

# School Datebooks



## COLLEGE REFERENCE PAGES

5.5" X 8.5"



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# LANGUAGE ARTS *parts of speech*

<b>NOUN</b>	A WORD THAT NAMES A PERSON, PLACE, THING, QUALITY, ACT, OR FEELING.
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**Common nouns** are general and do not refer to a specific person, location, or object.

→ *Examples:* man, city, tonight, honesty, happiness

**Proper nouns** are capitalized and refer to a particular person, place, or thing.

→ *Examples:* Reggie, Market Square Arena, Saturday

<b>PRONOUN</b>	A WORD THAT TAKES THE PLACE OF A NOUN.
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**Nominative Case Pronouns** replace the subject of a sentence or clause.

→ *Examples:* *She* took the bus to visit Auntie. *He* and *she* are looking forward to visiting Oshkosh.

**Objective Case Pronouns** receive a verb's action or follow a preposition.

→ *Examples:* Please give *me* the papers.

Timothy's outstanding service earned *him* the award.

**Possessive Case Pronouns** show ownership or possession.

→ *Examples:* The *dog* escaped *from its* cage. *Their* car slid off the icy road.

<b>VERB</b>	A WORD THAT EXPRESSES ACTION OR A STATE OF BEING. IT ALSO INDICATES THE TIME OF ACTION OR STATE OF BEING. A VERB HAS DIFFERENT FORMS DEPENDING ON ITS NUMBER, PERSON, VOICE, TENSE, AND MOOD.
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**Number** indicates whether a verb is singular or plural. The verb and its subject must agree in number.

→ *Examples:* One dog barks. Two dogs bark.

**Person** indicates whether the subject of the verb is 1<sup>st</sup>, 2<sup>nd</sup>, or 3<sup>rd</sup> person and whether the subject is singular or plural. Verbs usually have a different form only in *third person singular of the present tense*.

→ *Examples:* *Singular*                      *Plural*

1<sup>st</sup> Person:    I stop.                                      They stop.

2<sup>nd</sup> Person:    You stop.                                      You stop.

3<sup>rd</sup> Person:    He/She/It stops. They stop.

**Voice** indicates whether the subject is the doer or the receiver of the action verb.

→ *Examples:* Cathy wrote the letter. (active voice)

The letter was written by Cathy. (passive voice)

**Tense** indicates when the action or state of being is taking place.

→ *Examples:* We *need* the information now. (present)

Reggie *shot* the ball. (past)

You *will enjoy* the school play. (future)

<b>ADVERB</b>	A WORD THAT DESCRIBES OR MODIFIES A VERB, AN ADJECTIVE, OR ANOTHER ADVERB. AN ADVERB TELLS HOW, WHEN, WHERE, WHY, HOW OFTEN, AND HOW MUCH.
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→ *Examples:* The ball rolled *slowly* around the rim. Soccer scores are reported *daily* in the newspaper.

<b>ADJECTIVE</b>	A WORD THAT DESCRIBES OR MODIFIES NOUNS AND PRONOUNS. ADJECTIVES SPECIFY COLOR, SIZE, NUMBER AND THE LIKE.
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→ *Examples:* red, large, three, gigantic, miniature  
Adjectives have three forms: **positive**, **comparative**, and **superlative**.

The **positive** form describes a noun or pronoun without comparing it to anything else.

→ *Example:* My apple pie is *good*.

The **comparative** form compares two things.

→ *Example:* Aunt Betty's apple pie is *better* than mine.

The **superlative** form compares three or more things.  
→ *Example:* Mom's apple pie is *the best* of all!

<b>PREPOSITION</b>	A WORD (OR GROUP OF WORDS) THAT SHOWS HOW A NOUN OR PRONOUN RELATES TO ANOTHER WORD IN A SENTENCE.
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→ *Examples:* The man walked *over* the gym.

The horse leaped *over* the fence.

Their team won the meet *in spite of* several players being injured.

<b>CONJUNCTION</b>	A WORD THAT JOINS INDIVIDUAL WORDS OR GROUPS OF WORDS.
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**Coordinating conjunctions** connect a word to a word, a clause to a clause, or a phrase to a phrase.

The sentence elements joined by a coordinating conjunction must be equal. Common coordinating conjunctions are *and, but, or, nor, for, yet, so*.

Coordinating conjunctions used in pps are called **correlative conjunctions**.

Common correlative conjunctions are: *either, or; neither, nor; not only, but also; both, and; whether, or*.

→ *Examples:* Both raccoons *and* squirrels frequently invade our bird feeders.

*Neither* Mary Ann *nor* Judy will be able to go with you.

**Subordinating conjunctions** connect and show the relationship between two clauses that are not equal in importance.

Common subordinate conjunctions are: *until, unless, since, where, before, as, if, when, although, after, because, while, as long as, as if, though, whereas*.

→ *Examples:* *Until* you decide to study, your grades won't improve.

*If* I hadn't already made plans, I would have enjoyed going to the mall with you.

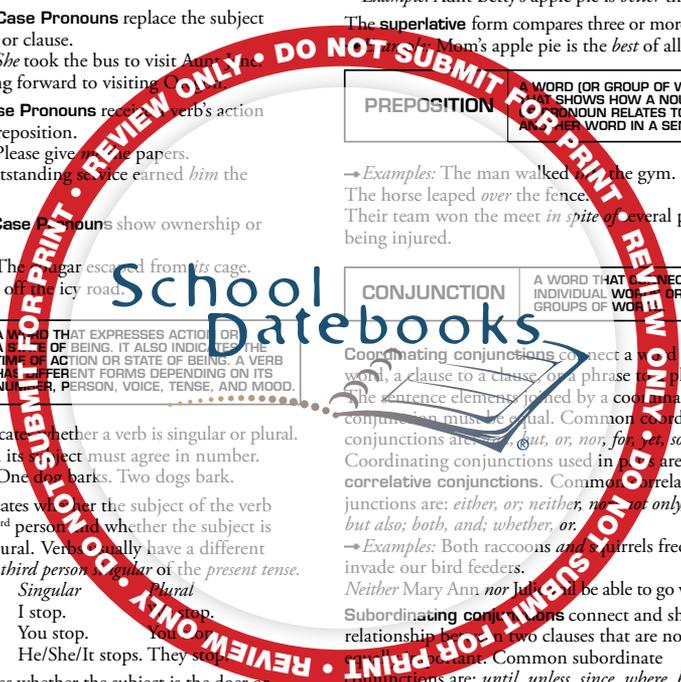
<b>INTERJECTION</b>	A WORD THAT IS USED IN A SENTENCE TO COMMUNICATE STRONG EMOTION OR SURPRISE. PUNCTUATION IS USED TO SEPARATE AN INTERJECTION FROM THE REST OF THE SENTENCE.
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→ *Examples:* *Hooray!* We finally scored a touchdown.

*Oh, no!* I forgot the picnic basket.

*Yes!* Her gymnastic routine was perfect.

*Ah*, we finally get to stop and rest.





# LANGUAGE ARTS *capitalization & plurals*

<b>CAPITALIZATION</b>	THE FOLLOWING CHART PROVIDES A QUICK OVERVIEW OF CAPITALIZATION RULES.
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All proper nouns → Shannon O'Connor, Orlando, Bill of Rights  
 All proper adjectives → Kraft cheese, Bounty paper towels, Phillips screwdriver  
 The first word in every sentence → Her dress is stunning.  
 Races, languages, nationalities → Asian, French, African-American  
 Nouns/Pronouns that refer to a supreme being → God, Allah, Yahweh  
 Days of the week → Sunday, Monday, Tuesday  
 Formal epithets → Ivan the Terrible  
 Bodies of water → Amazon River, Lake Huron, Wea Creek  
 Cities, towns → Houston, Lafayette, Dearborn  
 Counties → Tippecanoe, Cork  
 Countries → U.S.A, Mexico, Canada  
 Continents → Africa, North America  
 Landforms → Mojave Desert, the Appalachian Mountains  
 Holidays and holy days → Veterans Day, Christmas, Yom Kippur  
 Months → January, February  
 Official documents → Emancipation Proclamation  
 Official titles → President Obama, Mayor Bradley  
 Periods and events in history → Middle Ages, Renaissance  
 Planets, heavenly bodies → Mars, Jupiter, Milky Way  
 Public areas → Yellowstone National Park  
 Sections of a country or continent → the Northwest, the Middle East  
 Special events → Battle of Lexington  
 Streets, roads, highways → Red Deer Drive, Route 66, Interstate 65  
 Trade names → Honda Accord, Kellogg's Corn Flakes



<b>PLURALS</b>	THE FOLLOWING CHART PROVIDES A QUICK OVERVIEW OF PLURALIZATION RULES.
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The plurals of most nouns are formed by adding *s* to the singular.  
 → Examples: pictures = pictures | desk = desks | machine = machines

The plural forms of nouns ending in *s*, *sh*, *x*, *z* and *ch* are made by adding *es* to the singular.  
 → Examples: bus = buses | dish = dishes | fox = foxes | buzz = buzzes | church = churches

The plurals of common nouns that end in *y* preceded by a consonant are formed by changing the *y* to *i* and adding *es*.  
 → Examples: fly = flies | copy = copies

The plurals of words that end in *y* preceded by a vowel are formed by adding *ies*.  
 → Examples: holiday = holidays | monkey = monkeys

The plurals of words ending in *o* preceded by a vowel are formed by adding *s*.  
 → Examples: studio = studios | rodeo = rodeos

