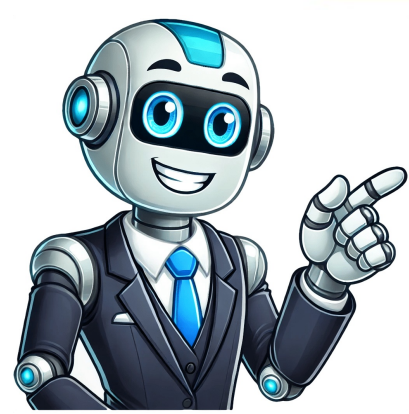


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you can help you digest the information faster. For example, if you're learning a new language, you could break it down into nouns, verbs, adjectives, and tenses. It helps the information feel less overwhelming, and it gives you a path forward on how to study it.[1]If you're learning from a textbook, it may be organized like this already. Advertisement Make your goals specific and time-based to cover the most ground. It will help break up the subject so you aren't overwhelmed by an entire field of knowledge. You could also set smaller goals throughout the weeks to work upward learning an entire subject.[2]For example, if you're studying math, try making it a goal to nail down basic algebra by next week. Then, you can move on to tougher concepts, like calculus. You can also split things up by chapters in a textbook. Great notes make studying much easier. Listen to the information being presented and write it down in your own words. Write down key information in short phrases rather than using complete sentences. Leave spaces in your notes to jot down comments or questions later on.[3]For example, instead of writing down, The food chain is a hierarchical series of organisms each dependent on the next as a source of food, you could write, Food chain: series of organisms eating each other. Try developing a shorthand that's easy to write down and understand. For example, if you're learning about chemistry concepts, you could shorten catalyst to cat, chromatography to chrom, or stoichiometry to stoich. If you're taking notes on how to do something sequential, like how to solve a math problem, write your notes down in steps. That way, it will be easier to remember how to apply those same steps to different problems.[4] Advertisement Studies show that writing notes by hand solidifies information in your head. Try going a little old school and whip out a sheet of paper and a pencil. If you want to keep your notes organized, type them up later and save them on your computer.[5]Writing your notes out by hand can take a little longer than typing them up, but it's more important to write in phrases and use shorthand. Getting someone else to explain it can help you learn faster. If there's a key concept that you just don't quite get, don't be afraid to ask. If you're in a classroom setting, approach the teacher or a fellow classmate.[6] If you're working on your own, try Googling it or finding an online forum for help.[7]If you're in higher education, go to your teachers office hours to get help throughout the school year.EXPERT TIP Joseph Meyer Math Teacher Joseph Meyer is a High School Math Teacher based in Pittsburgh, Pennsylvania. He is an educator at City Charter High School, where he has been teaching for over 7 years. Joseph is also the founder of Sandbox Math, an online learning community dedicated to helping students succeed in Algebra. His site is set apart by its focus on fostering genuine comprehension through step-by-step understanding (instead of just getting the correct final answer), enabling learners to identify and overcome misunderstandings and confidently take on any test they face. He received his MA in Physics from Case Western Reserve University and his BA in Physics from Baldwin Wallace University. Review basic concepts before diving into advanced topics. Identifying the gaps in your knowledge helps you avoid difficulties later on. Take an assessment or get your teacher's advice on where you can improve. Practice targeted exercises to build a strong foundation so you can confidently tackle new lessons. Advertisement Lengthy cram sessions don't help you retain information in the long-term. Instead, try to space out your study time so you're doing a little bit every day. 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Connecting a subject to something you're doing outside of a classroom setting is a great way to keep your interest peaked.Oftentimes, people connect subjects to what they're doing career-wise. If you're learning chemistry, maybe you'll use it when you work in a lab later on. If you're studying math, maybe you'll crunch numbers at an accounting firm in the future. Advertisement Use this trick to learn chunks of information quickly. For example, if you want to remember the colors of the rainbow (red, orange, yellow, green, blue, indigo, violet), you could use the mnemonic device Roy G. Biv. It's much easier to remember, so you can memorize it faster and use it to retain information.[11]If you're learning the order of operations in math (parentheses, exponents, multiplication, division, addition, subtraction), you could use the mnemonic device PEMDAS. Practice tests can show you where you're struggling. You can find tons of practice tests online for almost any subject. 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When doing practice problems, promptly check to see if your answers are correct. Use worksheets that provide answer keys for instant feedback. Discuss answers with a classmate or find explanations online. Immediate feedback will help you correct your mistakes, avoid bad habits, and advance your learning more quickly. Advertisement Add New Question Question What should I do if I'm getting low grades in math but am trying my best? The first thing you can do is talk to your teacher to make sure they know you are trying. If your school has multiple math classes, try asking them if there is a possibility of moving down to one which has more time to work on math improvement. Also, you can ask your teacher for study tips and extra help, and maybe they can even get you situated with a tutor if you need it. Question How to rectify English words quickly? Try using flashcards, they help a lot. Even when making them, it helps you learn. 