

Chapter 1 — Day 1

Computers, Hardware & Software

WHY COMPUTERS ARE VERSATILE

KEY VOCABULARY	Your Notes:
• Programmable • Software • Programmer • Programming Language	

Big idea: A computer can perform many different jobs because it is _____.

Programming is both an _____ and a _____.

THE FIVE HARDWARE COMPONENTS

KEY VOCABULARY	Your Notes:
• CPU • Main Memory • Secondary Storage • Input Device • Output Device	

The CPU is one component in a larger _____.

INSIDE THE CPU

Component	What it does / memory trick
Control Unit	
ALU	

FETCH → DECODE → EXECUTE

Step	What happens
FETCH	
DECODE	
EXECUTE	

This cycle then _____ while a program is running.

BITS, BYTES & ADDRESSES

Term	Definition / Note
Bit	
Byte	
Address	

Quick check: 1 byte = _____ bits

RAM VS. SECONDARY STORAGE

	RAM	Secondary Storage
Speed		
Power off		
Holds		
Volatile?		

Why do we save our work? _____

Capacity ≠ Speed: A larger drive means _____

Secondary Storage Device Types: _____

INPUT VS. OUTPUT

Input = data moving _____ the computer. **Output** = data moving _____ the computer.

Device	Input	Output
Keyboard	☐	☐
Monitor	☐	☐
Mouse	☐	☐
Printer	☐	☐
Storage Device	☐	☐

OPERATING SYSTEM VS. APPLICATION SOFTWARE

Operating System	Application Software
Definition:	Definition:
Examples:	Example:

MULTITASKING & TIME SHARING

KEY VOCABULARY • Multitasking • Time Sharing	Your Notes:
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When several programs appear to run at once, the CPU _____