

รายวิชา ภาษาอังกฤษ

รหัสวิชา อ22102

ชั้นมัธยมศึกษาปีที่ 2

Launch Your Invention

ครูผู้สอน ครูสรวรยา อุดรพรหม

ครูศุภณัฐ รักพงษ์



My ideal invention is _____.

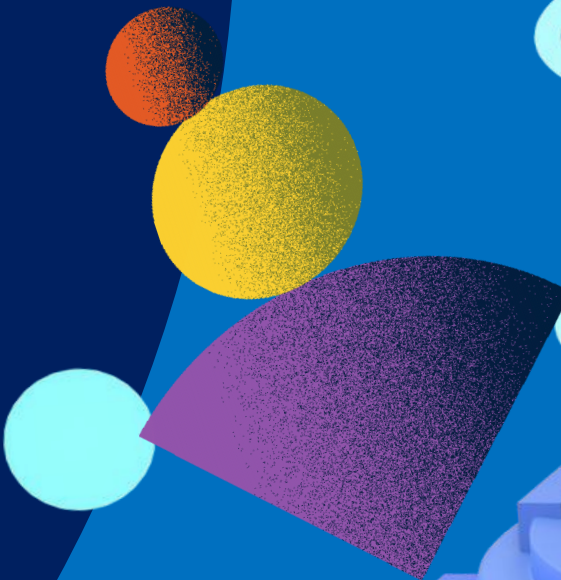
It is made of _____.

It is _____.

It can use for _____.



Launch Your Invention





Great inventions of 21st century, which will change the world





ขอขอบคุณสื่อวีดิทัศน์ประกอบการเรียนรู้อ

สื่อวีดิทัศน์ : Great inventions of 21st century, which will change the world

เผยแพร่โดย Global Creative

เผยแพร่วันที่ 9 มีนาคม 2563

ที่มา <https://www.youtube.com/watch?v=lMTlGqBgdzU>





จุดประสงค์การเรียนรู้

พุดนำเสนอสิ่งประดิษฐ์
ที่ตนเองคิดค้นโดยใช้
โครงสร้างการพุด
ที่กำหนดให้



Vocabulary



Launch (v.)

to begin something





detect (v.)

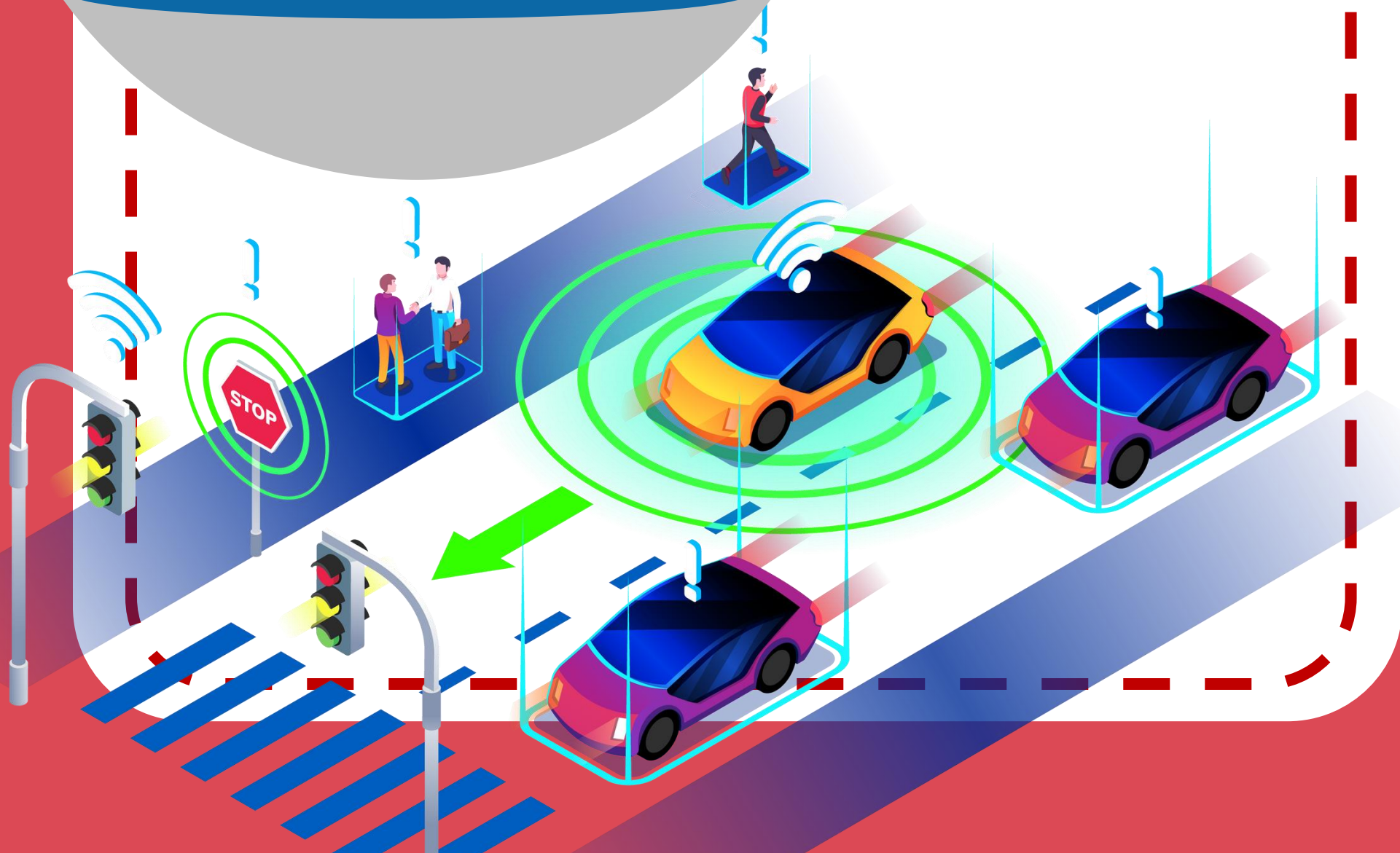


to discover
something



autonomous

(adj.)

