

Study Skills Tips for Students and Their Parents

ELEMENTARY:

Vocabulary:

1. Ask your student to give you the definition of the word he/she is trying to learn.
2. Ask your student to use the word in a sentence.
3. Give your student the definition, and ask them for the word. (This should be LAST!)

**Study a few words each night. Don't cram!

Studying for Math Tests:

1. Study vocabulary in Math Journal. (See above.)
2. Study workbook pages and homework sheets.
3. Make yourself a practice test or have parent/friend make one for you.
4. Take your practice test, figure out where you are having trouble. Ask your teacher for extra help BEFORE the test!
5. Pay attention EVERYDAY!
6. Be at school - it is very important!

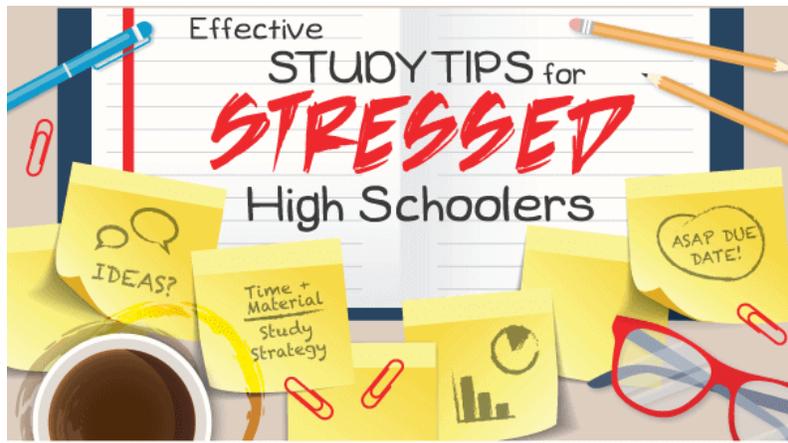
Studying for Social Studies and Science Tests:

1. Make flash cards for vocabulary. (See above.)
2. Review notes/ study guides each night. (Take one section or a few questions each night to look over.)
3. Ask a grown-up or friend to ask you questions from the vocabulary and notes (just a few questions each night will make studying less overwhelming).
4. Make up a test for yourself--then take it. Remember to be as tough as your teacher! Have a grown-up check it, and go over it with you.
5. Make digital flashcards using Quizlet or similar programs.

Studying for Map Quizzes:

1. Make flash cards. Put the state on one side, and the capital on the other. Remember those abbreviations, too! (You can make these with any type of paper.)
2. Trace the map on a piece of paper. See if you can identify each state.
3. Label the new map with the capital and abbreviation.
4. Do this several times until you get them all right!

ALL:



Study time in high school means more **independent planning, scheduling, and learning** than in elementary and middle school. It can be intimidating to develop a system of your own. Here are some **tips and tricks** to guide you through the process.

STUDY-TIME PREP

STEP 1: Outline your main study topics.

STEP 2: Break topics down into tasks.

STEP 3: Choose **5 DAYS PER WEEK** to study.

STEP 4: Plan to study **2 HRS EACH DAY**.

Create a schedule based on this outline, and then add your weekly plan to a calendar or an organizer.

NOTE-TAKING TRICKS

TRY "SKETCH NOTING"

As you take notes, feel free to draw pictures, add thought bubbles and borders, and allow your creativity to shape your studying.

USE ABBREVIATIONS

Don't spend too much time writing everything out. You have a lot of studying to do, so it's okay to shorten certain terms for time's sake.

CREATE A BULLET POINT SYSTEM

Categorize your notes by leaving different bullet points next to topics you'd like to make flashcards for, points you'd like to revisit, or points that have other unique parameters.

You can draw shapes or pictures for the bullets. Create a key for what each bullet type indicates.

BULLET POINTS KEY

- MAJOR CONCEPT
- FLASHCARD TERM
- DEFINITIONS
- REVISIT IDEA



PRODUCTIVE STUDYING



TURN OFF DISTRACTIONS
such as the TV, your cell phone, and other devices.