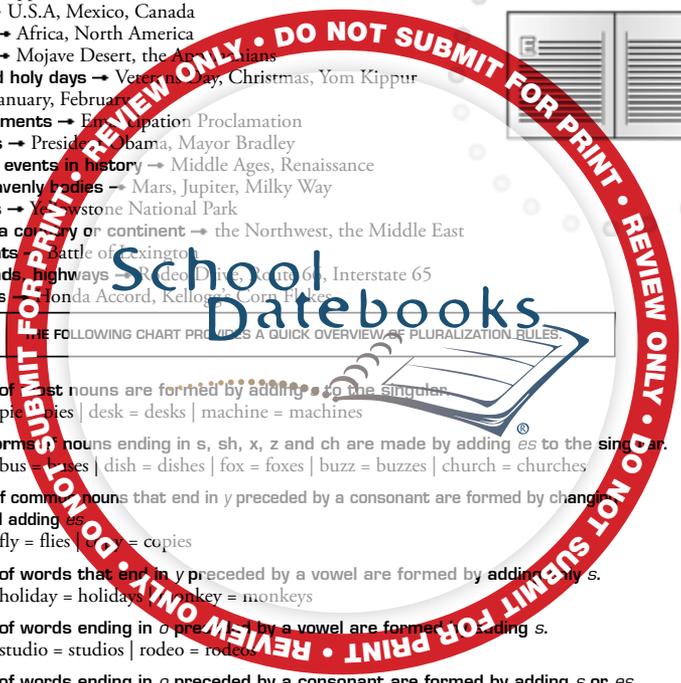
The plurals of words ending in *o* preceded by a consonant are formed by adding *s* or *es*.  
 → Examples: hero = heroes | banjo = banjos | tomato = tomatoes | piano = pianos

The plurals of nouns ending in *f* or *fe* are formed in one of two ways:  
 {1} If the *f* sound is still heard in the plural form, simply add *s*.  
 → Examples: roof = roofs | chief = chiefs  
 {2} If the final sound in the plural is a *v* sound, change the *f* to *ve* and add *s*.  
 → Examples: wife = wives | knife = knives

Foreign words and some English words form the plural by taking on an irregular spelling.  
 → Examples: crisis = crises | criterion = criteria | goose = geese | ox = oxen

The plurals of symbols, letters, and figures are formed by adding an *s*.  
 → Examples: 5 = 5s

The plural of nouns that end in *ful* are formed by adding *s* at the end of the word.  
 → Examples: handful = handfuls | pailful = pailfuls | tankful = tankfuls





# LANGUAGE ARTS *sentence structure & spelling rules*

## SENTENCE STRUCTURE

A **complete sentence** must express a complete thought and must have a subject and a verb.

→ *Example:* He lost the game.

A **sentence fragment** results from a *missing* subject, verb or complete thought.

→ *Example:* Because he was lost.

THERE ARE FOUR TYPES OF SENTENCES: SIMPLE, COMPOUND, COMPLEX, OR COMPOUND-COMPLEX

A **simple sentence** consists of one main clause. It expresses one main thought and has one subject and one verb. A simple sentence may contain a compound subject, compound verb, or both.

→ *Examples:* We enjoyed the concert.

Amy and Scott were married yesterday. (compound subject)

Ben is leaving work and going home. (compound verb: leaving, going)

A **compound sentence** contains two or more main clauses (in italics) connected by a conjunction, a semicolon, or a comma with a conjunction.

→ *Examples:* I'd like to be double-major, but the workload would be too overwhelming. (conjunction)

Andy's suit looks great; it just got back from the cleaners. (semicolon)

Erin came home for Easter, and Courtney went to Florida. (comma/conjunction)

A **complex sentence** has one main clause (in italics) and one or more subordinate clauses (underlined).  
→ *Example:* Dad says that good grades are the result of diligent studying. (main clause, independent clause)

Diligent studying is difficult because I have to work several hours before I can start studying. (main clause, dependent clause)

A **compound-complex sentence** has two or more main clauses (in italics) and one or more subordinate clauses (underlined).

→ *Examples:* Because the bus broke down, the team rode in a van, and the cheerleaders rode in cars. Unless my eyes are deceiving me, Kristi is on that runaway horse, and Dale is behind her.

## SPELLING RULES

Write *i* before *e* except after *c*, or when sounded like *a* as in *weigh* and *eight*.

→ *Exceptions:* seize, weird, either, leisure, neither

When the *ie/ei* combination is not pronounced *ee*, it is usually spelled *ei*.

→ *Examples:* reign, weigh, neighbor

→ *Exceptions:* friend, view, mischief, fiery

When a multi-syllable word ends in a consonant preceded by one vowel, the accent is on the last syllable and the suffix begins with *or* *al* — the same rule holds true when you double the final consonant.

→ *Examples:* prefer = preferred | allot = allotted | control = controlling

If a word ends with a silent *e*, drop the *e* before adding a suffix that begins with a vowel.

→ *Examples:* use = using | like = liking | state = stating | love = loving

When the suffix begins with a consonant, do not drop the *e*.

→ *Examples:* use = useful | state = statement | nine = ninety

→ *Exceptions:* argument, judgment, truly, ninth

When *y* is the last letter in a word and the *y* is preceded by a consonant, change the *y* to *i* before adding any suffix except those beginning with *i*.

→ *Examples:* lady = ladies | try = tries | happy = happiness | ply = pliable | fly = flying



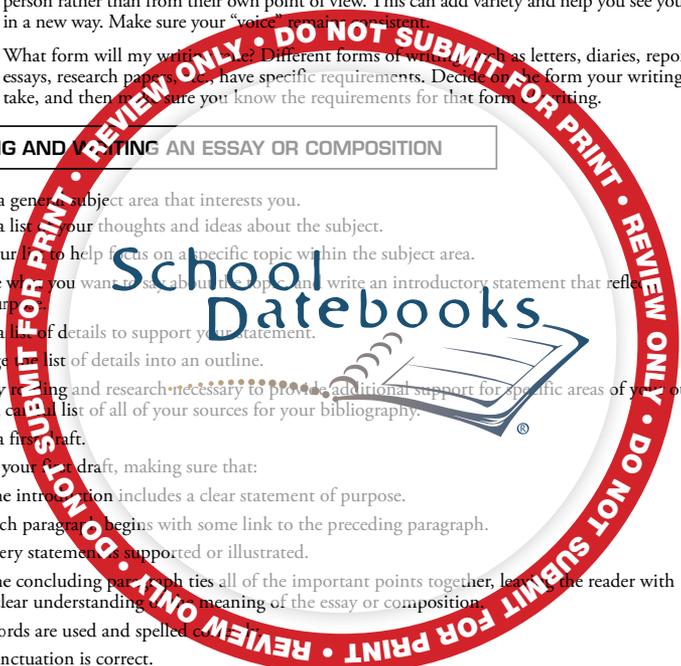
# LANGUAGE ARTS *the writing process*

<b>WRITING VARIABLES</b>	<b>BEFORE BEGINNING ANY ASSIGNMENT, IT WILL HELP YOU TO FOCUS AND REMAIN CONSISTENT IN STYLE IF YOU CONSIDER THE FOLLOWING VARIABLES.</b>
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- Audience** For whom am I writing? A letter written to your ten-year-old sister will be much different in vocabulary, subject, content, format, and sentence complexity than one written to your senator.
- Topic** About what subject should I write? If possible, choose a subject that interests you. Research your subject well.
- Purpose** Why am I writing? Have a clear purpose in mind before starting your paper. Are you writing to entertain, instruct, inform, or persuade? Keeping your purpose in mind as you write will result in a paper that is focused and consistent.
- Voice** What point of view or “voice” will I use? Writers sometimes write from the point of view of another person rather than from their own point of view. This can add variety and help you see your subject in a new way. Make sure your “voice” remains consistent.
- Format** What form will my writing take? Different forms of writing, such as letters, diaries, reports, essays, research papers, etc., have specific requirements. Decide on the form your writing will take, and then be sure you know the requirements for that form of writing.

## PLANNING AND WRITING AN ESSAY OR COMPOSITION

- {1} Select a general subject area that interests you.
- {2} Make a list of your thoughts and ideas about the subject.
- {3} Use your list to help focus on a specific topic within the subject area.
- {4} Decide what you want to say about the topic and write an introductory statement that reflects this purpose.
- {5} Make a list of details to support your statement.
- {6} Arrange the list of details into an outline.
- {7} Do any reading and research necessary to provide additional support for specific areas of your outline. Keep a careful list of all of your sources for your bibliography.
- {8} Write a first draft.
- {9} Revise your first draft, making sure that:
  - (a) The introduction includes a clear statement of purpose.
  - (b) Each paragraph begins with some link to the preceding paragraph.
  - (c) Every statement is supported or illustrated.
  - (d) The concluding paragraph ties all of the important points together, leaving the reader with a clear understanding of the meaning of the essay or composition.
  - (e) Words are used and spelled correctly.
  - (f) Punctuation is correct.
- {10} Read your revised paper aloud to check how it sounds.
- {11} Proofread your revised paper two times: once for spelling, punctuation, and word usage, and again for meaning and effectiveness.





# LANGUAGE ARTS *punctuation*



**PERIOD** ●

**Use:** to end a sentence that makes a statement or that gives a command not used as an exclamation.

→ *Example:* Wash the dishes, and then take out the garbage.

**Use:** after an initial or an abbreviation.

→ *Examples:* Mary J. Jones, Mr., Mrs., Ms.

**COMMA** ,

**Use:** to separate words or groups of words in a series.

→ *Example:* I used *worms, minnows, larvae, and balls, and bacon* for bait.

*Note:* Some stylebooks and instructors require a comma before “and” in a series.

→ *Example:* He *ran, jumped, and yelled.*

**Use:** to separate an explanatory phrase from the rest of the sentence.

→ *Example:* Escargots, *or snails,* are a delicacy that I relish.

**Use:** to distinguish items in a series and in a date.

→ *Examples:* John Doe, 290 Main St. Middletown, CT 06450

September 20, 2010

**Use:** to separate a title or an initial that follows a name.

→ *Example:* Joseph Jones, Ph.D.

**QUESTION MARK** ?

**Use:** at the end of a direct or indirect question.

→ *Example:* Did your relatives invite you to visit them this summer?

**Use:** to punctuate a short question within parentheses.

→ *Example:* I am leaving tomorrow (is that possible?) to visit my cousins in France.

**APOSTROPHE** ’

**Use:** to show that one or more letters or numbers have been left out of a word to form a contraction.

→ *Examples:* do not = don’t | I have = I’ve

**Use:** followed by an *s* is the possessive form of singular nouns.

→ *Example:* I clearly saw this young *man’s* car run that stop sign.

**Use:** possessive form of plural nouns ending in *s* is usually made by adding just an apostrophe. An apostrophe and *s* must be added to nouns not ending in *s*.

