

# Introduction to Information Technology in Business

## Computer Hardware and Software Worksheet

### Instructions:

Name \_\_\_\_\_

Use the web site Computer System (Gr. 9) found on Mr. Murphy's web site to answer the questions below. Note that this site is found by typing the following URL: [www.alcde.on.ca/~murphyp](http://www.alcde.on.ca/~murphyp). It can also be found by using the HCTODAY site and navigating through the Academic/Teacher Pages menu.

### Introduction

What is **hardware**? \_\_\_\_\_

\_\_\_\_\_

What is **software**? \_\_\_\_\_

\_\_\_\_\_

List the four hardware components of every computer system.

1. \_\_\_\_\_ 2. \_\_\_\_\_

3. \_\_\_\_\_ 4. \_\_\_\_\_

Draw a quick (but neat) diagram showing how data flows between these four components

Define the term **peripheral** \_\_\_\_\_

\_\_\_\_\_

Briefly describe the two types of computer systems used by most users.

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

### CPU

The three words in the acronym **CPU** are:

C \_\_\_\_\_ P \_\_\_\_\_ U \_\_\_\_\_

What is the function of the CPU? \_\_\_\_\_

\_\_\_\_\_

If you take off the protective case, what would you see inside the CPU? \_\_\_\_\_

\_\_\_\_\_

What is a **bus**? \_\_\_\_\_

What is the function of the bus? \_\_\_\_\_

What is a **motherboard**? \_\_\_\_\_

What is a **microprocessor**? \_\_\_\_\_

What are the four functions of the microprocessor?

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

How are microprocessors rated? \_\_\_\_\_

What is the most recent "family" of microprocessors? \_\_\_\_\_

What is the speed of the most recent microprocessors? \_\_\_\_\_

What is the purpose of main memory? \_\_\_\_\_

The three words in the acronym **ROM** are:

R \_\_\_\_\_ O \_\_\_\_\_ M \_\_\_\_\_

ROM stores \_\_\_\_\_

The three words in the acronym **RAM** are:

R \_\_\_\_\_ A \_\_\_\_\_ M \_\_\_\_\_

RAM stores \_\_\_\_\_

Why would a computer user want as much RAM as possible in their computer system? \_\_\_\_\_

Why does a computer user need to save their work to the hard drive before they turn off the computer?

How much RAM does a modern microcomputer have? \_\_\_\_\_

Briefly list the purpose of the following:

port \_\_\_\_\_

expansion slot \_\_\_\_\_

power supply \_\_\_\_\_

## Input Devices

What is the purpose of an input device? \_\_\_\_\_

How does a user decide what input devices they require? \_\_\_\_\_

List eight input devices and briefly describe why a computer user may want each of them.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

## Output Devices

What is the purpose of an output device? \_\_\_\_\_

Briefly describe the 2 types of monitors.

1. \_\_\_\_\_

2. \_\_\_\_\_

Why can having a monitor which can display 4 billion different colours be considered a waste of money?

What is the most common size of monitor in today's computer systems? \_\_\_\_\_

Define the term **resolution**. \_\_\_\_\_

What is the purpose of a video card? \_\_\_\_\_

Why do gamers want to buy a good quality video card? \_\_\_\_\_

Fill in the table on the following page in a brief but descriptive manner.

**Printer Comparison Table**

<b>Characteristic</b>		
<b>Noise level</b>		
<b>Speed</b>		
<b>Colour printing possible?</b>		
<b>Quality</b>		
<b>Purchase Cost</b>		
<b>Maintenance Cost</b>		
<b>Users</b>		

What is the difference between **hardcopy** and **softcopy**? \_\_\_\_\_

Why would a user want a set of speakers with their computer system? \_\_\_\_\_

## Long-term Storage Devices

Why does a computer system require at least one long-term storage device? \_\_\_\_\_

What is a byte? \_\_\_\_\_

What is a kilobyte? \_\_\_\_\_ What is a megabyte? \_\_\_\_\_

What is a gigabyte? \_\_\_\_\_

Fill in the following table in a brief but descriptive manner.

Long-term Storage Comparison Table

<b>Characteristic</b>					
Media					
Mechanical Device					
Amount of Storage					
Uses					

## Software

What is **software**? \_\_\_\_\_

(Hint: You may have to back the 1<sup>st</sup> page of this assignment)

List and briefly describe the 3 types of software

1. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_