START EARLY
so you are not falling asleep as you study. Try to study during daylight hours.



TAKE BREAKS
to move around, get a snack, or have a conversation. Just regroup.



GET ACTIVE
Listen to a recorded lecture as you take a walk, or hop on the treadmill to study your notes.



TURN YOUR NOTES INTO FLASHCARDS
for tricky topics.



ARRANGE GROUP STUDY SESSIONS
to mix things up.



CONNECT NEW INFORMATION TO PICTURES
or imagery for later recall.



STUDY IN A SETTING SIMILAR
to the testing environment.



THE "FORGETTING CURVE"

After 24 hours, people forget 50-80 percent of the information they've learned. Avoid this by revisiting the material for 10 minutes within that 24-hour window.

SNACKS TO BOOST BRAIN POWER & ENERGY

Eating healthy snacks while preparing for a big test can boost your energy and ability to retain information. Try reaching for:



WALNUTS



BERRIES



AVOCADOS



DARK CHOCOLATE



WHOLE-GRAIN BREAD



In place of coffee or energy drinks, try **GREEN TEA** for a boost of energy. Green tea contains **THEANINE**, which can help ease anxiety.



Try implementing these techniques into your study routine the next time you hit the books, and adjust them as needed until you find what works best for you.



Sources

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"Study Tips for Improving Long-Term Memory Retention and Recall," *Michigan State University College of Osteopathic Medicine*, http://com.msu.edu/Students/Academic_Guidance/long_term_retention_recall.pdf

"The Curve of Forgetting," *University of Waterloo*, <http://www.csub.edu/~bruff/The%20Forgetting%20Curve.pdf>

Studying 101: Study Smarter Not Harder

Do you ever feel like your study habits simply aren't cutting it? Do you wonder what you could be doing to perform better in class and on exams? Many students realize that their high school study habits aren't very effective in college. This is understandable, as college is quite different from high school. The professors are less personally involved, classes are bigger, exams are worth more, reading is more intense, and classes are much more rigorous. That doesn't mean there's anything wrong with you; it just means you need to learn some more effective study skills. Fortunately, there are many active, effective study strategies that are shown to be effective in college classes.

This handout offers several tips on effective studying. Implementing these tips into your regular study routine will help you to efficiently and effectively learn course material. Experiment with them and find some that work for you.

Reading is not studying

Simply reading and re-reading texts or notes is not actively engaging in the material. It is simply re-reading your notes. Only 'doing' the readings for class is not studying. It is simply doing the reading for class. Re-reading leads to quick forgetting.

Think of reading as an important part of pre-studying, but learning information requires [actively engaging](#) in the material (Edwards, 2014). Active engagement is the process of constructing meaning from text that involves making connections to lectures, forming examples, and regulating your own learning (Davis, 2007). Active studying does not mean highlighting or underlining text, re-reading, or rote memorization. Though these activities may help to keep you engaged in the task, they are not considered active studying techniques and are weakly related to improved learning (Mackenzie, 1994).

Ideas for active studying include:

- Create a study guide by topic. Formulate questions and problems and write complete answers. Create your own quiz.
- Become a teacher. Say the information aloud in your own words as if you are the instructor and teaching the concepts to a class.
- Derive examples that relate to your own experiences.
- Create [concept maps](#) or diagrams that explain the material.
- Develop symbols that represent concepts.
- For non-technical classes (e.g., English, History, Psychology), figure out the big ideas so you can explain, contrast, and re-evaluate them.
- For technical classes, work the problems and explain the steps and why they work.
- Study in terms of question, evidence, and conclusion: What is the question posed by the instructor/author? What is the evidence that they present? What is the conclusion?

Organization and planning will help you to actively study for your courses. When studying for a test, organize your materials first and then begin your active reviewing by topic (Newport, 2007). Often professors provide subtopics on the syllabi. Use them as a guide to help organize your materials. For example, gather all of the materials for one

topic (e.g., PowerPoint notes, text book notes, articles, homework, etc.) and put them together in a pile. Label each pile with the topic and study by topics.