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Process servers deliver legal documents like subpoenas and complaints, abiding by state regulations. They must have strong research skills and often work long hours to locate individuals. Private investigators conduct covert surveillance, research legal matters, and interview witnesses for individuals, businesses, or attorneys. Entry typically requires a high school diploma, though degrees in fields like criminal justice may be preferred. Find out MoreThis can help you digest the information faster. For example, if you're learning a new language, you could break it down into nouns, verbs, adjectives, and tenses. It helps the information feel less overwhelming, and it gives you a path forward on how to study it.[1]If you're learning from a textbook, it may be organized like this already. Advertisement Make your goals specific and time-based to cover the most ground. It will help break up the subject so you aren't overwhelmed by an entire field of knowledge. 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Advertisement Add New Question Question What should I do if I'm getting low grades in math but am trying my best? The first thing you can do is talk to your teacher to make sure they know you are trying. If your school has multiple math classes, try asking them if there is a possibility of moving down to one which has more time to work on math improvement. Also, you can ask your teacher for study tips and extra help, and maybe they can even get you situated with a tutor if you need it. Question How to rectify English words quickly? Try using flashcards, they help a lot. Even when making them, it helps you learn. Ask a Question Advertisement This article was co-authored by Daron Cam and by wikiHow staff writer, Hannah Madden. Daron Cam is an Academic Tutor and the Founder of Bay Area Tutors, Inc., a San Francisco Bay Area-based tutoring service that provides tutoring in mathematics, science, and overall academic confidence building. Daron has over eight years of teaching math in classrooms and over nine years of one-on-one tutoring experience. He teaches all levels of math including calculus, pre-algebra, algebra I, geometry, and SAT/ACT math prep. Daron holds a BA from the University of California, Berkeley and a math teaching credential from St. Mary's College. This article has been viewed 89,030 times. Co-authors: 9 Updated: June 24, 2024 Views:89,030 Categories: Study Skills PrintSend fan mail to authors Thanks to all authors for creating a page that has been read 89,030 times. "I thought of giving up on putting effort into reading, but as I read through the article, it motivated me more." Share your story Remember when you had to learn integrals in math class and had no idea what the F&S was going on? Why do I have to understand what's inside of this S? What I wish I had known earlier was that there is a better way to learn complex topics.As a now doctor, I've been learning hard stuff for a long time; I've been studying university-level material for over 12 years, and not just integrals. Things are even more random, like Eosinophilic Esophagitis, Allergic Bronchopulmonary Aspergillosis, or endoscopic retrograde cholangiopancreatography, who comes up with these names anyway? With some help from academic journals, I discovered the most efficient and effective way to learn complex things quickly, which has changed my life.We are going to cheat, then read a magazine, then build the house and break the house, and finally meet our friends Jimmy Neutron and Brain Blast before coming back to another dearer (and more random) friend, Richard Feynman.Heres how to learn hard stuff, easily.How did others learn it? Is there a cheat sheet? You should be discovering the theory of relativity on your own here. The best scientists and researchers all develop their theories and discoveries based on others research.For example, in medical school, many students made their Flashcards in an application called Anki. I know, however, that



Useful information sources. Just like Jimmy Neutron, let's brain blast! I never perfectly understand a topic, I guarantee it. Einstein had many working models of physics that he used to come to the theory of relativity. Mozart had uninteresting and flawed pieces, but he also created moving music; Thomas Edison supposedly failed at least over 1,000 times before he made a functional light bulb. The more you know about the world, the more you know about the world. Gravity before coming to the answer. Here are some facts: Students who read problems without seeing them answers perform better on exams and tests than students who simply study the problem-answer combination.5.Through academic journals and experiments, practice testing is consistently reported as one of the most efficient and effective study techniques for higher grades (compared to highlighting, summarizing, rereading, or underlining).3.4.Simply put, practice testing (a form of active recall) is the highest yield study technique there is.Now, because of the wide variety of material you could be learning, I'm not going to give specific resources or places to find practice questions or problems, but you know they are there. Generally, you can look at the back of your textbookAsk your teacher for some practice questionsCREATE some practice questionsSearch online for practice questionsHere's my guide on properly using practice questions.In medicine, we have a phrase: see one, do one, teach one. Now, should we necessarily be teaching something we just learned? Maybe not, but a supervising doctor is always there, watching and correcting mistakes. However, We teach one because this is a fantastic way to learn and solidify the information in our brains.Evidence shows simply teaching a topic back can dramatically improve retention and memory of a subject as well as exam performance.6.7The Feynman technique explains a topic to someone in a simple manner as if you were explaining it to a 12-year-old in your own words. In your own words is the most essential part of that definition because its how you start to work with the material in your brain. Remember that hierarchy of learning? This gets us to step 4, where we begin to analyze and work with the material, significantly increasing our retention of the material.The mistake I see most people make: they wait way too long before they start teaching it to someone. I would start trying to teach topics to my