→ *Example:* bosses = bosses’, children’s

**COLON** :

**Use:** after words introducing a list, quotation, question, or example.

→ *Example:* Sarah dropped her book bag and out spilled everything: books, pens, pencils, homework, and makeup.

**SEMICOLON** ;

**Use:** to join compound sentences that are not connected with a conjunction.

→ *Example:* It’s elementary, my dear Watson; the butler is clearly responsible.

**Use:** to separate groups of words.

→ *Example:* I packed a t-shirt, deodorant, and perfume; jeans, a raincoat, and sweatshirts; and boots and tennis shoes.

**QUOTATION MARKS** “ ”

**Use:** to frame direct quotations in a sentence. Only the exact words quoted are placed within the quotation marks.

→ *Example:* “I don’t know,” she said, “it will be able to help my translation.”

**Use:** to distinguish a word that is being discussed.

→ *Example:* Mr. Jones suggested I replace the word “always” with “often” in my theme.

**Use:** to indicate that a word is slang.

→ *Example:* Julie only bought that outfit to show that she’s “with it.”

**Use:** to punctuate titles of poems, short stories, songs, lectures, course titles, chapters of books, and articles found in magazines, newspapers, and encyclopedias.

→ *Examples:* “You Are My Sunshine,” “Violence in Our Society,” “The Road Not Taken”

**QUOTATION MARK** “ ”

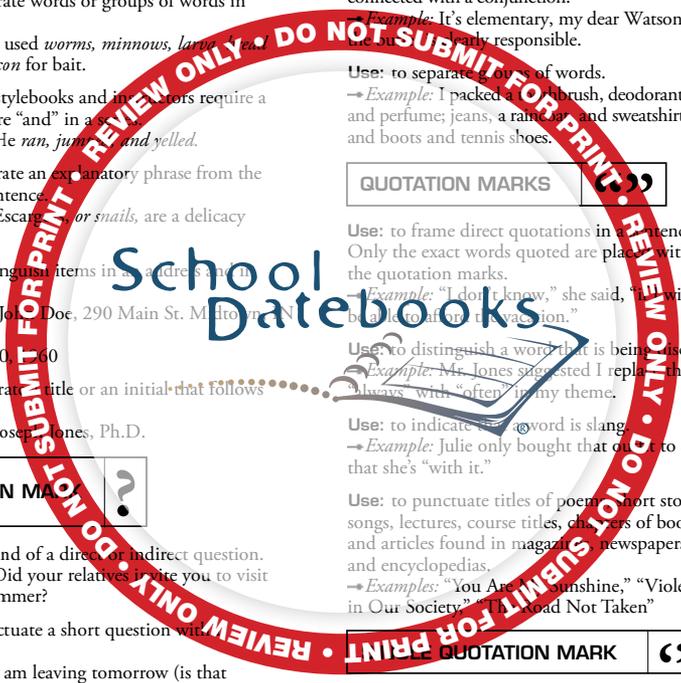
**Use:** to punctuate a quotation within a quotation.

→ *Example:* “As a child, my favorite movie was ‘Wizard of Oz,’” answered Joe.

**EXCLAMATION MARK** !

**Use:** to express strong feeling.

→ *Example:* Help! Help!





# LANGUAGE ARTS *frequently confused words*



**accept** | to agree to something or receive something willingly  
**except** | not including  
 → *Examples:* Jonathon will *accept* the job at the restaurant.  
 Everyone was able to attend the ceremony *except* Phyllis.

**capital** | chief, important, excellent. Also the city or town that is the official seat of government of a state or nation

**capitol** | the building where a state legislature meets  
**the Capitol** | the building in Washington, D.C., in which the United States Congress meets  
 → *Examples:* The *capital* of France is Paris.  
 The *capitol* of Indiana is a building in Indianapolis.  
 The vice president arrived at the *Capitol* to greet the arriving senators.

**hear** | to listen to  
**here** | in this place

→ *Examples:* Do you *hear* that strange sound?  
 The juice is right *here* in the refrigerator.

**it's** | the contraction for *it is* or *it has*  
**its** | shows ownership or possession

→ *Examples:* *It's* nearly time to leave for the football game.  
 The wagon lost a wheel in the mud.

**lead** | a heavy, gray metal

**lead** | to go first, guide

**led** | the past tense of *lead*

→ *Examples:* Water pipes in many older homes are made of *lead*.  
 This path will *lead* us to the waterfall.  
 Bloodhounds *led* the police to the hideout.

**loose** | free or not attached

**lose** | to misplace or suffer the loss of something  
 → *Examples:* Since she *lost* weight, many of her clothes are *loose*.

If you *lose* your money, you will not be able to get into the park.

**principal** | the first or most important. Also refers to the head of a school.

**principle** | a rule, truth, or belief

→ *Examples:* Pineapple is one of the *principal* crops of Hawaii.

One *principle* of science is that all matter occupies space.

**quiet** | free from noise

**quite** | truly or almost completely

→ *Examples:* Dorm policy states residents must be *quiet* after 10:00 p.m. on weeknights.  
 This enchilada is *quite* spicy.

**their** | belonging to them

**there** | at that place

**they're** | the contraction for *they are*

→ *Examples:* *Their* new puppy is frisky.  
 Please place all of the newspapers over *there*.  
*They're* coming over tonight.

**to** | in the direction of

**too** | also or very

**two** | the whole number between one and three

→ *Examples:* The paramedics

rushed to the scene of the accident.

This meal is delicious, and it is low in fat, *too*.

Only *two* of the 10 runners were able to complete the race.

**weather** | the state of the atmosphere referring to wind, moisture, temperature, etc.

**whether** | a choice or alternative

→ *Examples:* We are hoping for warm, sunny *weather* for our family vacation.

We cannot decide *whether* we will drive or fly to the reunion.

**Who's** | the contraction for *who is* or *who has*

**Whose** | the possessive form of *who*

→ *Examples:* *Who's* in charge of the fighting for the stage?

*Whose* bicycle is out in the rain?

**you're** | the contraction for *you are*

**your** | the possessive form of *you*

→ *Examples:* She called to ask if *you're* planning to attend the party.

*Your* term paper will be due four weeks from today.

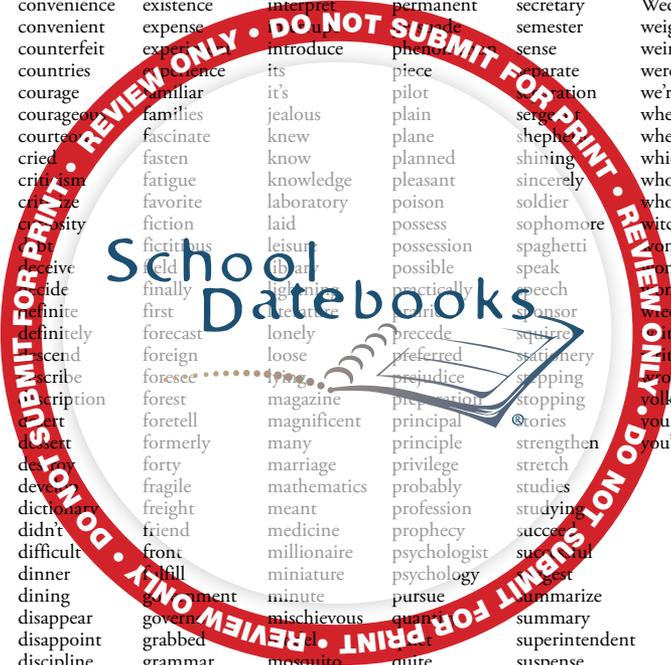
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# LANGUAGE ARTS *frequently misspelled words*

absence	climbing	equipped	hungry	opportunity	reservoir	trouble
absorb	clothes	escape	identify	opposite	restaurant	truly
accept	colonel	especially	imagine	original	rhyme	two
accidentally	college	etc.	immediate	other	rhythm	unique
accompany	column	everybody	immediately	pageant	ridiculous	until
accuse	commercial	everywhere	immensely	pamphlet	running	unusual
ache	committee	exaggerate	incident	parallel	safety	usually
achieve	completely	exceed	independent	parents	Saturday	vaccinate
acquaintance	concentrate	excellence	Indian	parliament	scent	vacuum
acquire	conscientious	excellent	innocent	particular	schedule	vegetable
affect	conscious	except	instead	passed	scissors	village
afraid	continue	excitement	intelligence	peculiar	search	villain
against	continuous	exciting	intelligent	perform	secret	weather
aggression	convenience	existence	interpret	permanent	secretary	Wednesday
aggressive	convenient	expense	introduce	phenomenon	semester	weight
all right	counterfeit	export	its	piece	sense	weird
a lot	countries	experience	it's	pilot	separate	were
already	courage	familiar	jealous	plain	separation	we're
always	courageous	families	knew	plane	sergeant	where
amateur	courtroom	fascinate	know	planned	shepherd	whether
ambition	cried	fasten	knowledge	pleasant	shining	which
among	criticism	fatigue	laboratory	poison	sincerely	whole
apology	criticize	favorite	laid	possess	soldier	whose
apparent	crisis	fiction	leisure	possession	sophomore	witch
appearance	critic	fictitious	librarian	possible	spaghetti	woman
appreciate	decide	field	lightning	practically	speak	wonderful
arctic	definite	finally	retreat	prefer	speech	week
argument	definitely	first	lonely	precede	sponsor	which
article	descend	forecast	loose	preferred	squire	living
associate	describe	foreign	magazine	prejudice	stationery	written
athlete	description	foresee	magnificent	preparation	stopping	wrote
attendance	desert	forest	many	principal	stories	your
attitude	destroy	foretell	marriage	principle	strengthen	you're
author	develop	forty	mathematics	privilege	stretch	
awful	dictionary	fragile	meant	probably	studies	
beautiful	didn't	freight	medicine	profession	studying	
beauty	difficult	friend	millionaire	prophecy	success	
because	dinner	front	miniature	psychologist	successful	
beginning	dining	fill	minute	psychology	test	
believe	disappear	government	mischievous	pursue	summarize	
benefit	disappoint	grabbed	mosquito	quantity	summary	
bicycle	discipline	grammar	narrative	quite	superintendent	
biscuit	discussion	grateful	necessary	raspberry	suspense	
boundary	disease	guarantee	neighbor	realize	suspicion	
Britain	dissatisfy	guard	nervous	really	swimming	
brilliance	doctor	guess	niece	receive	synagogue	
brilliant	does	guest	nineteen	receiving	temperament	
bureau	doesn't	handsome	ninety	recess	themselves	
business	dropping	happen	notice	recognize	there	
captain	during	happiest	noticeable	recommend	therefore	
career	easier	happily	nuisance	reference	they	
carrying	easiest	happiness	obedience	referring	they're	
cemetery	easily	hear	occasion	rein	thief	
chief	effect	height	occur	reign	thoroughly	
children	either	here	occurred	relative	thought	
chocolate	embarrass	history	occurrence	relief	through	
chosen	enough	hoping	occurring	religion	tobacco	
Christian	entertain	hospital	often	remember	together	
cinnamon	envelope	humor	opinion	repetition	tomorrow	
climbed	equipment	humorous		repellent	tragedy	
					tried	