For more information on the principle behind active studying, check out our tipsheet on [metacognition](#).

Understand the Study Cycle

[The Study Cycle](#), developed by Frank Christ, breaks down the different parts of studying: previewing, attending class, reviewing, studying, and checking your understanding. Although each step may seem obvious at a glance, all too often students try to take shortcuts and miss opportunities for good learning. For example, you may skip a reading before class because the professor covers the same material in class; doing so misses a key opportunity to learn in different modes (reading and listening) and to benefit from the repetition and distributed practice (see #3 below) that you'll get from both reading ahead *and* attending class. Understanding the importance of all stages of this cycle will help make sure you don't miss opportunities to learn effectively.

Spacing out is good

One of the most impactful learning strategies is “distributed practice”—spacing out your studying over several short periods of time over several days and weeks (Newport, 2007). The most effective practice is to work a short time on each class every day. The total amount of time spent studying will be the same (or less) than one or two marathon library sessions, but you will learn the information more deeply and retain much more for the long term—which will help get you an A on the final. The important thing is how you *use* your study time, not how *long* you study. Long study sessions lead to a lack of concentration and thus a lack of learning and retention.

In order to spread out studying over short periods of time across several days and weeks, you need control over your [schedule](#). Keeping a list of tasks to complete on a daily basis will help you to include regular active studying sessions for each class. Try to do something for each class each day. Be specific and realistic regarding how long you plan to spend on each task—you should not have more tasks on your list than you can reasonably complete during the day.

For example, you may do a few problems per day in math rather than all of them the hour before class. In history, you can spend 15-20 minutes each day actively studying your class notes. Thus, your studying time may still be the same length, but rather than only preparing for one class, you will be preparing for all of your classes in short stretches. This will help focus, stay on top of your work, and retain information.

In addition to learning the material more deeply, spacing out your work helps stave off procrastination. Rather than having to face the dreaded project for four hours on Monday, you can face the dreaded project for 30 minutes each day. The shorter, more consistent time to work on a dreaded project is likely to be more acceptable and less likely to be delayed to the last minute. Finally, if you have to memorize material for class (names, dates, formulas), it is best to make flashcards for this material and review periodically throughout the day rather than one long, memorization session (Wissman and Rawson, 2012).

It's good to be intense

Not all studying is equal. You will accomplish more if you study intensively. Intensive study sessions are short and will allow you to get work done with minimal wasted effort. Shorter, intensive study times are more effective than drawn out studying.

In fact, one of the most impactful study strategies is distributing studying over multiple sessions (Newport, 2007). Intensive study sessions can last 30 or 45-minute sessions and include active studying strategies. For example, self-testing is an active study strategy that improves the intensity of studying and efficiency of learning. However, planning to spend hours on end self-testing is likely to cause you to become distracted and lose your attention.

On the other hand, if you plan to quiz yourself on the course material for 45 minutes and then take a break, you are much more likely to maintain your attention and retain the information. Furthermore, the shorter, more intense sessions will likely put the pressure on that is needed to prevent procrastination.

Silence isn't golden

Know where you study best. The silence of a library may not be the best place for you. It's important to consider what noise environment works best for you. You might find that you concentrate better with some background noise. Some people find that listening to classical music while studying helps them concentrate, while others find this highly distracting. The point is that the silence of the library may be just as distracting (or more) than the noise of a gymnasium. Thus, if silence is distracting, but you prefer to study in the library, try the first or second floors where there is more background 'buzz.'

Keep in mind that active studying is rarely silent as it often requires saying the material aloud.

Problems are your friend

Working and re-working problems is important for technical courses (e.g., math, economics). Be able to explain the steps of the problems and why they work.

In technical courses, it is usually more important to work problems than read the text (Newport, 2007). In class, write down in detail the practice problems demonstrated by the professor. Annotate each step and ask questions if you are confused. At the very least, record the question and the answer (even if you miss the steps).

When preparing for tests, put together a large list of problems from the course materials and lectures. Work the problems and explain the steps and why they work (Carrier, 2003).

