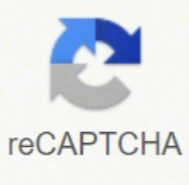




I'm not robot



Next

# Computer hardware basic information



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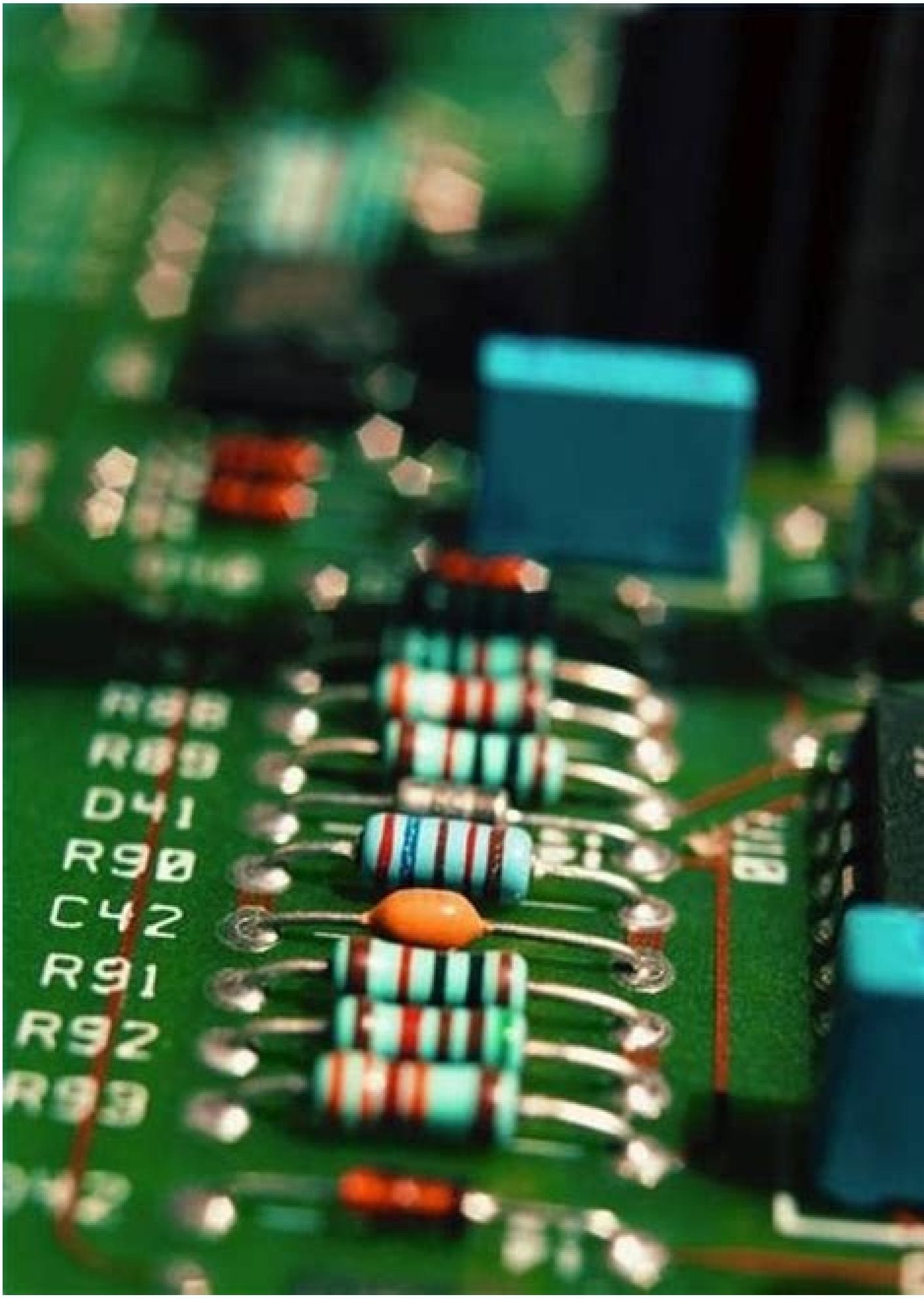
## Storage Devices

to Save is to Store

- \_\_\_\_\_ 1. stores programs inside your computer (C: drive)
- \_\_\_\_\_ 2. stores videos
- \_\_\_\_\_ 3. a network drive
- \_\_\_\_\_ 4. stores music
- \_\_\_\_\_ 5. stores files to take home from school

A.  B. 

C.  D.  E. 



What is basic computer hardware. What is computer hardware and its types.