# LANGUAGE ARTS *outlining*

<b>OUTLINING</b>	OUTLINES CAN HELP YOU ORGANIZE YOUR IDEAS. YOU MIGHT USE AN OUTLINE TO PLAN A SPEECH, COMPOSITION, OR TERM PAPER. YOU ALSO MIGHT USE AN INFORMAL OUTLINE TO TAKE NOTES.
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## formal

A **formal outline** lists the main points of a topic and shows the relative importance of each and the order in which these points are presented. It also shows the relationships among them.

*Formal Outline Format:*

- I.
  - A.
  - B.
    - 1.
    - 2.
      - a.
      - b.
        - (1)
        - (2)
          - (a)
          - (b)

No new subdivisions should be started unless there are at least two points to be listed in the new division. This means that each *I* must have a *2*; each *a* must have a *b*. Formal outlines may be either a **sentence outline** or a **topic outline**.

A **sentence outline** uses a complete sentence for each point and subpoint. A **topic outline** uses words or phrases for each point and subpoint.

## informal

An **informal outline** uses as few words as possible. Supporting details are written below each heading. Numerals, letters, or dashes may be used. Informal outlines are especially useful for taking notes.

→ Here is an example of a informal outline.

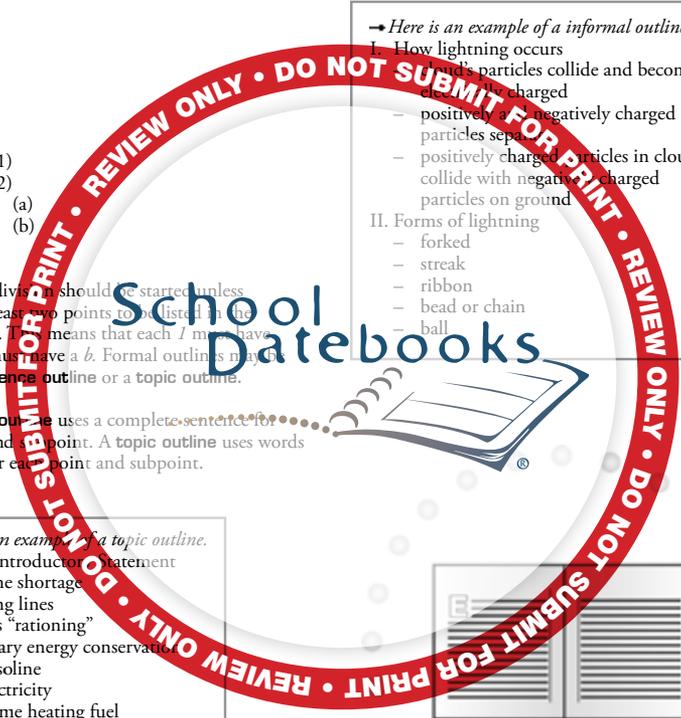
- I. How lightning occurs
  - clouds particles collide and become electrically charged
  - positively & negatively charged particles separate
  - positively charged particles in cloud collide with negatively charged particles on ground
- II. Forms of lightning
  - forked
  - streak
  - ribbon
  - bead or chain
  - ball

→ Here is an example of a topic outline.

Thesis or Introductory Statement

- I. Gasoline shortage
  - A. Long lines
  - B. Gas "rationing"
- II. Voluntary energy conservation
  - A. Gasoline
  - B. Electricity
  - C. Home heating fuel
- III. Forced energy conservation
  - A. Fuel allocation
  - B. Speed limit
  - C. Airline flights
  - D. Christmas lighting

Conclusion





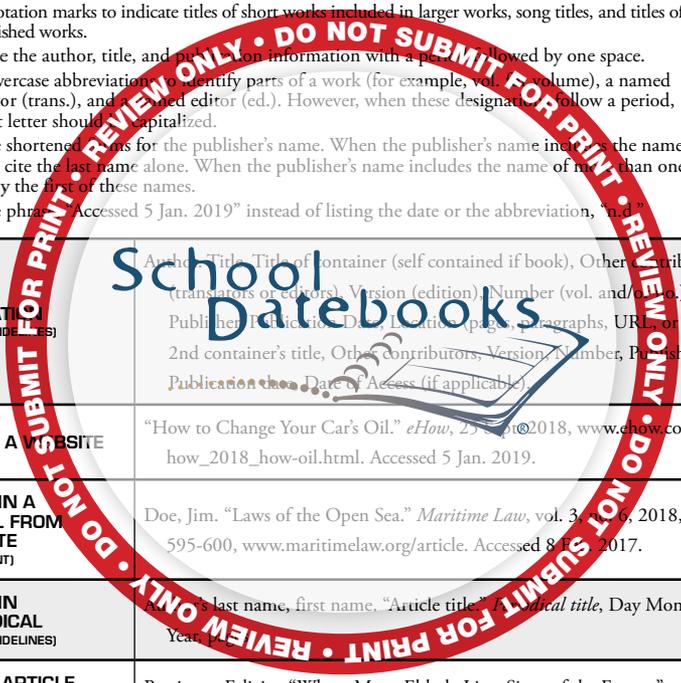
# LANGUAGE ARTS *MLA style of documentation*

<b>YOUR WORKS-CITED LIST</b>	Your works-cited list should appear at the end of your essay. It provides the information necessary for a reader to locate and retrieve any source you cite in the essay. Each source you cite in the essay must appear in your works-cited list; likewise, each entry in the works-cited list must be cited in the text.
------------------------------	---

According to the *Modern Language Association Handbook for Writers of Research Papers, 9th edition*:

- {1} Double-space all entries.
- {2} Begin the first line of an entry flush with the left margin, and indent lines that follow by one-half inch.
- {3} List entries in alphabetical order by the author's last name. If you are listing more than one work by the same author, alphabetize the works according to title. Instead of repeating the author's name, type three hyphens followed by a period, and then give the title.
- {4} Italicize the titles of works published independently. Books, plays, long poems, pamphlets, periodicals, and films are all published independently.
- {5} If the title of a book you are citing includes the title of another book, italicize the main title but not the other title.
- {6} Use quotation marks to indicate titles of short works included in larger works, song titles, and titles of unpublished works.
- {7} Separate the author, title, and publication information with a period, followed by one space.
- {8} Use lowercase abbreviations to identify parts of a work (for example, vol. and volume), a named translator (trans.), and a named editor (ed.). However, when these designations follow a period, the first letter should be capitalized.
- {9} Use the shortened forms for the publisher's name. When the publisher's name includes the name of a person, cite the last name alone. When the publisher's name includes the name of more than one person, cite only the first of these names.
- {10} Use the phrase "Accessed 5 Jan. 2019" instead of listing the date or the abbreviation, "n.d."

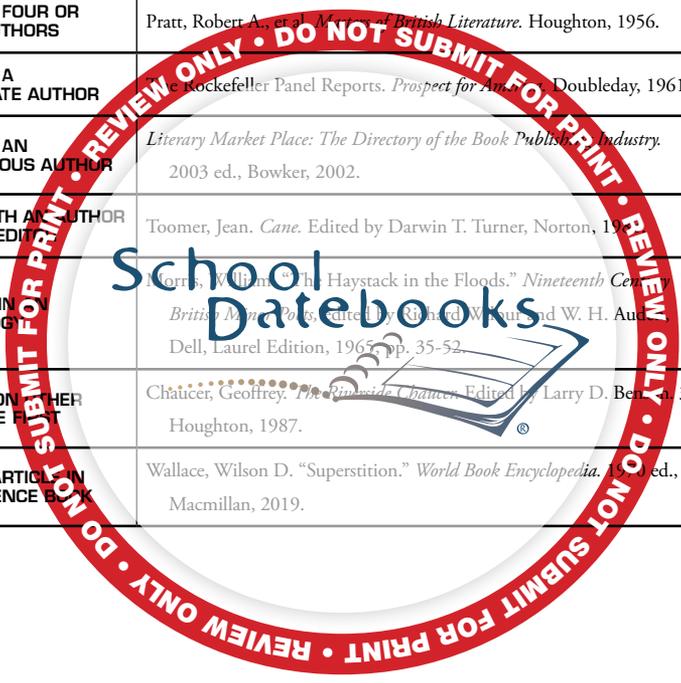
<b>ANY CITATION</b> (GENERAL GUIDELINES)	Author, Title, Title of container (self contained if book), Other contributors (translators or editors), Version (edition), Number (vol. and/or no.), Publisher, Publication Date, Citation (pages, paragraphs, URL, or DOI), 2nd container's title, Other contributors, Version, Number, Publisher, Publication Date, Date of Access (if applicable)
<b>PAGE ON A WEBSITE</b>	"How to Change Your Car's Oil." <i>eHow</i> , 25 Sept. 2018, www.ehow.com/how_2018_how-oil.html. Accessed 5 Jan. 2019.
<b>ARTICLE IN A JOURNAL FROM A WEBSITE</b> (ALSO IN PRINT)	Doe, Jim. "Laws of the Open Sea." <i>Maritime Law</i> , vol. 3, no. 6, 2018, pp. 595-600, www.maritimelaw.org/article. Accessed 8 Feb. 2017.
<b>ARTICLE IN A PERIODICAL</b> (GENERAL GUIDELINES)	Author's last name, first name. "Article title." <i>Periodical title</i> , Day Month Year.
<b>BYLINED ARTICLE FROM A DAILY NEWSPAPER</b>	Barringer, Felicity. "Where Many Elderly Live, Signs of the Future." <i>New York Times</i> , 7 Mar. 2018, p. A12.
<b>UNBYLINED ARTICLE FROM A DAILY NEWSPAPER</b>	"Infant Mortality Down; Race Disparity Widens." <i>Washington Post</i> , 12 Mar. 2018, p. A12.
<b>ARTICLE FROM A MONTHLY OR BIMONTHLY MAGAZINE</b>	Willis, Garry. "The Words that Remade America: Lincoln at Gettysburg." <i>Atlantic</i> , June 2019, pp. 57-79.
<b>ARTICLE FROM A WEEKLY OR BIWEEKLY MAGAZINE</b>	Hughes, Robert. "Futurism's Farthest Frontier." <i>Time</i> , 9 July 2019, pp. 58-59.
<b>EDITORIAL</b>	"A Question of Medical Sight." Editorial. <i>Plain Dealer</i> , 11 Mar. 2019, p. 6B.





