

**Subject:** Computer and Information Technology

**Topic:** Roles of Hardware and Software

**Level:** S.4

### **Learning objectives**

#### **1. Content**

Students should be able to describe how the computer performs different tasks.

#### **2. Language**

Students should be able to ask and answer questions about how the computer performs different tasks using the following conversation pattern:

Student A: *What hardware and software do we need if we want to* \_\_\_\_\_?

Student B: *We need* \_\_\_\_\_ (hardware) *and* \_\_\_\_\_ (software).

Student A: *How do these components work to perform the task?*

Student B: *The* \_\_\_\_\_ (software) *instructs the* \_\_\_\_\_ (hardware) *to* \_\_\_\_\_ (action).

**S4 Computer and Information Technology**  
**Roles of Hardware and Software**  
**Worksheet 1**

Name: \_\_\_\_\_ Class: \_\_\_\_\_ No.: \_\_\_\_\_ Date: \_\_\_\_\_



**Instruction**

1. This is a speaking activity. Work in pairs.
2. Use the following patterns to ask questions about how the computer performs different tasks.
3. Take turns to be Student A and Student B.

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Student A: What hardware and software do we need if we want to \_\_\_\_\_?

Student B: We need \_\_\_\_\_ (hardware) and \_\_\_\_\_ (software).

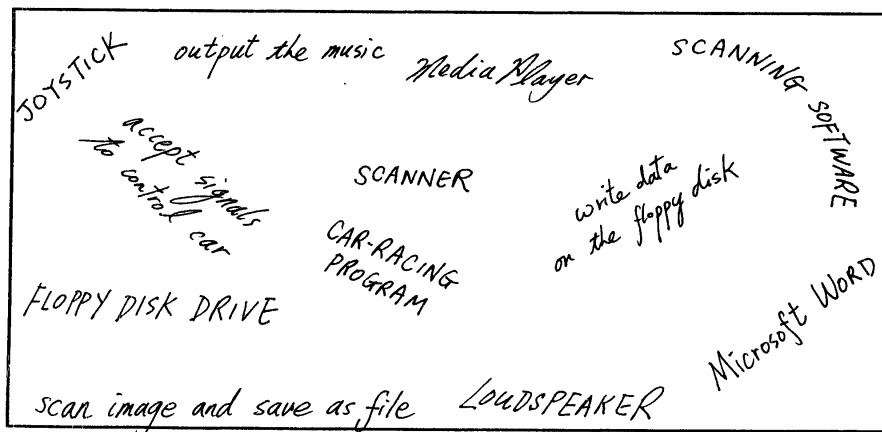
Student A: How do these components work to perform the task?

Student B: The \_\_\_\_\_ (software) instructs the \_\_\_\_\_ (hardware) to \_\_\_\_\_ (action).

Try the following computer tasks (You can try something different when you finish these):

1. scan a photo
2. listen to an MP3 song
3. save a Word document to a floppy disk
4. play a car-racing game

Useful vocabulary:



**Subject:** Computer and Information Technology

**Topic:** RAM and ROM

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**Learning objectives**

1. Content

Students should be able to state the similarities and differences between RAM and ROM.

2. Language

Students should be able to

## S4 Computer and Information Technology

### RAM and ROM

#### Worksheet 1

Name: \_\_\_\_\_ Class: \_\_\_\_\_ No.: \_\_\_\_\_ Date: \_\_\_\_\_



#### Reading

Read the paragraphs on RAM and ROM in your textbook (Chapter 5, pp.13-14). Then complete the following two tables.

Table 1: Comparison between RAM and ROM

	RAM	ROM
Full name		
Mode of access		<ul style="list-style-type: none"><li>- data is read-only</li><li>-</li></ul>
Permanence and why	<ul style="list-style-type: none"><li>- volatile</li><li>- data is supported by electricity</li></ul>	
Usage	<ul style="list-style-type: none"><li>- to store user instructions and data</li><li>-</li></ul>	
2 examples		

Table 2: Comparison between SRAM and DRAM

	SRAM	DRAM
Full name		
Working mechanism		<ul style="list-style-type: none"><li>- constant power to refresh the stored data</li></ul>
speed	<ul style="list-style-type: none"><li>- faster</li><li>- used for cache memory</li></ul>	
cost		



## Writing

With reference to Table 1, write a paragraph to list the three differences between the two types of memory.

1. Use the following sentence pattern to describe a difference.

RAM is \_\_\_\_\_, but ROM is \_\_\_\_\_.

2. Use the following frame in your writing.

RAM and ROM are different in \_\_\_\_\_ ways.

Firstly, \_\_\_\_\_

Secondly, \_\_\_\_\_

Lastly, \_\_\_\_\_

3. Write your paragraph below:

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4. Now you can write a similar paragraph to describe the differences between SRAM and DRAM below.

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