Immary		Key Vocabulary	
Computers require input hardware, processing hardware and output hardware. The hardware that defines a computer is the CPU and memory . Without these a computer could not function. The CPU and memory work together to run programs. CPU - executes programs using the fetch-decode-execute cycle . Memory - stores program operations and data while a program is being executed. There are several types of memory, including: registers, cache, RAM and virtual memory . Storage - stores programs and files long term, even when they are not in use. Devices such as hard drives, USB memory sticks or SD cards are used to store files such as photos, music and software applications long term. An input device is any piece of computer hardware used to provide data to a computer system. Examples include: keyboard, mouse, scanner, digital camera and webcam. An output device is any piece of computer hardware used to communicate the results of data that has been		Clock speed	The speed of a computer CPU, measured in hertz.
		Cache	A piece of temporary memory. It can refer to a part of the RAM, storage disk, CPU, or an area for
		CPU	Central Processing Unit - the brains of the computer that processes program instructions.
			Also called a microprocessor.
		Execute	To run a computer program.
		GHz	Gigahertz. One billion hertz per second = one gi- gahertz. This is a measure of frequency and is used to describe bus speeds and CPU clock speeds.
rocessed.		Hardware	The physical parts of a computer system, e.g. a graphics card, hard disk drive and CD drive.
Central Processing Unit Central Processing Unit or CPU is arguably the most	Fetch	Mother- board	The circuit board inside a computer that houses the CPU, memory and connections to other devices.
ortant component of a computer. can think of the CPU is being like the brain in a nan. responsible for all of a computer's processing.	1 Decode	RAM	Memory that is constantly being written to and read from. It does not retain its contents without a constant supply of power, i.e. when a computer is turned off, everything stored in its RAM is lost.
plas.	Execute	Registers	The section of high speed memory within the CPL that stores data to be processed.
	The Fetch – Decode – Execute cycle	Software	Software is the programs that run on a computer
CPU	The CPU operates by repeating three operations:	Virtual memory	A section of a computer storage drive which is temporarily used as RAM.
	FETCH – causes the next instruction and any data involved to be fetched from main memory DECODE – decodes the instruction to make sure it	Binary Units	
can be carried out		Remem	ber the units used in the binary sy
	EXECUTE – carries out the instruction	1 byte	= 8 bits
	Repeat	I Dyte	- 0013

A COLOR

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CPU SPRINT FINAL

1GHz

2GHz 3GHz

Motherboard

- 1 Megabyte = 1024 Kilobytes
- 1 Gigabyte = 1024 Megabytes
- 1 Terabyte = 1024 Gigabytes