

Year 7 ICT Worksheet

Computer Systems, Memory, Hardware and Software

Name: _____

Class: _____

Date: _____

Learning Objectives

By the end of this worksheet, you should be able to:

- Explain what a computer system is.
 - Identify different types of hardware.
 - Explain the difference between hardware and software.
 - Identify common input, output and storage devices.
 - Explain the purpose of RAM and ROM.
 - Understand the difference between primary and secondary storage.
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Part A – Computer Systems

1. What is a computer system?

Complete the sentence:

A computer system is made up of _____ and _____ that work together to process data and produce information.

2. Match the terms to their meanings.

Term	Meaning
1. Input	A. Information produced by a computer
2. Processing	B. Data entered into a computer
3. Output	C. Changing data into useful information
4. Storage	D. Keeping data and information for later use

Answers:

1. _____
 2. _____
 3. _____
 4. _____
-

Part B – Hardware

3. What is hardware?

Write a definition of **hardware**.

4. Identify the hardware

Circle the items that are **hardware**:

Keyboard | Microsoft Word | Monitor | Mouse | Windows | Printer | RAM | Google Chrome

5. Classify the devices

Put each device into the correct category.

Keyboard, Monitor, Mouse, Printer, Microphone, Speakers, Scanner, Webcam

Input Devices Output Devices

Part C – Input and Output

6. Choose the correct answer.

a. Which device is mainly used to enter text?

- A. Monitor
- B. Keyboard
- C. Speaker
- D. Printer

Answer: _____

b. Which device displays information on a screen?

- A. Mouse
- B. Keyboard
- C. Monitor
- D. Microphone

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Answer: _____

c. Which device is used to produce sound?

- A. Scanner
- B. Speakers
- C. Keyboard
- D. Webcam

Answer: _____

d. Which device can be used to capture a person's voice?

- A. Microphone
- B. Printer
- C. Monitor
- D. Projector

Answer: _____

Part D – Memory

7. What is computer memory?

Explain what computer memory is used for.

8. RAM and ROM

Complete the table.

Feature	RAM	ROM
Full name		
Can normally be changed by the user?		
Is it volatile?		
Main purpose		

9. True or False

Write **True** or **False**.

- a. RAM is volatile memory. _____
- b. ROM loses its contents when the computer is switched off. _____

- c. RAM stores data and programs currently being used. _____
 - d. ROM can contain instructions needed to start a computer. _____
 - e. RAM is usually faster to access than secondary storage. _____
-

Part E – Storage

10. Primary or secondary storage?

Write **Primary** or **Secondary**.

- a. RAM: _____
- b. ROM: _____
- c. Hard disk drive: _____
- d. SSD: _____
- e. USB flash drive: _____

11. Which storage device?

Choose the best answer.

a. Which device is commonly used to carry files from one computer to another?

- A. RAM
- B. USB flash drive
- C. CPU
- D. Monitor

Answer: _____

b. Which device is used for long-term storage of files?

- A. SSD
- B. RAM
- C. Cache
- D. CPU

Answer: _____

Part F – Software

12. What is software?

Write a definition of **software**.

13. System software or application software?

Write **System Software** or **Application Software**.

- a. Windows: _____
- b. Microsoft Word: _____
- c. Android: _____
- d. Google Chrome: _____
- e. Linux: _____
- f. Microsoft PowerPoint: _____

14. Match the software to its purpose.

Software	Purpose
1. Word processor	A. Browse websites
2. Web browser	B. Create presentations
3. Presentation software	C. Create and edit documents
4. Media player	D. Play audio and video

Answers:

Part G – Hardware or Software?

15. Write **H** for Hardware and **S** for Software.

Item	H or S?
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Keyboard	
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Windows	
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Mouse	
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Microsoft Word	
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Monitor	
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Google Chrome	
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Printer	
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PowerPoint	
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RAM	
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Speakers	
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Part H – Challenge Questions

16. A student is typing a homework assignment.

Name: _____

a. One input device: _____

b. One type of software: _____

c. One output device: _____

d. One type of memory: _____

17. Explain the difference between hardware and software.

18. Why is RAM important when a computer is running programs?

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19. A computer has very little RAM. What might happen when the user opens many programs at the same time?

20. Challenge

Explain how **hardware, software and memory** work together when you open a document and edit it.