# LANGUAGE ARTS *MLA style of documentation*

<b>BOOK</b> (GENERAL GUIDELINES)	Author's last name, first name. <i>Book title</i> . Publisher, publication date.
<b>BOOK BY ONE AUTHOR</b>	Wheelen, Richard. <i>Sherman's March</i> . Crowell, 1978.
<b>TWO OR MORE BOOKS BY THE SAME AUTHOR</b>	Garreau, Joel. <i>Edge City: Life on the New Frontier</i> . Doubleday, 1991. ---. <i>The Nine Nations of North America</i> . Houghton, 1981.
<b>BOOK BY TWO OR THREE AUTHORS</b>	Purves, Alan C., and Victoria Rippere. <i>Elements of Writing About a Literary Work</i> . NCTE, 1968.
<b>BOOK BY FOUR OR MORE AUTHORS</b>	Pratt, Robert A., et al. <i>Myths of British Literature</i> . Houghton, 1956.
<b>BOOK BY A CORPORATE AUTHOR</b>	Rockefeller Panel Reports. <i>Prospect for America</i> . Doubleday, 1961.
<b>BOOK BY AN ANONYMOUS AUTHOR</b>	<i>Literary Market Place: The Directory of the Book Publishing Industry</i> . 2003 ed., Bowker, 2002.
<b>BOOK WITH AN AUTHOR AND AN EDITOR</b>	Toomer, Jean. <i>Cane</i> . Edited by Darwin T. Turner, Norton, 1997.
<b>A WORK IN AN ANTHOLOGY</b>	Morris, William. "The Haystack in the Floods." <i>Nineteenth Century British Men of Letters</i> , edited by Richard W. Sewall and W. H. Auden. Dell, Laurel Edition, 1967, pp. 35-52.
<b>AN EDITION OTHER THAN THE FIRST</b>	Chaucer, Geoffrey. <i>The Riverside Chaucer</i> . Edited by Larry D. Benson. 3rd ed., Houghton, 1987.
<b>SIGNED ARTICLE IN A REFERENCE BOOK</b>	Wallace, Wilson D. "Superstition." <i>World Book Encyclopedia</i> . 1970 ed., vol. 2, Macmillan, 2019.





# LANGUAGE ARTS *APA style of documentation*

## YOUR REFERENCE LIST

YOUR REFERENCE LIST SHOULD APPEAR AT THE END OF YOUR ESSAY. IT PROVIDES THE INFORMATION NECESSARY FOR A READER TO LOCATE AND RETRIEVE ANY SOURCE YOU CITE IN THE ESSAY. EACH SOURCE YOU CITE IN THE ESSAY MUST APPEAR IN YOUR REFERENCE LIST. LIKEWISE, EACH ENTRY IN THE REFERENCE LIST MUST BE CITED IN THE TEXT.

## BASIC RULES

According to the seventh edition of the *Publication Manual of the American Psychological Association*:

- Indent your reference list one-half inch from the left margin, excluding the first line of each reference, which should remain flush left. This is called a hanging indent.
- Double-space all references.
- Capitalize only the first word of a title or subtitle of a work. Capitalize all major words in journal titles. Italicize titles of books and journals. Note that the italicizing in these entries includes commas and periods.
- Invert authors' names (last name first); give last name and initials for all authors of a particular work, unless the work has more than six authors (in this case, list the first six authors and then use et al. after the sixth author's name to indicate the rest of the authors). Arrange by authors' last names letter by letter. If you have more than one work by a particular author, order them by publication date, oldest to newest (thus a 2014 article would appear before a 2015 article). When an author appears as a sole author and again as the first author of a group, list the one-author entries first. If no author is given for a particular source, alphabetize by the title of the piece in the reference list. Use a shortened version of the title for parenthetical citations within the text.
- Use "&" instead of "and" before the last author's name when listing multiple authors of a single work.

## BASIC FORMS FOR SOURCES IN PRINT

An article in a periodical (such as a journal, newspaper, or magazine)

- Author, A. A., Author, B. B., & Author, C. C. (Year of publication, month day). Title of article. *Title of periodical*, volume number, issue number, pages.
- You need to list only the volume number if the journal has continuous pagination throughout a particular volume. If each issue begins with page 1, then you should list the issue number as well. → Title of Periodical, volume number (issue number), pages.

A nonperiodical (such as a book, report, brochure, or audiovisual media)

- Author, A. A. (Year of publication). Title of work: Capital letter also for title. (Edition). Publisher. Do not include the location of the publisher in the citation.

Part of a nonperiodical (such as a book chapter or an article in a collection)

- Author, A. A., & Author, B. B. (Year of publication). Title of chapter. In A. Editor & B. Editor (Eds.), *Title of book*, pages of chapter. Publisher.
- When you list the pages of the chapter or essay in parentheses after the book title, use "pp." before the numbers: (pp. 1-21). This abbreviation, however, does not appear before the page numbers in periodical references, except for newspapers.

## BASIC FORMS FOR ELECTRONIC SOURCES

A web page

- Author, A. A. (Date of publication or revision). Title of page. Site name. URL

An online journal or magazine

- Author, A. A., & Author, B. B. (Date of publication). Title of article. *Title of journal*, volume number (issue number), page range. doi:00000000/000000000000

Since online materials can potentially change URLs, APA recommends providing a Digital Object Identifier (DOI), when it is available, as opposed to the URL. DOIs are unique to their documents and consist of a long alphanumeric code.

An online journal or magazine (with no DOI assigned)

- Author, A. A., & Author, B. B. (Date of publication). Title of article. *Title of journal*, volume number (issue number), page range. URL

E-mail

Because e-mail is a personal communication, not easily retrieved by the general public, no entry should appear in your reference list. Instead, parenthetically cite in text the communicator's name, the fact that it was personal communication, and the date of the communication: The novelist has repeated this idea recently (S. Rushdie, personal communication, May 1, 2015).



# LANGUAGE ARTS *APA style of documentation*



## EXAMPLES

### Journal article, one author

→ Harlow, H. F. (1983). Fundamentals for preparing psychology journal articles.

*Journal of Comparative and Physiological Psychology*, 55, 893-896.

### Journal article, more than one author

→ Kernis, M. H., Cornell, D. P., Sun, C. R., Berry, A., & Harlow, T. (1993). There's more to self-esteem than whether it is high or low: The importance of stability of self-esteem. *Journal of Personality and Social Psychology*, 65, 1190-1204.

### Work discussed in a secondary source

→ Coltheart, M., Curtis, B., Atkins, P., & Haller, M. (1993). Models of reading aloud: Dual-route and parallel-distributed-processing approaches. *Cognition*, 100, 589-608.

Give the secondary source in the reference list. In the text, name the original work and give a citation for the secondary source. For example, if Seidenberg and McClelland's work is cited in Coltheart et al. and you did not read the original work, list the Seidenberg et al. reference in your reference list. In the text, use the following citation:

→ In Seidenberg and McClelland's study (as cited in Coltheart, Curtis, Atkins, & Haller, 1993), ...

### Magazine article, one author

→ Henry, W. A., III. (1990, April 9). Making the grade in today's schools. *Time*, 135, 28.

### Book

→ Calfee, R. C., & Valencia, R. R. (1991). *APA guide to preparing manuscripts for journal publication*. American Psychological Association.

### An article or chapter of a book

→ O'Neil, J. M., & Egan, J. (1992). Men's and women's gender role attitudes androphor for hearing, transcending, and transformation. In B. R. Wainrib (Ed.), *Gender issues across the life cycle* (pp. 101-123). Springer.

### A government publication

→ National Institute of Mental Health. (1990). *Clinical training in serious mental illness* (DHHS Publication No. ADM 90-1679). U.S. Government Printing Office.

### A book or article with no author or editor named

→ *Merriam-Webster's collegiate dictionary* (11th ed.). (2005). Merriam-Webster.

→ New drug appears to reduce risk of death from heart failure. (1993, July 15). *The Washington Post*, p. A12. For parenthetical citations of sources in text with no author named, use a shortened version of the title instead of an author's name. Use quotation marks and italics as appropriate. For example, parenthetical citations of the two sources above would appear as follows: (Merriam-Webster's, 2005) and ("New Drug," 1993).

### A translated work and/or a republication

→ Laplace, P. S. (1951). *A philosophical essay on probability* (L. J. W. Truscott & F. L. Emory, Trans.). Dover. (Original work published 1814).

### A review of a book, film, television program, etc.

→ Baumeister, R. F. (1993). Exposing the self-knowledge myth [Review of the book *The self-knower: A hero under control*]. *Contemporary Psychology*, 38, 466-467.