(It's called volatile memory because it gets erased every time the computer restarts.) What it does: RAM helps programs and games start up and close quickly. What it does: Graphics cards often communicate directly with the display monitor, meaning a \$1,000 graphics card won't be of much use if there isn't a high-end monitor connected to it. (The Raspberry Pi, like the one featured in our summer course for kids, Build and Code Your Own Take-Home Laptop, is a motherboard.) The motherboard's video card and Central Processing Unit are contained in an integrated (built-in) chipset, shown in the picture below: This is where input/output devices such as a keyboard, mouse, and speakers get plugged in. What it does: Whenever you write a line of code (in Python, Java, C++, or any other programming language), it's broken down into assembly language—which is a language that the processor can understand. In addition to video games, though, good graphics cards also come in handy for those who rely on images in order to execute their craft, like 3D modelers using resource-intensive software. 4. What it does: HDDs are made of an actual disk onto which data is stored. Some enjoy computers from the frontend, spending time on YouTube, shopping on eBay, and playing video games (and experiencing the benefits of doing so.). But for others, it's the "how" that proves to be more intriguing! Taking computers apart and putting them back together, adding new hardware, troubleshooting hardware assembly, and booting them up (and crossing their fingers!) is all part of such intrigue. Does the latter sound like your child? Our "build your own laptop" courses offer introductions to hardware, engineering, and coding, offering students the opportunity to assemble laptops, code with Python to create games, and use the Linux OS. Storage What it is: All computers need somewhere to store their data. This is by no means intended to be an invitation to disassemble your computer, nor is it a set of instructions to do so. Graphics Processing Unit (GPU) What it is: It's not uncommon to hear gamers obsess over the next new graphics card, as these graphic cards make it possible for computers to generate high-end visuals like those found in the many different types of video games. Central Processing Unit (CPU) What it is: The CPU is often called the "brain" of a computer, thanks to its direct plug connection to the motherboard, and communication with all of the computer's other components. And that's where the CPU comes in—all the processes a computer handles are taken care of by the CPU. It fetches, decodes, and executes these instructions. A computer is any machine that can be programmed to carry out a set of algorithms and arithmetic instructions. Of course, the computers we think of today are so much more than that—and I'm talking beyond just being machines used to play games and watch videos of cats on the internet! 5 parts of a computer Whether it's a gaming system or a home PC, the five main components that make up a typical, present-day computer include: A motherboard A Central Processing Unit (CPU) A Graphics Processing Unit (GPU), also known as a video card Random Access Memory (RAM), also known as volatile memory Storage: Solid State Drive (SSD) or Hard Disk Drive (HDD) In terms of construction, each of these main components are attached to the motherboard and then put into a protective case—resembling the clean, polished look most of us are accustomed to seeing. Sure, most computers have their own distinct design - and different brands of hardware installed - but the components listed above are standard across all computers. Important: A quick note before we dive into the details—I'm listing and talking about the different components of a computer. (HDDs are cheaper than SSDs, but are slowly becoming more and more obsolete.) SSDs (think SIM cards) have no moving parts and are faster than a hard drive, because no time is spent waiting for a mechanical arm to find data on a physical location on the disk. All of this also improves soft skills like project-planning and hands-on coordination! To learn more, visit the links below: Raspberry Pi Summer Camp (build a laptop computer; ages 10-12) Python Coding Summer Camp (for Machine Learning; ages 13-17) Outside of summer, kids can still get hands-on with coding and micro:bit in online private lessons (micro:bit Included), working with JavaScript or visual coding to turn on lights and power different components. Check out our many different online coding courses for kids and teens. With over 20 years of experience and a track record of incredible student outcomes, iD Tech is an investment in your child's future. Whether they're 7, 19, or somewhere in between, we've perfected the system to guide them from total beginner to college-bound pro. 2. 3. Without the proper knowledge, you can severely damage your computer, and importantly, doing so is unsafe. 1. Random Access Memory (RAM) What it is: RAM, also known as volatile memory, stores data regarding frequently accessed programs and processes. Motherboard What it is: All components of a computer communicate through a circuit board called the motherboard, as was mentioned above. What it does: Think of the motherboard as the glue that holds everything else together. Fun, right? 5. The disk is read by a mechanical arm. Modern computers either use a Hard Disk Drive (HDD) or Solid State Drive (SSD).



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