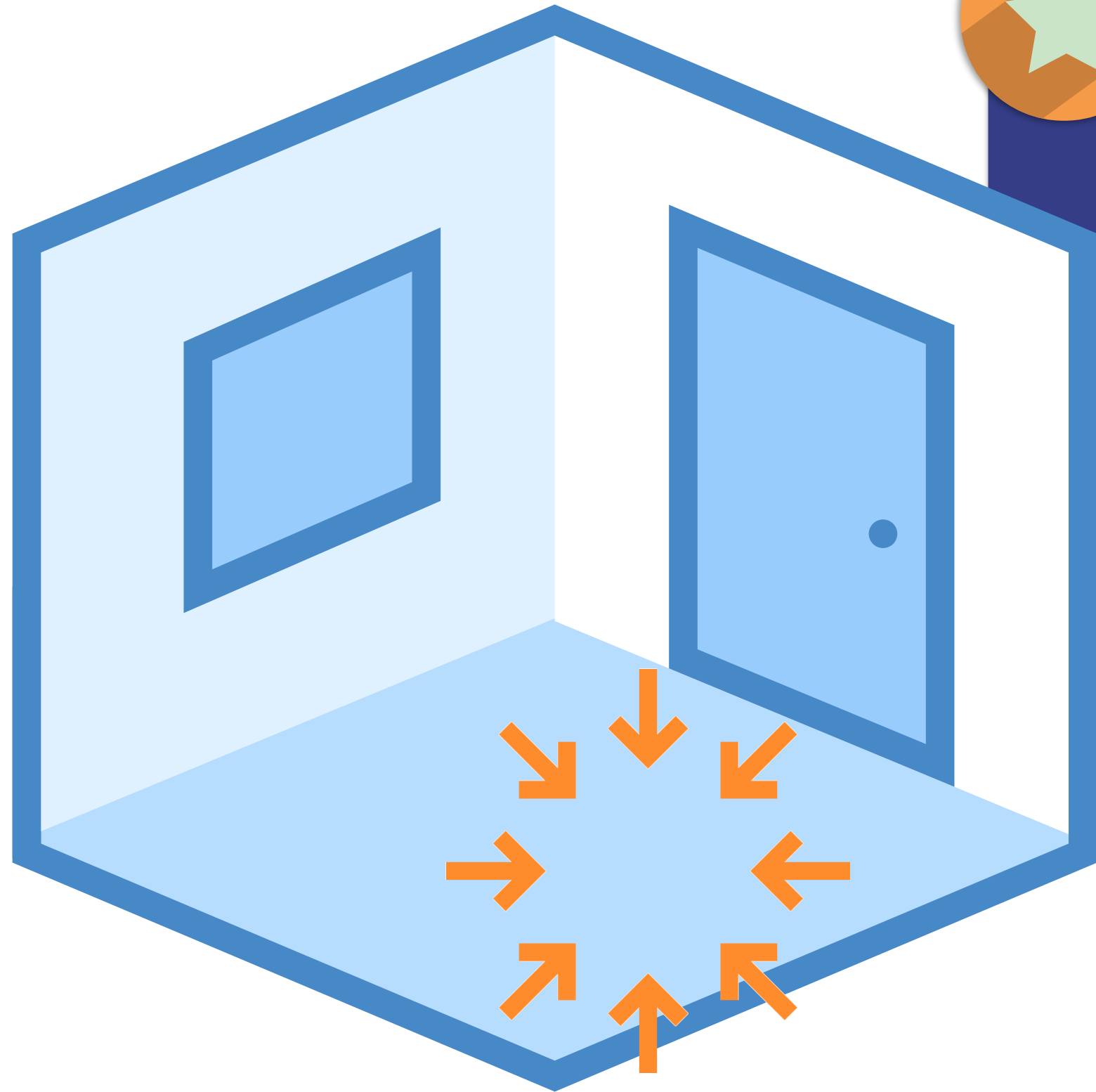


able to operate
without being
controlled directly
by humans



spot (n.)