### An entry in an encyclopedia

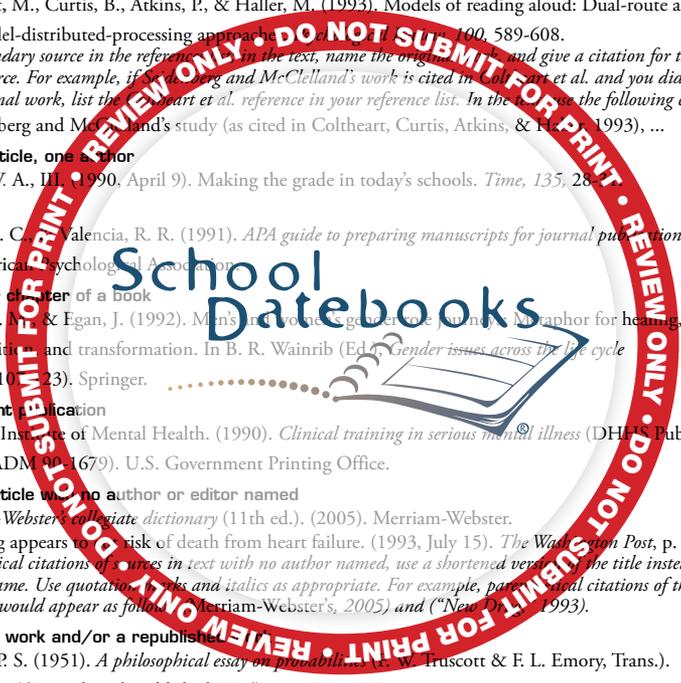
→ Bergmann, P. G. (1993). Relativity. In *The new encyclopaedia britannica* (Vol. 26, pp. 501-508). Encyclopaedia Britannica.

### An online journal article (no DOI assigned)

→ Kenneth, I. A. (2000). A Buddhist response to the nature of human rights. *Journal of Buddhist Ethics*, 8. <http://www.buddhistethics.org/2/inada1>

### A web page

→ Daly, B. (1997). *Writing argumentative essays*. <http://www.ltn.lv/~markir/essaywriting/frntpage.htm>









# SCIENCE *physics laws & formulas*

## Mass Density

$$\text{mass density} = \frac{\text{mass}}{\text{volume}}$$

## Speed

$$\text{average speed} = \frac{\text{distance covered}}{\text{elapsed time}}$$

## Acceleration

$$a = \frac{\Delta v}{\Delta t} \quad \text{or} \quad \frac{v_f - v_i}{t_f - t_i}$$

(a=average acceleration; v=velocity;  
t=time;  $v_f$ =final velocity;  $v_i$ =initial velocity;  
 $t_f$ =final time;  $t_i$ =initial time)

## Law of Universal Gravitation

$$F = G \frac{m_1 m_2}{d^2}$$

(F=force of attraction;  $m_1$  and  $m_2$ =the masses of the two bodies; d=distance between the centers of  $m_1$  and  $m_2$ ;  
G=gravitational constant)

## Work Done by a Force

$$\text{work} = (\text{force})(\text{distance})$$

## Power

$$\text{power} = \frac{\text{work}}{\text{time}} \quad (\text{see above formula for work})$$

## Kinetic Energy

$$KE = \frac{mv^2}{2}$$

(KE=kinetic energy; m=mass; v=velocity)

## Specific Heat

$$Q = cm\Delta t$$

(Q=quantity of heat; c=specific heat;  
m=mass;  $\Delta t$ =change in temperature)

## Electric Current (Strength)

$$I = \frac{Q}{t}$$

(I=the current strength; Q=quantity of charge;  
t=time)

## Momentum

$$\text{momentum} = (\text{mass})(\text{velocity})$$

## Mass-Energy Equivalence

$$E = mc^2$$

(E=the energy [measured in ergs] equivalent to a mass m [measured in grams]; c=speed of light [measured in centimeters per second])

## Power Expended in an Electric Appliance

$$P = IV$$

(P=power in watts; I=current; V=voltage)

## Newton's Second Law of Motion

$$\text{force} = (\text{mass})(\text{acceleration})$$

## Torque

$$T = FR$$

(T=torque; F=force; R=radius)

## Boyle's Law when temperature constant:

$$p_1 V_1 = p_2 V_2$$

( $p_1$ =original pressure;  $p_2$ =new pressure;  
 $V_1$ =original volume;  $V_2$ =new volume)

## Wave Motion

$$V = n\lambda$$

(V=wave velocity; n=wave frequency;  
 $\lambda$ =wavelength)

## Illumination of a Surface Perpendicular to the Luminous Flux

$$E = \frac{I}{r^2}$$

(E=illumination; I=intensity of the source;  
r=distance from source to surface perpendicular to the beam)

## Focal Length of Mirrors and Lenses

$$\frac{1}{f} = \frac{1}{d_o} + \frac{1}{d_i}$$

(f=focal length;  $d_o$ =object distance;  
 $d_i$ =image distance)

## Images in Mirrors and Lenses

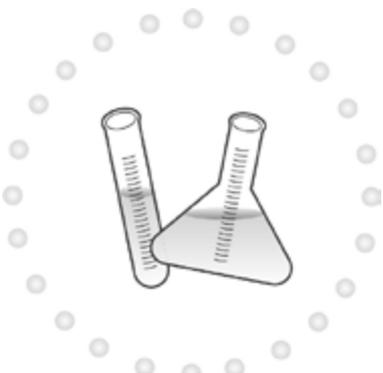
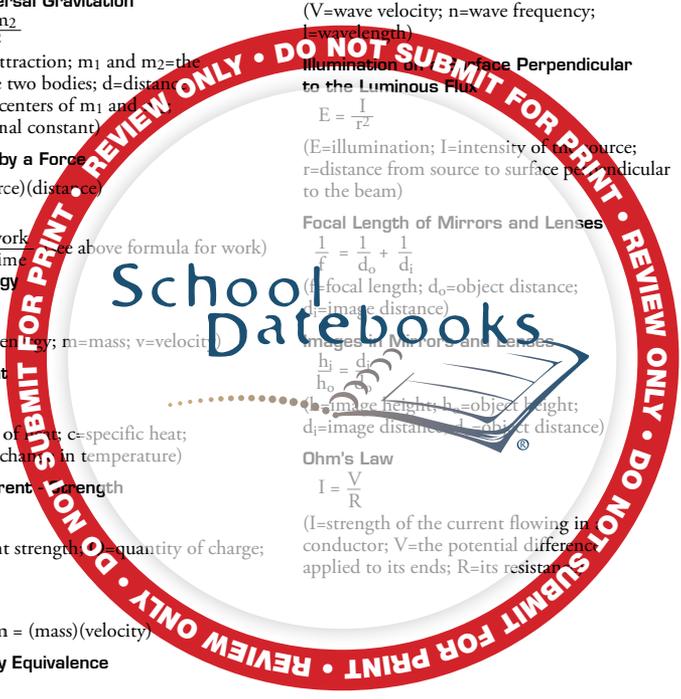
$$h_i = d_i \frac{h_o}{d_o}$$

( $h_i$ =image height;  $h_o$ =object height;  
 $d_i$ =image distance;  $d_o$ =object distance)

## Ohm's Law

$$I = \frac{V}{R}$$

(I=strength of the current flowing in conductor; V=the potential difference applied to its ends; R=its resistance)





# SCIENCE *unit conversions*

## ENGLISH TO METRIC CONVERSIONS

To Convert→	Multiply By→	To Find→
<b>AREA</b>		
square inches	6.45	square centimeters
square feet	0.09	square meters
square miles	2.59	square kilometers
acres	0.40	hectares
<b>LENGTH</b>		
inches	2.54	centimeters
feet	0.30	meters
yards	0.91	meters
miles	1.61	kilometers
<b>MASS AND WEIGHT</b>		
ounces	28.35	grams
pounds	4.45	kilograms
pounds-force	4.45	newtons
short tons	0.91	metric tons
<b>VOLUME</b>		
cubic inches	16.39	cubic centimeters
cubic feet	0.03	cubic meters
quarts	0.95	liters
gallons	3.79	liters

## METRIC TO ENGLISH CONVERSIONS

To Convert→	Multiply By→	To Find→
<b>AREA</b>		
square centimeters	0.16	square inches
square meters	10.76	square feet
square kilometers	0.39	square miles
hectares	2.47	acres
<b>LENGTH</b>		
centimeters		inches
meters		feet
meters	3.28	yards
kilometers	0.62	miles
<b>MASS AND WEIGHT</b>		
grams	0.04	ounces
kilograms	2.20	pounds
newtons	0.23	pound-force
metric tons	1.10	short tons
<b>VOLUME</b>		
cubic centimeters	0.06	cubic inches
cubic meters	35.31	cubic feet
liters	1.06	quarts
liters	0.26	gallons



### TEMPERATURE

**Fahrenheit to Celsius:**  
subtract 32,  
then multiply by 5  
and divide by 9.

**Celsius to Fahrenheit:**  
multiply by 9,  
divide by 5,  
then add 32.



# SCIENCE *weights & measures & formulas*



## WEIGHTS AND MEASURES

### ENGLISH

#### Area

1 square foot (ft <sup>2</sup> )	-----	144 square inches (in <sup>2</sup> )
1 square yard (yd <sup>2</sup> )	-----	9 square feet
1 acre	-----	43,560 square feet
1 square mile (mi <sup>2</sup> )	-----	640 acres

#### Capacity

1 cup (c)	-----	8 fluid ounces (fl oz)
1 pint (pt)	-----	2 cups
1 quart (qt)	-----	2 pints
1 quart	-----	4 cups
1 gallon (gal)	-----	4 quarts

#### Length

1 foot (ft)	-----	12 inches (in)
1 yard (yd)	-----	36 inches
1 yard	-----	3 feet
1 mile (mi)	-----	5,280 feet
1 mile	-----	1,760 yards

#### Time

1 minute (min)	-----	60 seconds (s)
1 hour (h)	-----	60 minutes
1 day (d)	-----	24 hours
1 week (wk)	-----	7 days
1 year (yr)	-----	12 months (mo)
1 year	-----	52 weeks
1 year	-----	365 days
1 century (c)	-----	100 years

