Invitation to Computer Science	Chapter 1	Name:
Key Terms		
Computer Science:		
Sequential Operations:		
Conditional Operations:		
Iterative Operations:		
Key Ideas		
Misconceptions of computer science:		
Who is considered as the first computer progr	rammer?	
Reflection/Notes/Questions		
The text talked briefly about algorithms; think	of some algorithms yo	ou use every day and list them here:
What is your idea of Computer Science?		
Thoughts/notes:		

CS50 AP: Understanding Technology	Hardware	Computers and Computing
Ke	y Terms	
Computer:		
Computing:		
Input:		
Output:		
Algorithm:		
Programming:		
Computational Process:		
Hardware:		
Software:		
Operating System:		
CPU:		
Ke	ey Ideas	
What characteristics define a computer?		
Do computers necessarily need electricity to be co	onsidered compu	ters? Why/why not?
Reflection/Notes/Questions		
Think specifically about passive computing. What but still might be considered computing.	types of things m	night you do that don't involve you actively
Is it still considered computing if you get the wrong computation?	g answer? What a	are the essential components of computing
Thoughts/notes:		

CS50 AP: Understanding Technology	Hardware	How Computers Work / Memory
Key Terms		
Bit:		
RAM:		
HDD:		
SSD:		
Peripherals:		
Bus:		
Heatsink:		
	Key Ideas	
How is it that your computer knows to display words on your screen instead of playing music?		
What are some of the common ports on computers and what do they do?  What is the key thing that the operating system (OS) does for you?		
Reflection/Notes/Questions		
Are there different layers of hardware? What i	makes up these layers	s, and how do they interact?
Thoughts/notes:		

CS50 AP: Understanding Technology	Hardware	Memory
	Key Terms	
Memory:		
Cache:		
Volatile:		
Nonvolatile:		
	Key Ideas	
What is the largest type of memory? Smallest?		
How much memory doesbat 322PU have? 64-bit?		
Reflect	ion/Notes/Questio	ns
What are some of the tradeoffs when conside	ring types of memory	?
Througall ofthis unit, you have probably heard a lot about abstraction; what exactly is abstraction?		
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CS50 AP: Understanding Technology	Hardware	SoC
	Key Terms	
Transistor:		
Semiconductor:		
True:		
False:		
Boolean Logic:		
Core:		
Hyperthreading:		
Motherboard:		
SoC:		
	Key Ideas	
In Boolean logic, how are the values represe What are the relative voltages that go along		
What are the 3 main types of gates/circuits?	)	
Refle	ction/Notes/Questic	ons
What is Moore's law and how does it affect	computer science? (yo	ou may have to search online for this ans
Thoughts/notes:		

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CS50 AP: Understanding Technology	Internet	
Key Terms		
IP:		
DHCP:		
DNS:		
Packets:		
TCP/IP:		
Protocols:		
UDP:		
Router:		
	Key Ideas	
What is the major difference between UDP and TCP?		
Reflect	ion/Notes/Questio	ns
Briefly describe how the internet works in your	r own words.	
Thoughts/notes:		

CS50 AP: Understanding Technology	Multimedia	
Key Terms		
MIDI:		
File formats for recorded music:		
RGB:		
Lossy compression:		
Lossless compression:		
Image file formats:		
Video file formats:		
Key Ideas		
Of the audio file formats you listed above, which are compressed? Which are uncompressed?		
Can you really 'enhance' images like they do on TV? Why or why not?		
Describe how video compression works.		
What is the difference between Virtual and Augmented Reality		
Reflection/Notes/Questions		
Thoughts/notes:		