

Computer Parts - External

—• What can we see outside a computer? —•



What External Parts Do You Know?

Look at the picture. Name as many parts as you can.



External Parts Help Us Use the Computer

Input • Output • Connection • Protection



Input

Sends information into the computer.



Output

Shows or plays information from the computer.



Connection

Helps devices communicate.



Protection

Keeps the computer safe and working well.



Monitor

Showing Information from the Computer



Displays text, images, videos, and graphics



Shows what the computer is doing



Receives visual signals from the computer



Computer / GPU



Monitor



User Sees Image



Is a monitor an input device or an output device?

Old Monitor: CRT

Big, Heavy, Older Technology

CRT Monitor



Thick and heavy



Takes more space



Older technology



Modern Flat Monitor



Thin and light



Saves space



Modern technology



Thick and heavy



Takes more space



Older display technology



Mostly replaced by flat monitors



Have you ever seen one of these before?

Monitor Connectors

How the Computer Connects to the Screen



HDMI

Common for monitors, TVs, and projectors.



VGA

Older monitor connection.



DisplayPort

Modern computer monitor connection.



USB-C

Used on some newer laptops and screens.



Which cable do we use in our classroom?

Modern Displays

Screens Are Everywhere



A display shows information from a computer or digital device.



Desktop Monitor



Laptop Screen



Tablet Screen



Projector



Interactive Board

Keyboard

Typing and Giving Commands



Inputs letters,
numbers, and symbols



Helps give commands
to the computer



Most English keyboards
use the QWERTY layout



Which key do you use most often when typing?



Keyboard Layout: QWERTY

• The Most Common Keyboard Layout •



1



QWERTY is named after the first six letters on the top row.

2



Used on many English keyboards.

3



Many keyboards in Thailand can type both Thai and English.

Example of keys that can type both Thai and English:



One key, two languages! ✨



Can you find Q-W-E-R-T-Y on a keyboard?





Keyboard Layouts Around the World

• Different Countries Use Different Keyboards •



QWERTY (English)



Most common English keyboard layout



English / International

Thai Keyboard Layout



Used for typing in Thai language



Thailand

AZERTY (French)



Used in France and some French-speaking countries



France & French-speaking countries

QWERTZ (Central Europe)



Used in countries such as Germany



Central Europe (e.g., Germany)



Can your keyboard type both Thai and English?



Types of Keyboards

— • Different Designs for Different Uses • —



**Full-size
Keyboard**

Includes number pad



**Laptop
Keyboard**

Built into a laptop



**Compact
Keyboard**

Smaller and easy
to carry



**Gaming
Keyboard**

Often has lighting
effects

Mouse

Pointing, Clicking, and Scrolling



Moves the pointer



Left click selects



Right click opens options



Scroll wheel moves
up and down



What is the difference between left click and right click?

Mouse: Old vs New

Ball Mouse and Optical Mouse

Old Ball Mouse



Uses a physical ball



Can get dirty easily



Less common today

Optical Mouse



Uses light or sensor



Smoother movement



Common today



Why do old ball mice stop working well?

Keyboard and Mouse Connections

Wired and Wireless Connections



USB

Common wired connection.



Wireless USB Receiver

Small receiver plugged into USB port.



Bluetooth

Wireless connection without a USB receiver.



PS/2

Older keyboard and mouse connection (legacy use only).



Which connection does your mouse use?

Sound Devices

Speaker = Output • Microphone = Input



Output device



Plays sound
from the computer



Used for music,
videos, games, and alerts

VS



Input device



Records voice or sound



Used for calls,
videos, and online classes



Which one sends sound into the computer? Which one sends sound out?

Other External Devices

More Devices We Can Connect



Input Devices

Send information into the computer



Camera



Scanner



Gamepad



Output Devices

Show or play information from the computer



Printer



Projector



Speakers



Storage / Connection Devices

Store data or connect systems



Flash Drive



External Drive



Router



Protection Devices

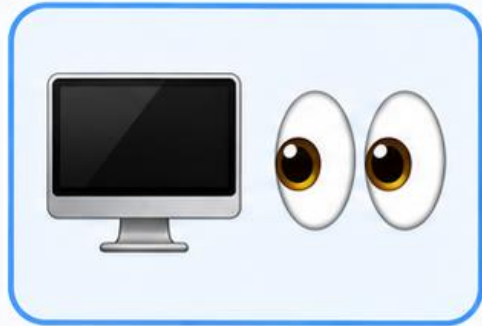
Protects the computer from power loss



UPS
(Uninterruptible Power Supply)

Guess the Device

Use the Emojis as Clues



Input, Output, or Both?

Classify the Devices

Input

Output

Both / Other



Keyboard



Mouse



Monitor



Speaker



Microphone



Printer



Webcam



Gamepad



Router



Flash Drive



What Device Am I?

Guess the External Part

1. I show pictures and videos from the computer.

2. I help you type letters and numbers.

3. I move the pointer on the screen.

4. I play sound from the computer.

5. I record your voice.

6. I print documents on paper.

7. I help connect to the internet.

8. I store files and can be carried around.



Speaker



Mouse



Microphone



Printer



Monitor



Keyboard



Router



Flash Drive



Any questions?

Quick review



- 1 Which external part displays images?**
- 2 Which external part lets you type?**
- 3 Which external part controls the pointer?**
- 4 Which external part records sound?**
- 5 Which device helps connect to the internet?**



The End

