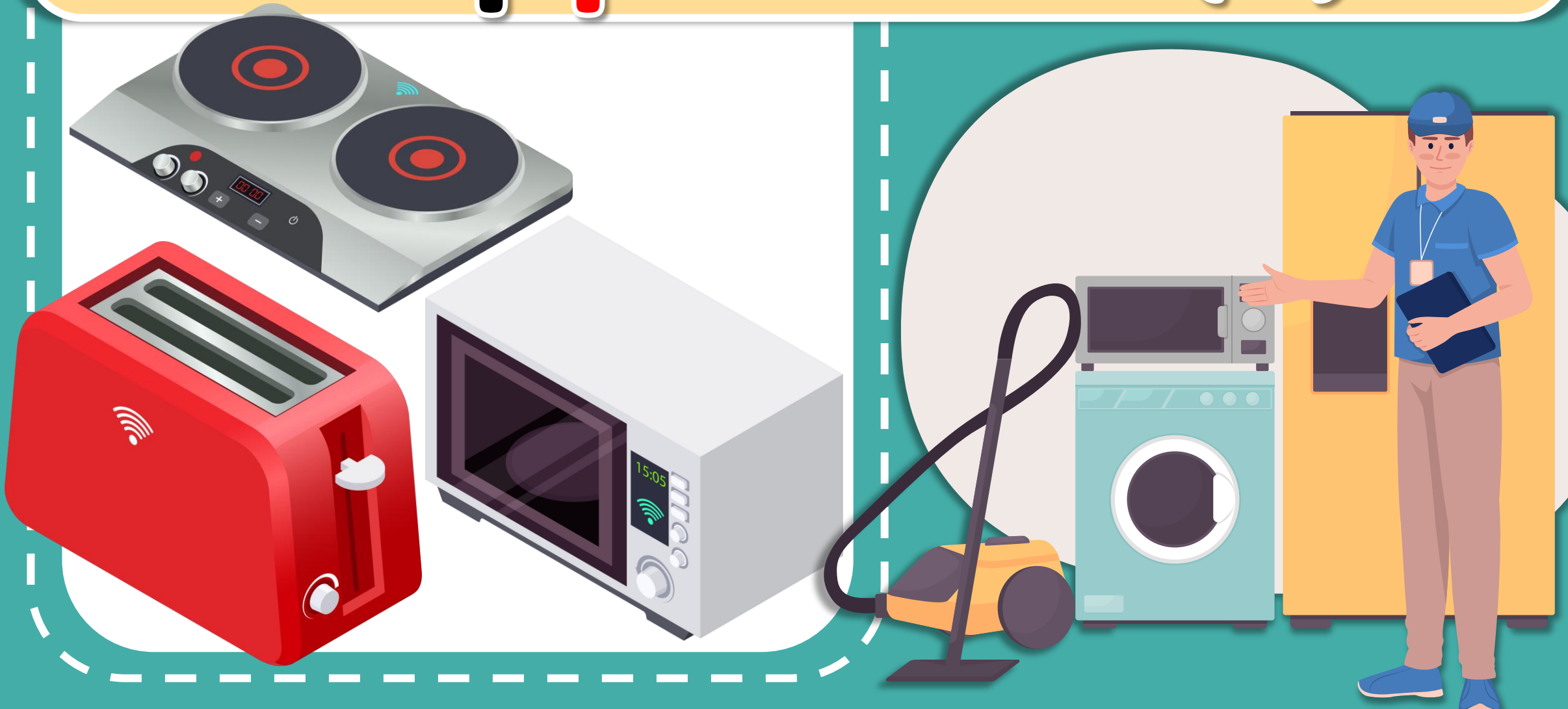
**- Seymour Papert-**





Let's  
Review!