Reconsider multitasking

A significant amount of research indicates that multi-tasking does not improve efficiency and actually negatively affects results (Junco, 2012).

In order to study smarter, not harder, you will need to eliminate distractions during your study sessions. Social media, web browsing, game playing, texting, etc. will severely affect the intensity of your study sessions if you allow them! Research is clear that multi-tasking (e.g., responding to texts, while studying), increases the amount of time needed to learn material and decreases the quality of the learning (Junco, 2012).

Eliminating the distractions will allow you to fully engage during your study sessions. If you don't need your computer for homework, then don't use it. Use apps to help you set limits on the amount of time you can spend at certain sites during the day. Turn your phone off. Reward intensive studying with a social-media break (but make sure you time your break!) See our handout on [managing technology](#) for more tips and strategies.

Switch up your setting

Find several places to study in and around campus and change up your space if you find that it is no longer a working space for you.

Know when and where you study best. It may be that your focus at 10:00 PM. is not as sharp as at 10:00 AM. Perhaps you are more productive at a coffee shop with background noise, or in the study lounge in your residence hall. Perhaps when you study on your bed, you fall asleep.

Have a variety of places in and around campus that are good study environments for you. That way wherever you are, you can find your perfect study spot. After a while, you might find that your spot is too comfortable and no longer is a good place to study, so it's time to hop to a new spot!

Become a teacher

Try to explain the material in your own words, as if you are the teacher. You can do this in a study group, with a study partner, or on your own. Saying the material aloud will point out where you are confused and need more information and will help you retain the information. As you are explaining the material, use examples and make connections between concepts (just as a teacher does). It is okay (even encouraged) to do this with your notes in your hands. At first you may need to rely on your notes to explain the material, but eventually you'll be able to teach it without your notes.

Creating a quiz for yourself will help you to think like your professor. What does your professor want you to know? Quizzing yourself is a highly effective study technique. Make a study guide and carry it with you so you can review the questions and answers periodically throughout the day and across several days. Identify the questions that you don't know and quiz yourself on only those questions. Say your answers aloud. This will help you to retain the information and make corrections where they are needed. For technical courses, do the sample problems and explain how you got from the question to the answer. Re-do the problems that give you trouble. Learning the material in this way actively engages your brain and will significantly improve your memory (Craik, 1975).

Take control of your calendar

Controlling your schedule and your distractions will help you to accomplish your goals.

If you are in control of your calendar, you will be able to complete your assignments and stay on top of your coursework. The following are steps to getting control of your calendar:

1. On the same day each week, (perhaps Sunday nights or Saturday mornings) plan out your [schedule](#) for the week.
2. Go through each class and write down what you'd like to get completed for each class that week.
3. Look at your calendar and determine how many hours you have to complete your work.

4. Determine whether your list can be completed in the amount of time that you have available. (You may want to put the amount of time expected to complete each assignment.) Make adjustments as needed. For example, if you find that it will take more hours to complete your work than you have available, you will likely need to triage your readings. Completing all of the readings is a luxury. You will need to make decisions about your readings based on what is covered in class. You should read and take notes on all of the assignments from the favored class source (the one that is used a lot in the class). This may be the textbook or a reading that directly addresses the topic for the day. You can likely skim supplemental readings.
5. Pencil into your calendar when you plan to get assignments completed.
6. Before going to bed each night, make your plan for the next day. Waking up with a plan will make you more productive.

Use downtime to your advantage

Beware of 'easy' weeks. This is the calm before the storm. Lighter work weeks are a great time to get ahead on work or to start long projects. Use the extra hours to get ahead on assignments or start big projects or papers. You should plan to work on every class every week even if you don't have anything due. In fact, it is preferable to do some work for each of your classes every day. Spending 30 minutes per class each day will add up to three hours per week, but spreading this time out over six days is more effective than cramming it all in during one long three-hour session. If you have completed all of the work for a particular class, then use the 30 minutes to get ahead or start a longer project.

Use all your resources

Remember that you can [make an appointment](#) with an academic coach to work on implementing any of the strategies suggested in this handout.

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