#### Weight

1 pound (lb)	-----	16 ounces (oz)
1 short ton (T)	-----	2,000 pounds

### FORMULAS

Perimeter of a rectangle	-----	$P = 2(l+w)$
Perimeter of a square	-----	$P = 4s$
Perimeter of a regular polygon	-----	$P = ns$
(n = number of sides)		
Area of a rectangle	-----	$A = lw$
Area of a square	-----	$A = s^2$
Area of a parallelogram	-----	$A = bh$
Area of a triangle	-----	$A = \frac{1}{2}bh$
Area of a trapezoid	-----	$A = \frac{1}{2}h(b_1 + b_2)$
Area of a circle	-----	$A = \pi r^2$
Circumference of a circle	-----	$C = \pi d$ , or $2\pi r$
Volume of a rectangular prism	-----	$V = lwh$
Volume of any prism	-----	$V = Bh$
Volume of a cylinder	-----	$V = \pi r^2 h$
Volume of a pyramid	-----	$V = \frac{1}{3}Bh$
Volume of a cone	-----	$V = \frac{1}{3}\pi r^2 h$
Surface area of a cylinder	-----	$SA = 2\pi r^2 + 2\pi rh$
Pythagorean Theorem	-----	$a^2 + b^2 = c^2$
		(sides of a right triangle)

Simple interest -----  $I = prt$

Distance -----  $d = rt$

### METRIC

#### Area

1 sq centimeter (cm <sup>2</sup> )	-----	100 sq millimeters (mm <sup>2</sup> )
1 sq meter (m <sup>2</sup> )	-----	10,000 sq centimeters
1 hectare (ha)	-----	10,000 square meters
1 sq kilometer (km <sup>2</sup> )	-----	1,000,000 sq meters

#### Capacity

1 milliliter (ml)	-----	.001 liter (L)
1 centiliter (cl)	-----	.01 liter
1 deciliter (dl)	-----	.1 liter
1 dekaliter (dal)	-----	10 liters
1 hectoliter (hl)	-----	100 liters
1 kiloliter (kl)	-----	1,000 liters

#### Length

1 millimeter (mm)	-----	.001 meter (m)
1 centimeter (cm)	-----	.01 meter
1 decimeter (dm)	-----	.1 meter
1 dekameter (dam)	-----	10 meters
1 hectometer (hm)	-----	100 meters
1 kilometer (km)	-----	1,000 meters

#### Mass/Weight

1 milligram (mg)	-----	.001 gram (g)
1 centigram (cg)	-----	.01 gram
1 decigram (dg)	-----	.1 gram
1 dekagram (dag)	-----	10 grams
1 hectogram (hg)	-----	100 grams
1 kilogram (kg)	-----	1,000 grams
1 metric ton (t)	-----	1,000 kilograms

### FORMULA KEY

A = area
B = length of any side of a plane figure
b = area of base
d = diameter
h = height, perpendicular distance from the furthest point of the figure to the extended base
l = length
P = perimeter
r = radius
s = side
sa = surface area
V = volume
w = width

I = interest, p = principal, r = rate, t = time

d = distance, r = rate, t = time



# MATHEMATICS *Roman numerals & place value*

### ROMAN NUMERALS

IN THE ROMAN NUMBER SYSTEM, NUMERALS ARE REPRESENTED BY 7 CAPITAL LETTERS FROM OUR ALPHABET. THESE LETTERS ARE COMBINED IN DIFFERENT WAYS TO FORM NUMBERS. THE VALUES OF THE LETTERS ARE ADDED TOGETHER, UNLESS A LETTER WITH A LESSER VALUE COMES BEFORE ONE WITH A LARGER VALUE. IN THIS CASE, THE VALUE IS THE DIFFERENCE OF THE TWO LETTER VALUES.

FOLLOWING ARE THE 7 LETTERS AND THEIR VALUES:

**I** → one  
**V** → five  
**X** → ten  
**L** → fifty  
**C** → one hundred  
**D** → five hundred  
**M** → one thousand

{1}=I  
 {2}=II  
 {3}=III  
 {4}=IV  
 {5}=V  
 {6}=VI  
 {7}=VII  
 {8}=VIII  
 {9}=IX  
 {10}=X  
 {11}=XI  
 {12}=XII  
 {13}=XIII  
 {14}=XIV  
 {15}=XV  
 {16}=XVI  
 {17}=XVII  
 {18}=XVIII  
 {19}=XIX  
 {20}=XX  
 {30}=XXX  
 {40}=XL  
 {50}=L  
 {60}=LX  
 {70}=LXX  
 {80}=LXXX  
 {90}=XC  
 {100}=C  
 {500}=D  
 {1000}=M

### PLACE VALUE

Hundred Trillions	Ten Trillions	One Trillions	Hundred Billions	One Billions	Hundred Millions	Ten Millions	One Millions	Hundred Thousands	Ten Thousands	One Thousands	Hundreds	Tens	Ones
1	5	4	3	9	7	1	5	4	6	2	1	0	0

Read this number as one hundred fifty-four trillion, three hundred ninety-nine billion, seven hundred seven million, four hundred sixty-two thousand one hundred.

Write this number 154,399,715,462,100.

Number	Zeros
Thousand	3
Million	6
Billion	9
Trillion	12
Quadrillion	15
Quintillion	18
Sextillion	21
Septillion	24
Octillion	27
Nonillion	30
Decillion	33
Googol	100

### NUMBER PREFIXES

uni-	one
bi-	two
tri-	three
quadri-	four
quint-	five
sex-	six
sept-	seven
oct-	eight
non-	nine
deci-	ten



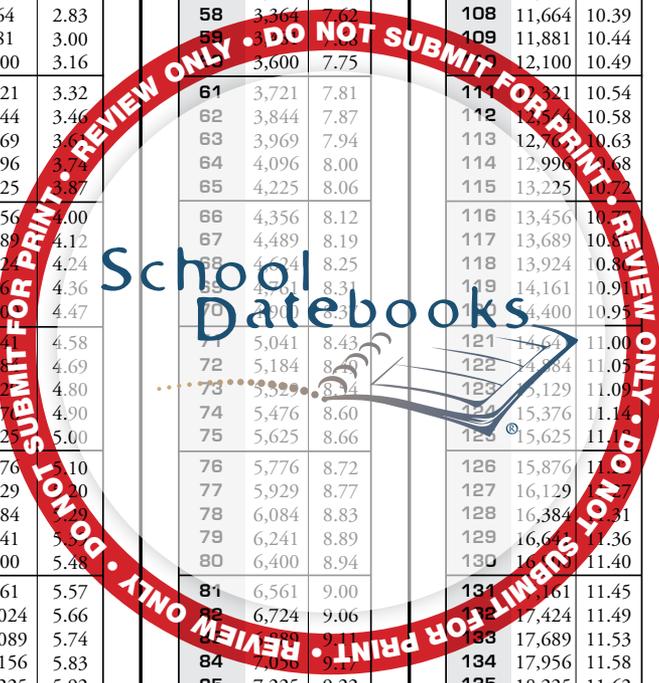
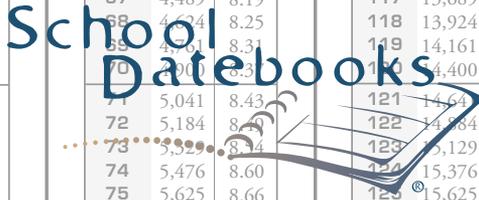
# MATHEMATICS *squares & square roots*

## SQUARES & SQUARE ROOTS

N	N <sup>2</sup>	$\sqrt{N}$
1	1	1.00
2	4	1.41
3	9	1.73
4	16	2.00
5	25	2.24
6	36	2.45
7	49	2.65
8	64	2.83
9	81	3.00
10	100	3.16
11	121	3.32
12	144	3.46
13	169	3.61
14	196	3.74
15	225	3.87
16	256	4.00
17	289	4.12
18	324	4.24
19	361	4.36
20	400	4.47
21	441	4.58
22	484	4.69
23	529	4.80
24	576	4.90
25	625	5.00
26	676	5.10
27	729	5.20
28	784	5.29
29	841	5.39
30	900	5.48
31	961	5.57
32	1,024	5.66
33	1,089	5.74
34	1,156	5.83
35	1,225	5.92
36	1,296	6.00
37	1,369	6.08
38	1,444	6.16
39	1,521	6.24
40	1,600	6.32
41	1,681	6.40
42	1,764	6.48
43	1,849	6.56
44	1,936	6.63
45	2,025	6.71
46	2,116	6.78
47	2,209	6.86
48	2,304	6.93
49	2,401	7.00
50	2,500	7.07

N	N <sup>2</sup>	$\sqrt{N}$
51	2,601	7.14
52	2,704	7.21
53	2,809	7.28
54	2,916	7.35
55	3,025	7.42
56	3,136	7.48
57	3,249	7.55
58	3,364	7.62
59	3,481	7.68
60	3,600	7.75
61	3,721	7.81
62	3,844	7.87
63	3,969	7.94
64	4,096	8.00
65	4,225	8.06
66	4,356	8.12
67	4,489	8.19
68	4,624	8.25
69	4,761	8.31
70	4,900	8.37
71	5,041	8.43
72	5,184	8.49
73	5,329	8.54
74	5,476	8.60
75	5,625	8.66
76	5,776	8.72
77	5,929	8.77
78	6,084	8.83
79	6,241	8.89
80	6,400	8.94
81	6,561	9.00
82	6,724	9.06
83	6,889	9.11
84	7,056	9.17
85	7,225	9.22
86	7,396	9.27
87	7,569	9.33
88	7,744	9.38
89	7,921	9.43
90	8,100	9.49
91	8,281	9.54
92	8,464	9.59
93	8,649	9.64
94	8,836	9.70
95	9,025	9.75
96	9,216	9.80
97	9,409	9.85
98	9,604	9.90
99	9,801	9.95
100	10,000	10.00