friends the next day, or, in medical school, we were forced to introduce a topic to the class the next day. My learning and test scores skyrocketed, likely due to this one intervention.Here's my guide on the Feynman Technique. Overall, though, in mathematics, or be challenged. However, with a well-thought-out strategy, you really can learn anything in the entire world, and this is life-changing. Nothing can stop you, no topic is too complex, no task is too hard, and you are just going to get the exact down step by step, slowly, and become the powerful, successful superstar I know you are. In summary: 30 minutes to 1 hour on steps 1-3.Dive into your remaining study time between steps 4 (1/3 of the time) and 5-6 (2/3 of the time) preferably one day after step 3.Good luck, and remember, never get between a Carl and a croissant.Stickgold, R. Sleep-dependent memory consolidation.Nature437, 1272-1278 (2005). KJ, Cote KA. 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Improving Students Learning With Effective Learning Techniques: Promising Directions From Cognitive and Educational Psychology.Sci Public Interest. 2013;14(1):458. doi:10.1177/1529100612453266Gregory A, Walker I, McLaughlin K, Peets AD. Both preparing to teach and teaching positively impact learning outcomes for peer teachers. Med Teach 2011 Aug;33(8):e417-422. Take handwritten notes.Quiz yourself on the information you're learning.Teach the information to someone else.Use mnemonic devices to help you remember.Take frequent breaks to recharge your brain.Eliminate distractions and stop multitasking.You're more likely to remember something you've written down. If you're in a class, listen carefully to the lecture and write down the keywords and phrases you hear, and if you're learning something online or from a book, rewrite what you read in your own words. Taking handwritten notes helps you retain information better the first time you learn it, so you don't have to reread it over and over again in the future.[1]Not only does the act of writing your notes help you learn things faster, but it will also leave you with a clear sheet of important concepts to refer to if you need to quickly refresh your memory later.You can even go through and highlight or underline important keywords and phrases so that they immediately stand out when you reread your notes. AdvertisementHearing yourself repeat things out loud helps you remember them better. Oral repetition cuts down on learning and review time because the information is more ingrained in your brain the first time you learn it. If you're studying from a book, an online source, or your notes, read important keywords and concepts aloud to lock them into your memory.[2]For example, if you're trying to learn a new language, practice saying vocab words and sentences as you learn them.Since you're actively speaking, the information stands out better in your long-term memory.[3] Quiz yourself so you know what topics you still need to review. After you've read through or practiced something, test your memory by reciting everything you just learned. If you need to remember keywords or phrases, try writing down their definitions without looking them up. If you have flashcards, use them to test your knowledge. Make a note of what you have trouble remembering so you can go back and practice it some more. That way, you aren't wasting time focusing on things you already know well.[4]For example, if you're testing yourself on a textbook chapter, summarize everything that happened in your own words. 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Just pretend that you do.Research suggests that its still beneficial to study with the expectation of teaching the information to someone else, even if you don't actually end up doing it.[6] Mnemonic devices can help you recall information more quickly. Dorsey explains that mnemonic devices and confidently take on any test they face. He received his MA in Physics from Case Western Reserve University and his BA in Physics from Baldwin Wallace University. When doing practice problems, promptly check to see if your answers are correct. Use worksheets that provide answer keys for instant feedback. Discuss answers with a classmate or find explanations online. Immediate feedback will help you correct your mistakes, avoid bad habits, and advance your learning more quickly. AdvertisementAdd New Question Question What should I do if I'm getting low grades in math but am trying my best? The first thing you can do is talk to your teacher to make sure they know you are trying. If your school has multiple math classes, try asking them if there is a possibility of moving down to one which has more time to work on math improvement. Also, you can ask your teacher for study tips and extra help, and maybe they can even get you situated with a tutor if you need it. Question How to reciting English words quickly? Try using flashcards, they help a lot. Even when making them, it helps you learn. Ask a Question Advertisement This article was co-authored by Daron Cam and by wikiHow staff writer, Hannah Madden. Daron Cam is an Academic Tutor and the Founder of Bay Area Tutors, Inc., a San Francisco Bay Area-based tutoring service that provides tutoring in mathematics, science, and overall academic confidence building. Daron has over eight years of teaching math in classrooms and over nine years of one-on-one tutoring experience. He teaches all levels of math including calculus, pre-algebra, algebra I, geometry, and SAT/ACT math prep. Daron holds a BA from the University of California, Berkeley and a math teaching credential from San Diego State University. This article has been viewed 89,030 times. Co-authors: 9 Updated: June 24, 2024 Views:89,030 Categories: Study Skills PrintSend fan mail to authors Thanks to all authors for creating a page that has been read 89,030 times. I thought of giving up on putting effort into reading, but as I read through the article, it motivated me more." Share your story

How to learn things easily. How to easily learn hard things. How to learn something difficult. Learn difficult things. How to learn difficult concepts.