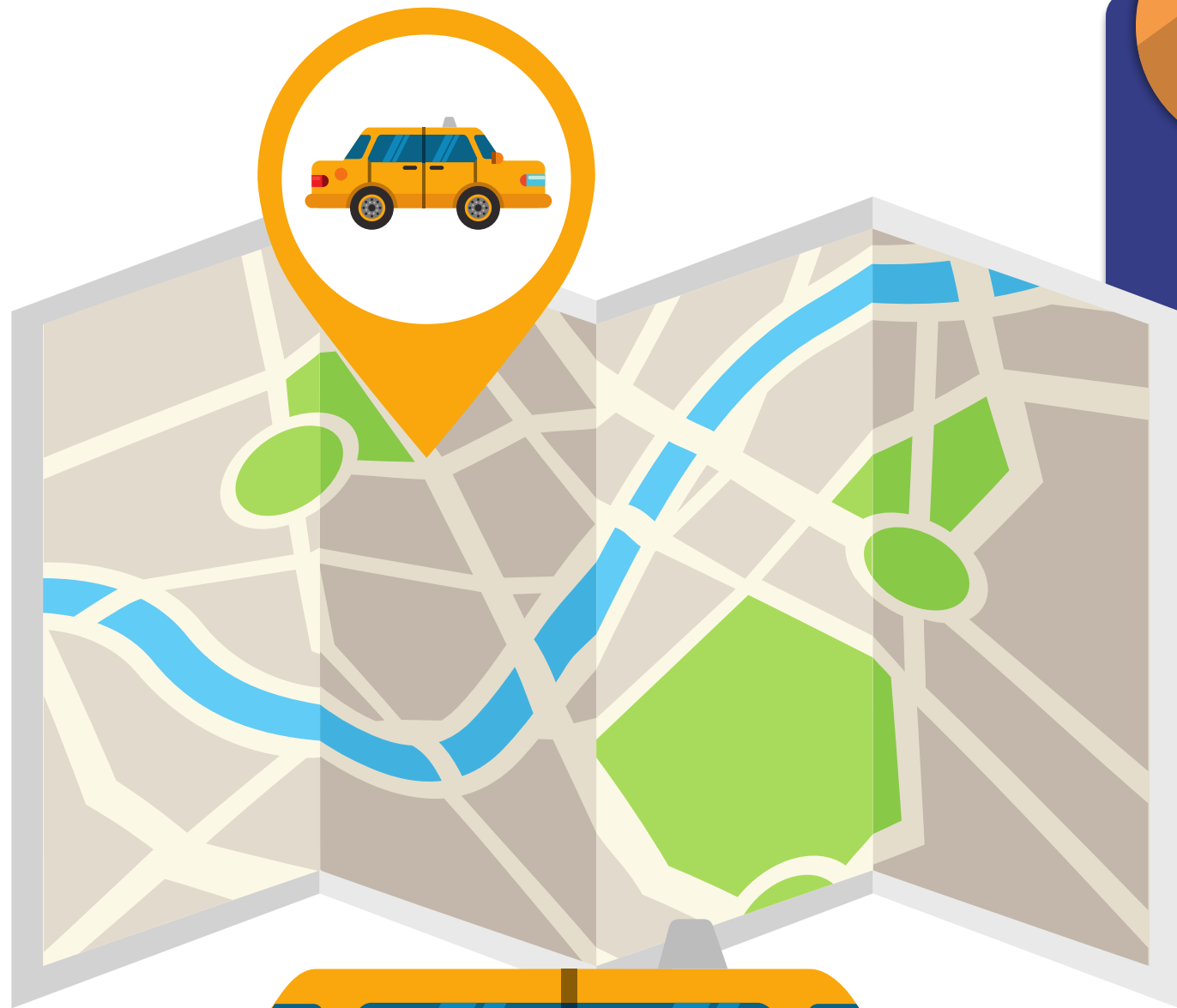
**a particular
place**





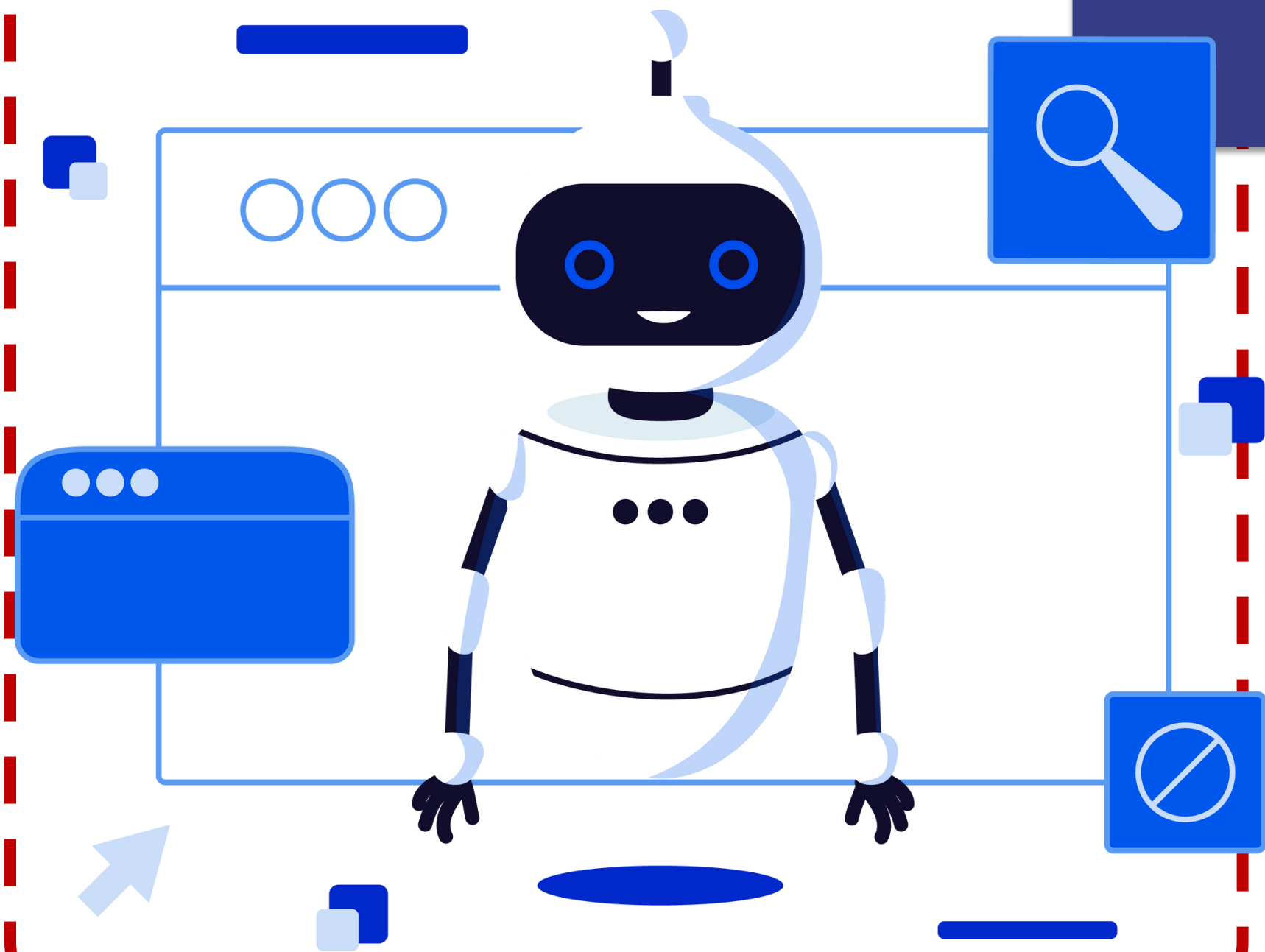
navigation (n.)

the movement of
a ship or an aircraft