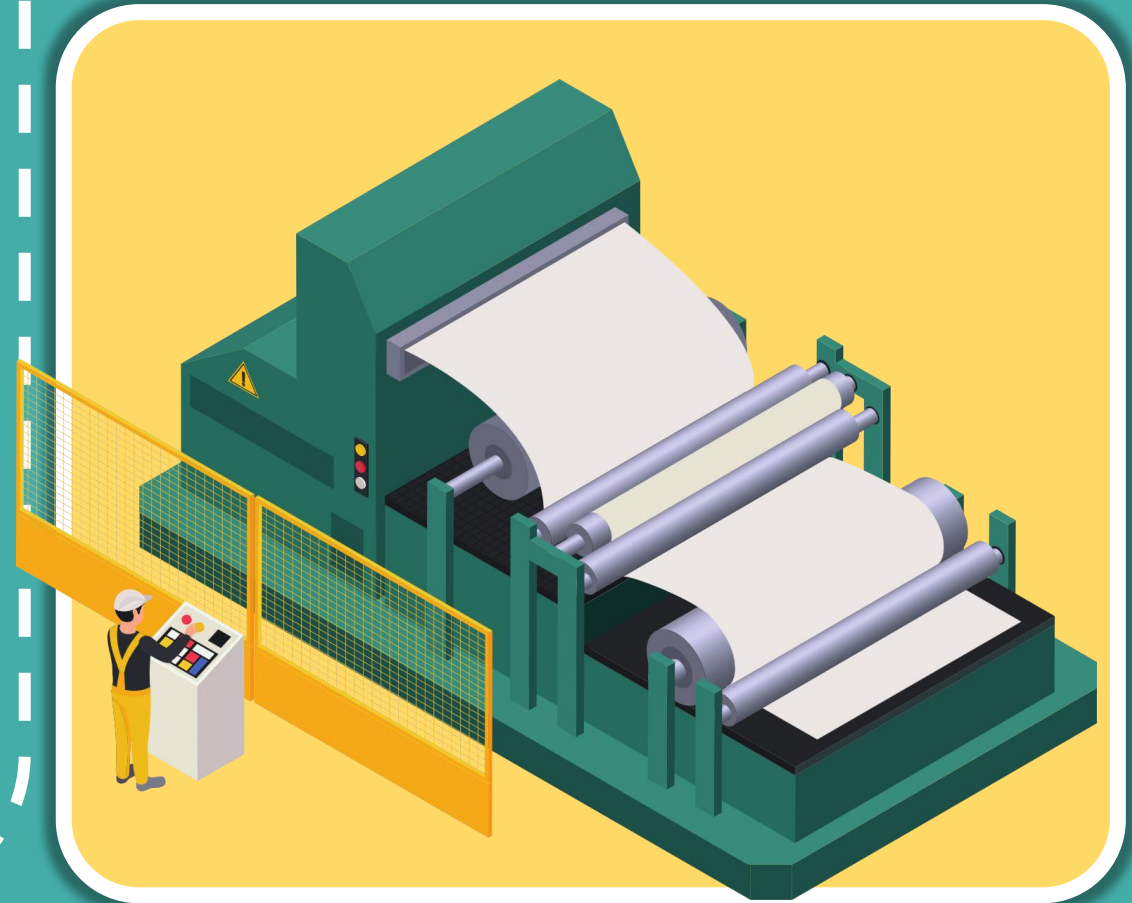
# appliance (n.)



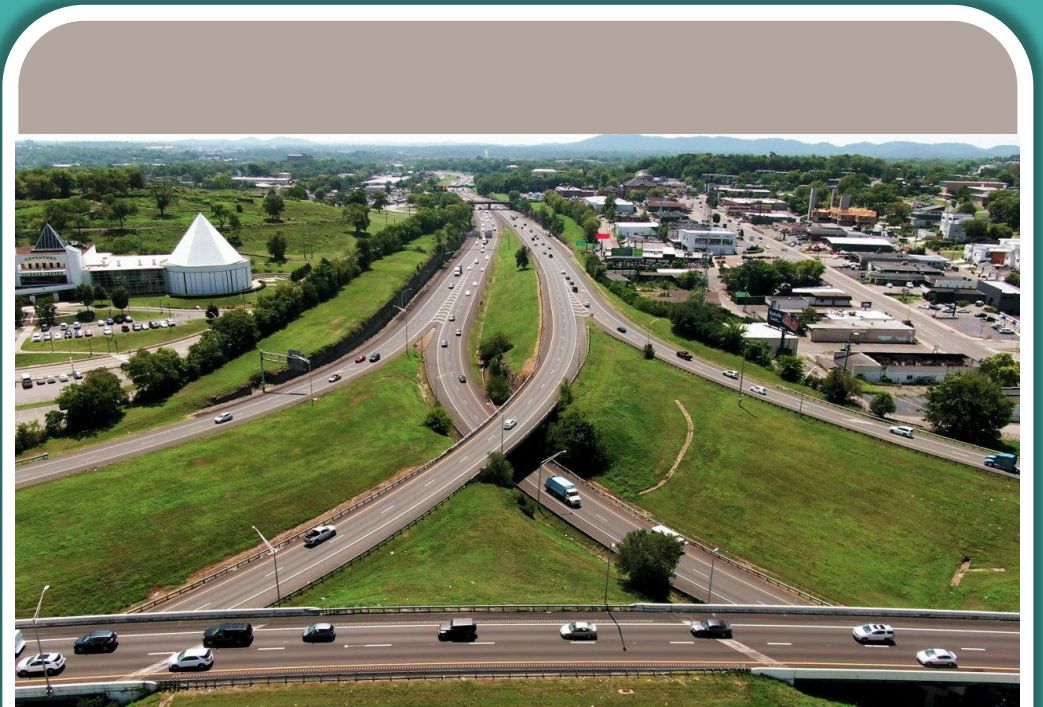
# robotic (n.)



# launch (v.)



# direction (n.)



# detect (v.)



# spot (n.)





# navigation (n.)

