

Name \_\_\_\_\_

## WORKSHEET 6 – CPU AND COMPUTER PERFORMANCE

Make sure that you are familiar with all of the information detailed in this booklet. There are a number of tasks for you to carry out, be sure to read the information fully whilst completing the tasks. You could be asked about any of this in the test!

**Use the theory notes in the worksheet 6 section of the [teach-ict.com](http://teach-ict.com) site to help you complete this booklet.**

### TASK 1: CPU

a) What do the initials 'CPU' stand for?

b) What is the CPU commonly known as?

c) What is the job of the CPU?

d) What unit is the speed of a CPU measured in?

e) What is the typical size of a CPU in most desktop computers today?

f) What is the extra fact which you found out about a CPU?

### TASK 2: COMPUTER PERFORMANCE

There are three main factors which affect the computer's performance. List them below:

1 \_\_\_\_\_

2 \_\_\_\_\_

3 \_\_\_\_\_

### TASK 3: CPU AND COMPUTER PERFORMANCE

Use the words below to fill in the gaps in the text.

INSTRUCTION SECOND	BILLIONS PERFORMANCE	CPU FASTER	SPEED QUARTZ
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Every CPU contains a tiny \_\_\_\_\_ clock which can 'tick' \_\_\_\_\_ of times each \_\_\_\_\_.

Every time there is a 'tick' the \_\_\_\_\_ can carry out an \_\_\_\_\_. The more instructions that can be performed each second, the \_\_\_\_\_ the computer will complete its tasks.

By increasing the \_\_\_\_\_ of the CPU by replacing the current one with a much faster one or by a technique called 'overclocking', you can improve the computer's \_\_\_\_\_.

### 4: RAM AND COMPUTER PERFORMANCE

a) What does the term 'RAM' stand for?

b) Is RAM 'Computer Memory' or 'Backing Storage'?

c) In your own words, explain below why increasing the amount of RAM would improve the performance of a computer.

## 5: NUMBER OF APPLICATIONS RUNNING AND COMPUTER PERFORMANCE

a) In your own words, explain why having a lot of applications and documents open would eventually slow down the performance of a computer.

b) What advice would you give to someone who was experiencing slow computer performance due to having too many applications and windows open?

## 6: TRUE OR FALSE

Which of the following statements are true or false?

Statement	True or False?
The CPU can store data for a long period of time	
The CPU is known as the 'brain' of the computer	
The speed of a CPU is measured in Megabytes or Gigabytes	
A typical CPU speed would be around 3 GHz	
Increasing the speed of the CPU will improve the performance of a computer	
RAM is known as 'Volatile' memory	
RAM stores data and application modules whilst you are working on them	
Increasing the amount of RAM will increase the performance of a computer	
Closing down documents and applications when you have finished with them will improve the speed of a computer	

END OF WORKSHEET