along a planned
path





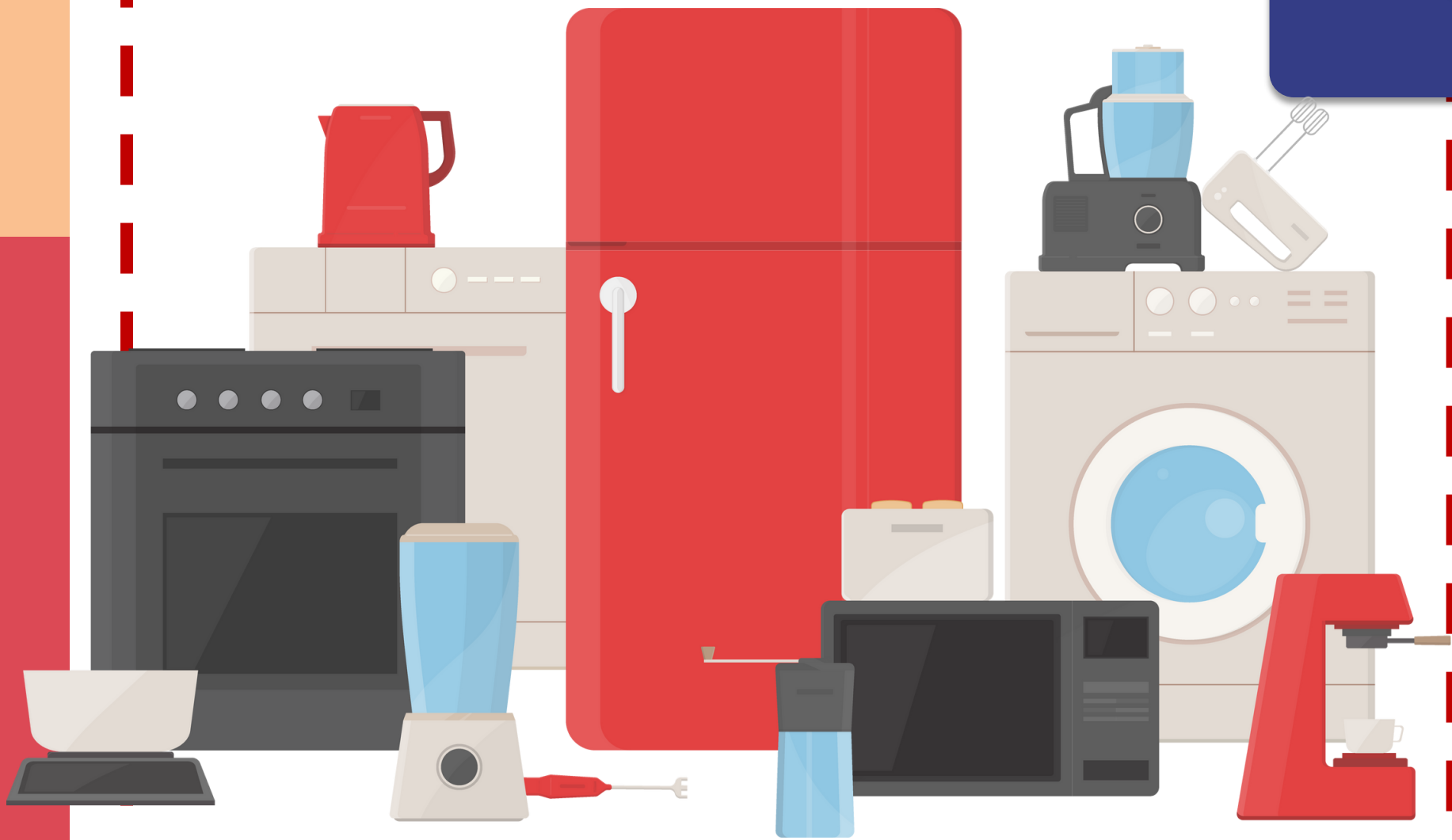
robotic (n.)



like a robot



appliance (n.)



a device, machine,
or piece of
equipment



interaction (v.)

**the act of
communicating
with somebody**



visual perception (v.)



the brain's ability to
receive and act upon
visual stimuli



obstacle (v.)



a situation or event that makes it difficult for you to do or achieve something

Check Your Memory





detect (v.)

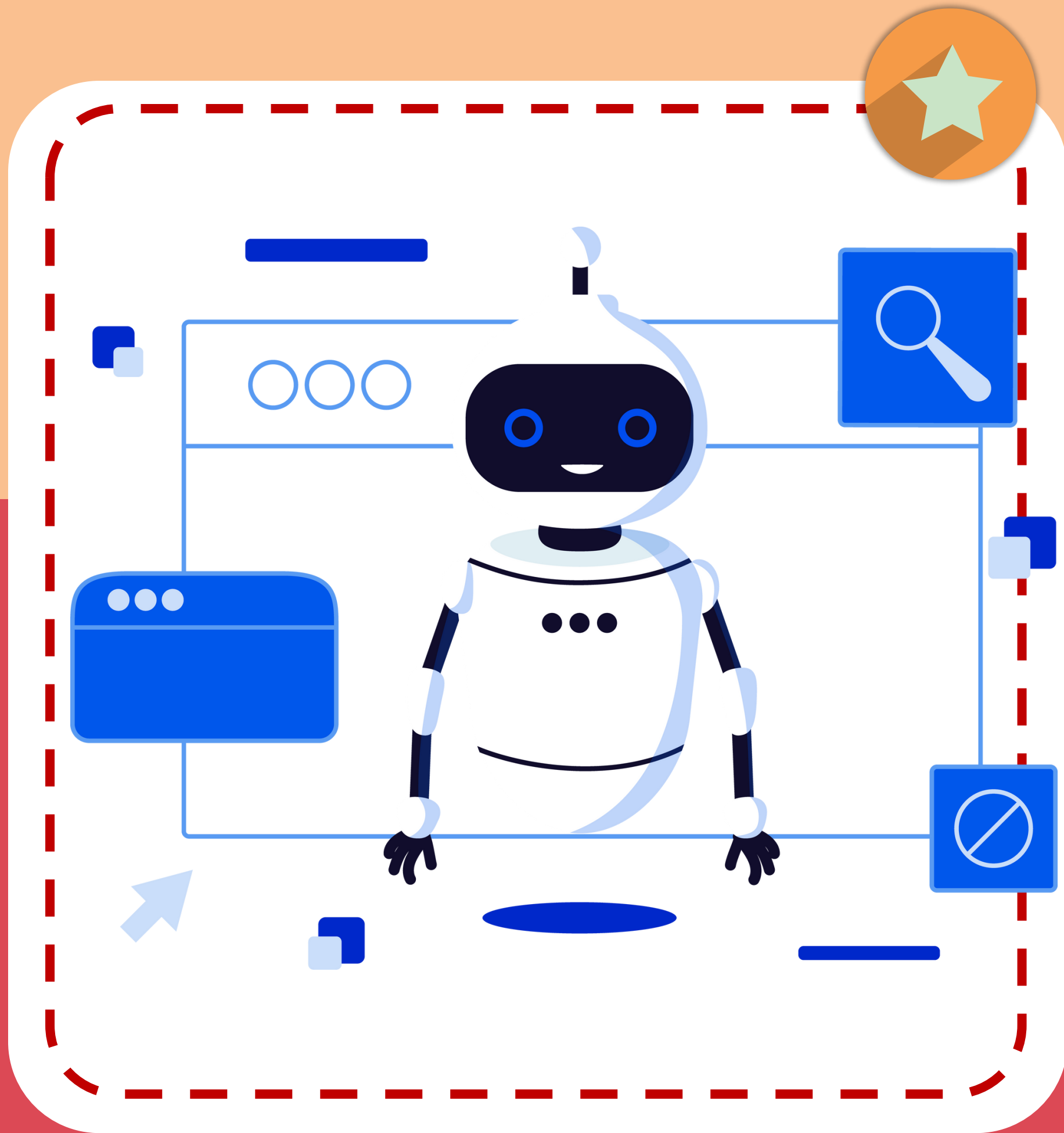
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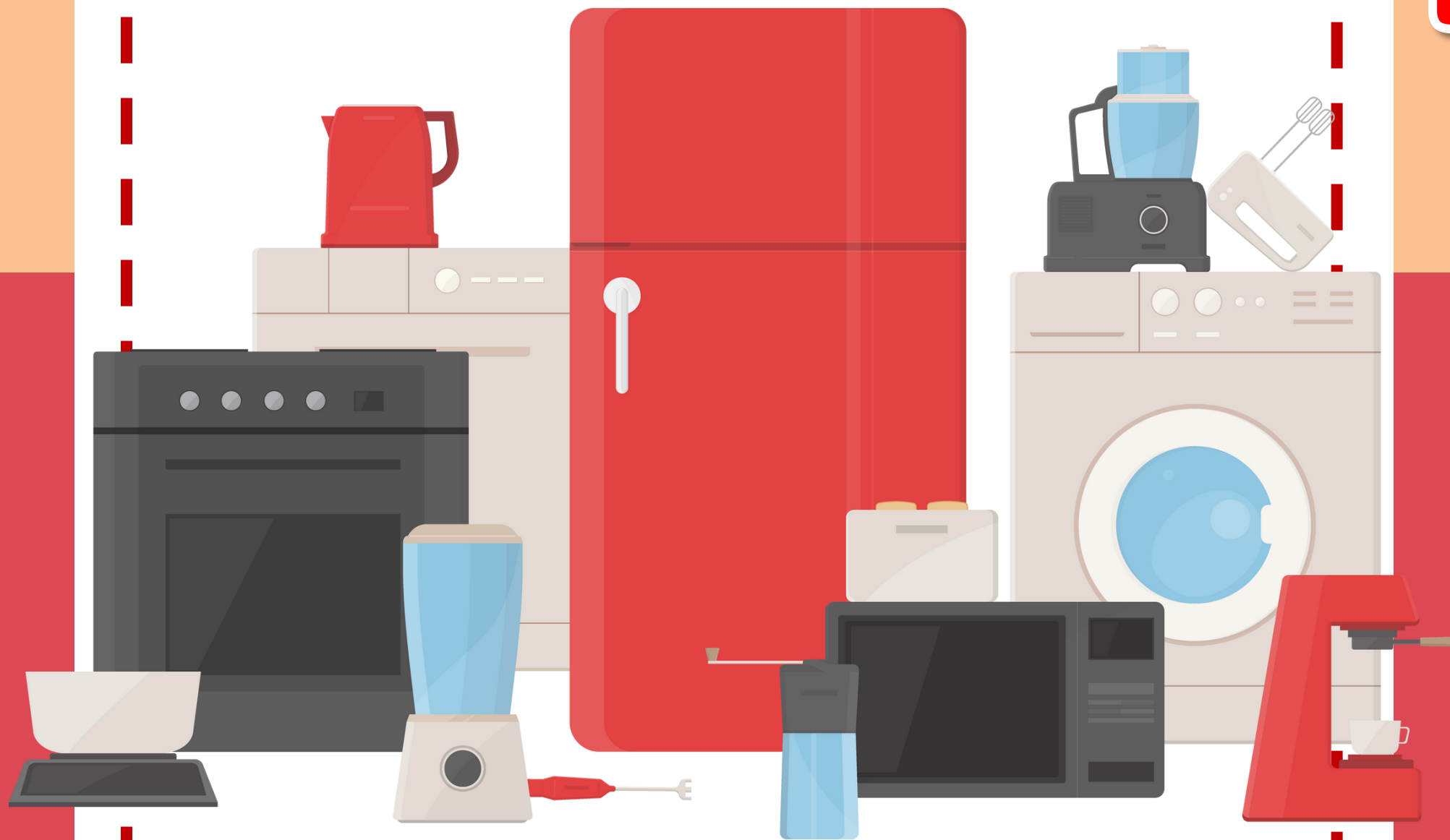


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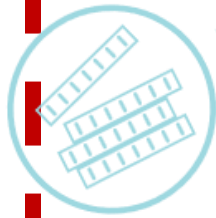


navigation (n.)

**the movement of
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Launch (v.)

to begin something





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a situation or event that makes it difficult for you to do or achieve something





autonomous
(adj.)

able to operate
without being
controlled directly
by humans

Check Your Memory



Worksheet 1

Invention Project

Part 1:

Match the words with the right definition.



navigation	launch	appliance	detect	autonomous
spot	interactions	visual perception	obstacle	robotic



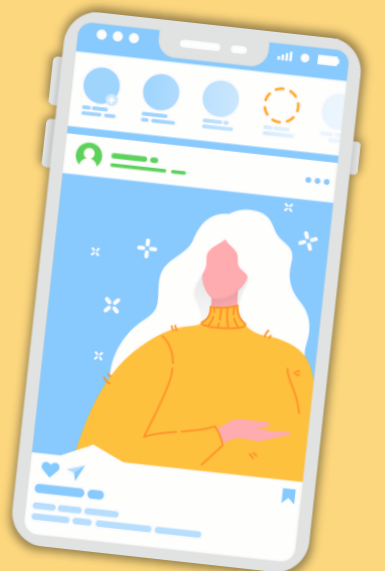
Worksheet 1

Invention Project

Navigation	Launch	Appliance	Detect	Autonomous
Spot	Interactions	Visual perception	Obstacle	Robotic

1. _____ (v.) to discover something, usually using special equipment
2. _____ (n.) a particular place:
3. _____ (adj.) relating to or like a robot
4. _____ (n.) a device, machine, or piece of equipment, esp. an electrical one that is used in the home, such as a refrigerator or washing machine
5. _____ (n.) the act of directing a ship, aircraft, etc. from one place to another, or the science of finding a way from one place to another
6. _____ (v.) to begin something such as a plan or introduce something new such as a product
7. _____ (n.) the brain's ability to receive, interpret, and act upon visual stimuli.
8. _____ (n.) an occasion when two or more people or things communicate with or react to each other
9. _____ (n.) something that blocks you so that movement, going forward, or action is prevented or made more difficult
10. _____ (adj.) able to operate without being controlled directly by humans

Part 1:
Match the words
with the right
definition.



1.

**to discover something,
usually using special
equipment**



detect (n.)



2.

a particular place



spot (n.)



3.

relating to or like
a robot



robotic (adj.)



4.

a device, machine, or piece of equipment, esp. an electrical one that is used in the home, such as a refrigerator or washing machine



appliance (n.)



5.

the act of directing a ship, aircraft, etc. from one place to another, or the science of finding a way from one place to another

navigation (n.)



6.

**to begin something such as a plan
or introduce something new such as
a product**

launch (v.)



7.

**the brain's ability to receive,
interpret, and act upon visual
stimuli**


 **visual perception (n.)**

8.

an occasion when two or more people or things communicate with or react to each other

interaction (n.)



9.

**something that blocks you so
that movement, going forward,
or action is prevented or made
more difficult**



obstacle (n.)



10.

able to operate without being controlled directly by humans

 **autonomous (adj.)**

A Blind Pilot



A Blind Pilot



Independent travel is a major challenge for blind people as they sometimes need to interact with a landmark object such as a door when entering a room, a button when using an elevator, or detect a chair when arriving in a lounge. Interactions with such objects require significant effort and time for blind people because of their lack of visual perception.

Inspired by these robot-based systems, we propose a local navigation robot, BlindPilot, which can lead blind users directly to landmark objects. The system works simply but unbelievably helpful in many ways.

A Blind Pilot



Firstly, only follow the movement of BlindPilot, blind users can reach a target object faster with less effort compared to previous local navigation systems providing sound/speech feedback.

Secondly, this appliance can be launched anywhere and used in the same manner as guide dogs.

And finally, as robotic systems have been proposed in the domain of global navigation systems and obstacle avoidance systems. Users can walk on any spot by following the movement of the autonomous robots. We can resolve all limitations.

A Blind Pilot



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In the beginning

First

Firstly

Once

Once upon a time

One day

To begin with



In the middle

After that

Later

Next

The moment

Then

When



In the end

In the end

Finally

Lastly

At last

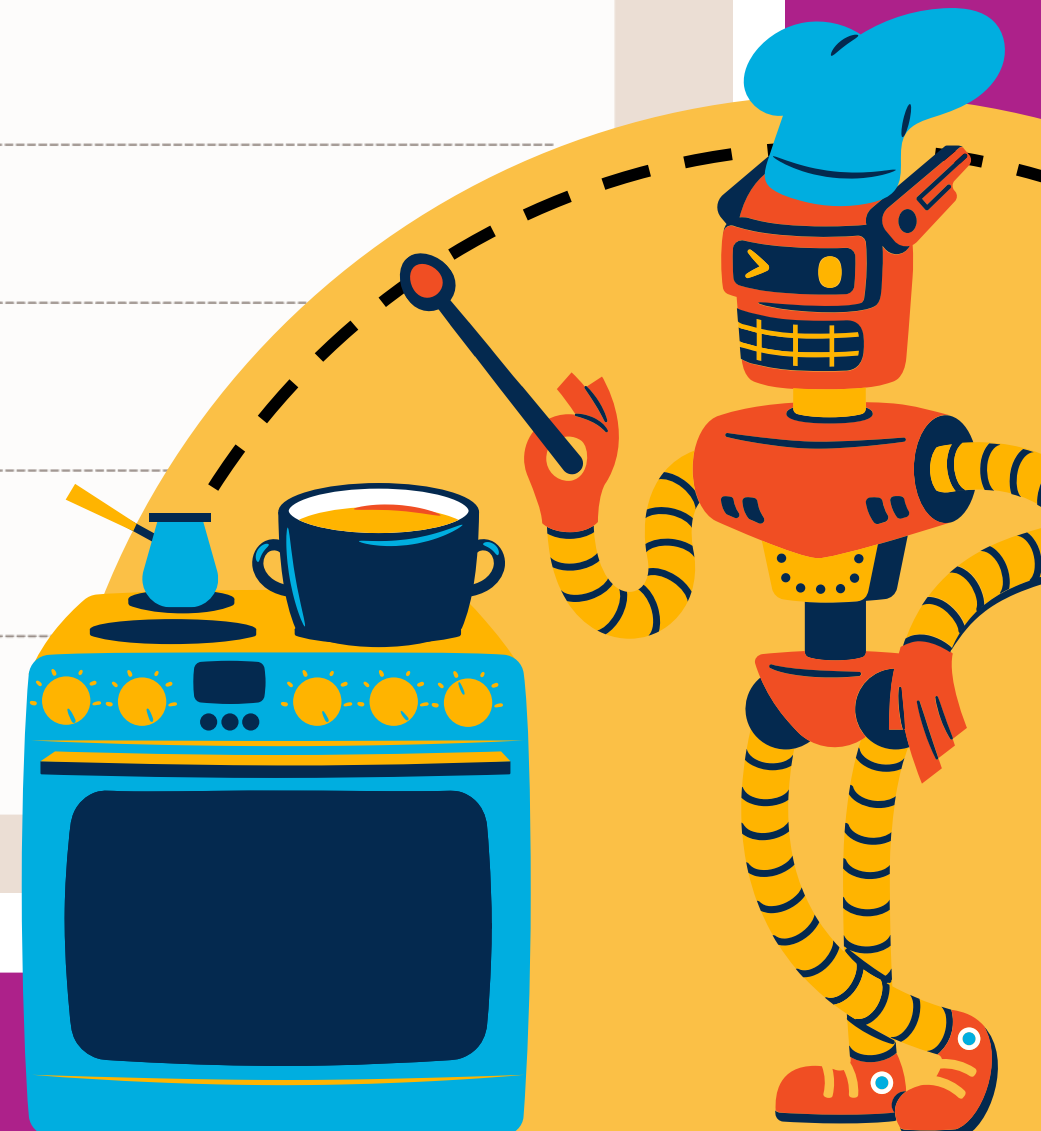


Part 2:

Write the explanation of your group's invention. Using the sequence words.



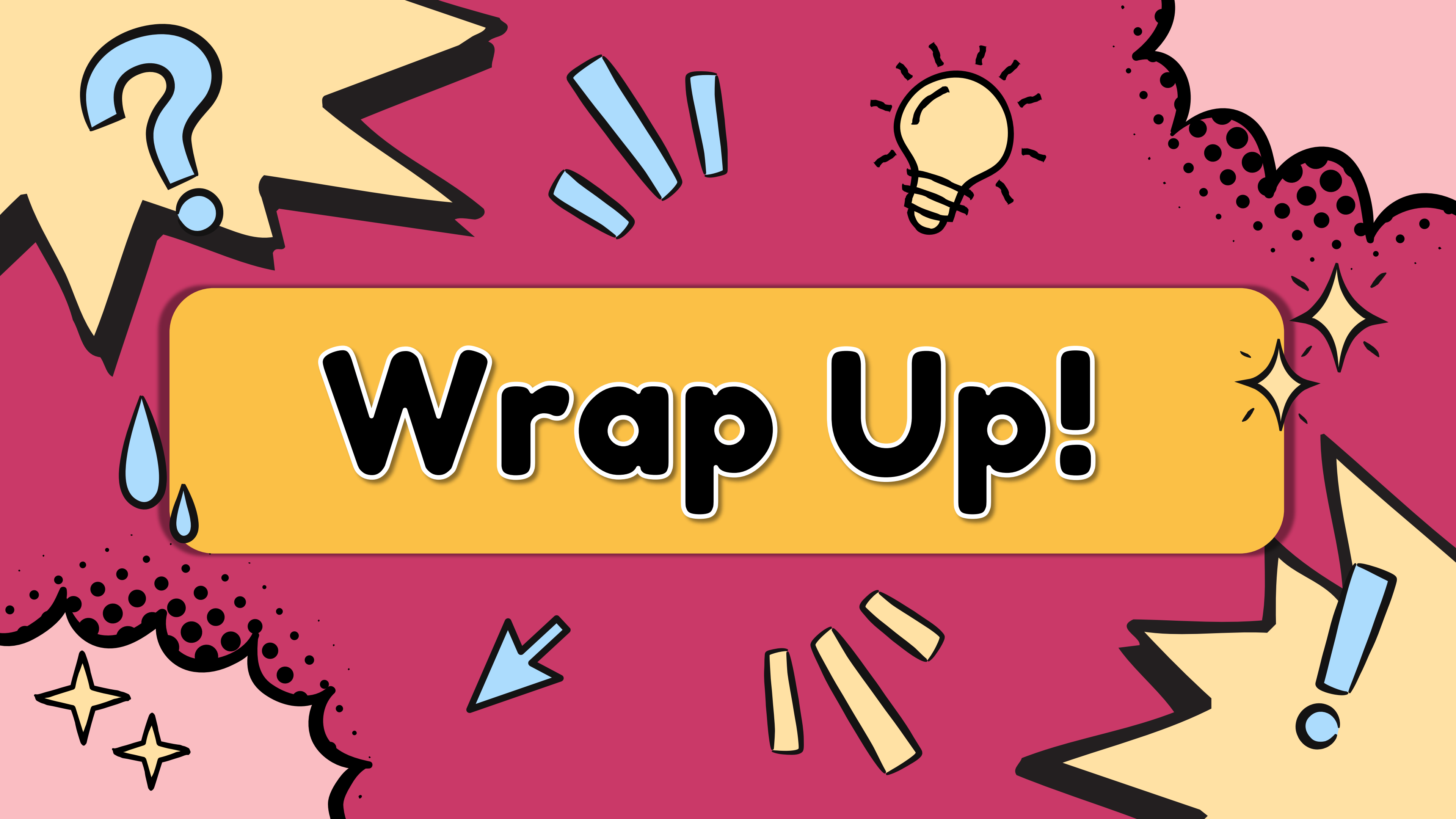
OUR INVENTION IS



Presentation



Wrap Up!



Sequence connectors

link opinions from
one sentence to the
next and to give
paragraphs
coherence

organize the events
of the beginning,
middle and end of
a story

**The bad news is time flies.
The good news is you're the pilot.**

**- Michael Altshuler -
A popular motivational speaker**