N	N <sup>2</sup>	$\sqrt{N}$
101	10,201	10.05
102	10,404	10.10
103	10,609	10.15
104	10,816	10.20
105	11,025	10.25
106	11,236	10.30
107	11,449	10.34
108	11,664	10.39
109	11,881	10.44
110	12,100	10.49
111	12,321	10.54
112	12,544	10.58
113	12,769	10.63
114	12,996	10.68
115	13,225	10.72
116	13,456	10.77
117	13,689	10.81
118	13,924	10.86
119	14,161	10.91
120	14,400	10.95
121	14,641	11.00
122	14,884	11.05
123	15,129	11.09
124	15,376	11.14
125	15,625	11.18
126	15,876	11.23
127	16,129	11.27
128	16,384	11.31
129	16,641	11.36
130	16,900	11.40
131	17,161	11.45
132	17,424	11.49
133	17,689	11.53
134	17,956	11.58
135	18,225	11.62
136	18,496	11.66
137	18,769	11.70
138	19,044	11.75
139	19,321	11.79
140	19,600	11.83
141	19,881	11.87
142	20,164	11.92
143	20,449	11.96
144	20,736	12.00
145	21,025	12.04
146	21,316	12.08
147	21,609	12.12
148	21,904	12.17
149	22,201	12.21
150	22,500	12.25





# MATHEMATICS *algebra & mathematical symbols*

## ALGEBRA

### Expanding

- {1}  $a(b+c) = ab+ac$
- {2}  $(a+b)^2 = a^2+2ab+b^2$
- {3}  $(a-b)^2 = a^2-2ab+b^2$
- {4}  $(a+b)(a+c) = a^2+ac+ab+bc$
- {5}  $(a+b)(c+d) = ac+ad+bc+bd$
- {6}  $(a+b)^3 = a^3+3a^2b+3ab^2+b^3$
- {7}  $(a-b)^3 = a^3-3a^2b+3ab^2-b^3$
- {8}  $a^2-b^2 = (a+b)(a-b)$
- {9}  $a^3+b^3 = (a+b)(a^2-ab+b^2)$
- {10}  $a^3b-ab = ab(a+1)(a-1)$
- {11}  $a^2-2ab+b^2 = (a-b)^2$
- {12}  $a^3-b^3 = (a-b)(a^2+ab+b^2)$

### Laws of Exponents

- {1}  $a^r a^s = a^{r+s}$
- {2}  $a^r / a^s = a^{r-s}$
- {3}  $a^r a^p = a^{r+p}$
- {4}  $(a^r)^s = a^{rs}$
- {5}  $(ab)^r = a^r b^r$
- {6}  $(a/b)^r = a^r / b^r (b \neq 0)$
- {7}  $a^0 = 1 (a \neq 0)$
- {8}  $a^{-r} = 1/a^r (a \neq 0)$

*if r and s are positive integers*

### Logarithms

- {1}  $\text{Log}(xy) = \text{Log } x + \text{Log } y$
  - {2}  $\text{Log } x^r = r \text{Log } x$
  - {3}  $\text{Log } x = n \iff x = 10^n$  (Common log)
  - {4}  $\text{Log}_a x = n \iff x = a^n$  (Log to the base a)
  - {5}  $\text{Ln } x = n \iff x = e^n$  (Natural log)
  - {6}  $\text{Log}(x/y) = \text{Log } x - \text{Log } y$
- $e = 2.71828183$

### Quadratic Formula

When given a formul in the form of a quadratic equation  $\rightarrow$

$$ax^2+bx+c=0$$

The solution can be derived using the quadratic formula  $\rightarrow$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

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## MATHEMATICAL SYMBOLS

+	plus	>	greater than	⊙	circle
-	minus	<	less than	⌒	arc of circle
±	plus or minus	≥	greater than or equal to	□	square
×	multiplied by	≤	less than or equal to	▭	rectangle
÷	divided by	∞	infinity	▭	parallelogram
=	equal to	∴	is to (ratio)	△	triangle
≠	not equal to	∝	(proportion)	∠	angle
≈	nearly equal to	π	pi (-3.14159)	∟	right angle
$\sqrt{\quad}$	square root of x	∴	therefore	⊥	perpendicular
$\sqrt[n]{\quad}$	nth root of x	∵	because	∥	parallel
%	percentage	x	absolute value of x	°	degrees
∑	sum of	...	and so on	'	minutes



# MATHEMATICS *fractions & percentages & multiplication table*

## FRACTIONS AND PERCENTAGES

1	=	1.0	=	100%
3/4	=	0.75	=	75%
2/3	=	0.667	=	66.7%
1/2	=	0.5	=	50%
1/3	=	0.333	=	33.3%
1/4	=	0.25	=	25%
1/5	=	0.2	=	20%
1/6	=	0.167	=	16.7%
1/7	=	0.142	=	14.2%
1/8	=	0.125	=	12.5%
1/9	=	0.111	=	11.1%
1/10	=	0.1	=	10%
1/11	=	0.09	=	9.1%
1/12	=	0.083	=	8.3%

## WORKING WITH FRACTIONS

The top number of a fraction is called the **numerator**.



The bottom number of a fraction is called the **denominator**.

To multiply:

$$\frac{1}{2} \times \frac{3}{4} = \frac{1 \times 3}{2 \times 4} = \frac{3}{8}$$

To divide, simply the first fraction with the reciprocal of the other:

$$\frac{2}{3} \div \frac{1}{6} = \frac{2}{3} \times \frac{6}{1} = \frac{12}{3} = 4$$

To add or subtract, first find a common denominator:

$$\frac{1}{3} + \frac{2}{5} = \left(\frac{1 \times 5}{3 \times 5}\right) + \left(\frac{2 \times 3}{5 \times 3}\right) = \frac{5}{15} + \frac{6}{15} = \frac{11}{15}$$

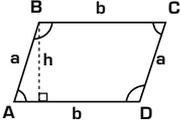
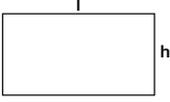
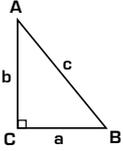
## MULTIPLICATION TABLE

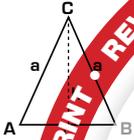
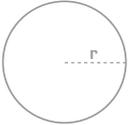
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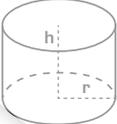
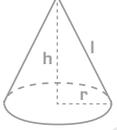
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
3	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
4	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
5	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
6	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
7	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	133	140
8	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160
9	9	18	27	36	45	54	63	72	81	90	99	108	117	126	135	144	153	162	171	180
10	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
11	11	22	33	44	55	66	77	88	99	110	121	132	143	154	165	176	187	198	209	220
12	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
13	13	26	39	52	65	78	91	104	117	130	143	156	169	182	195	208	221	234	247	260
14	14	28	42	56	70	84	98	112	126	140	154	168	182	196	210	224	238	252	266	280
15	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300
16	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320
17	17	34	51	68	85	102	119	136	153	170	187	204	221	238	255	272	289	306	323	340
18	18	36	54	72	90	108	126	144	162	180	198	216	234	252	270	288	306	324	342	360
19	19	38	57	76	95	114	133	152	171	190	209	228	247	266	285	304	323	342	361	380
20	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400

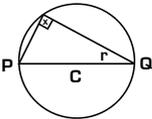
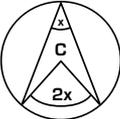
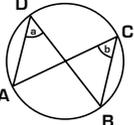


# MATHEMATICS *area & volume*

<p><b>PARALLELOGRAM</b></p>  <p>Area of ABCD = <math>bh</math></p>	<p><b>RECTANGLE</b></p>  <p>Perimeter = <math>2(l + h)</math> Area = <math>l \times h</math></p>	<p><b>RIGHT TRIANGLE</b></p>  <p>Area = <math>ab/2</math> <math>c^2 = a^2 + b^2</math> (Pythagorean Theorem)</p>
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<p><b>ISOSCELES TRIANGLE</b></p>  <p>Area = <math>bh/2</math></p>	<p><b>CIRCLE</b></p>  <p>Area of a circle = <math>\pi r^2</math> Circumference of a circle = <math>2\pi r</math></p>	<p><b>TRIANGULAR PRISM</b></p>  <p>Surface area of a prism = <math>2(wl + lh + wh)</math> Volume of a prism = <math>l \times w \times h</math></p>
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<p><b>SPHERE</b></p>  <p>Surface area of a sphere = <math>4\pi r^2</math> Volume of a sphere = <math>4\pi r^3/3</math></p>	<p><b>CYLINDER</b></p>  <p>Surface area of a cylinder = <math>2\pi r^2 + 2\pi rh</math> Volume of a cylinder = <math>\pi r^2 h</math></p>	<p><b>CONE</b></p>  <p>Surface area of a cone = <math>\pi r^2 + \pi rl</math> Volume of a cone = <math>\pi r^2 h/3</math></p>	<p><b>PYRAMID</b></p>  <p>Surface area of a pyramid = <math>B + \text{Lateral Area}</math> (Lateral area = sum of triangular faces) Volume of a pyramid = <math>Bh/3</math> (B = area of base)</p>
--	---	---	--

<p><b>CIRCLE THEOREMS</b></p>  <p><math>\angle x = 90^\circ</math> (PQ is the diameter)</p>	 <p>C is the center of the circle</p>	 <p><math>\angle a = \angle b</math> (Both angles intercept arc AB)</p>
--	--	--



# MATHEMATICS *geometric angles & congruence cases*

GEOMETRIC ANGLES			
A right angle is exactly $90^\circ$	An acute angle is less than $90^\circ$	An obtuse angle is greater than $90^\circ$	A straight angle is exactly $180^\circ$

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Complementary angles add up to  $90^\circ$

Supplementary angles add up to  $180^\circ$

One complete angle of rotation =  $360^\circ$

GEOMETRIC CONGRUENCE CASES			
S.S.S. POSTULATE	S.A.S. POSTULATE	A.S.A. POSTULATE	H.S. POSTULATE (RIGHT ANGLE ONLY)
Side-Side-Side $\triangle ABC \cong \triangle DEF$	Side-Angle-Side $\triangle ABC \cong \triangle KLM$	Angle-Side-Angle $\triangle ABC \cong \triangle PRS$	Hypotenuse-side $\triangle ABC \cong \triangle XYZ$

<b>EQUILATERAL TRIANGLE</b>  3 Sides of Equal Length 3 Angles of $60^\circ$ Each	<b>ISOSCELES TRIANGLE</b>  2 Sides of Equal Length 2 Base Angles are Equal	<b>SCALENE TRIANGLE</b>  3 Unequal Sides 3 Unequal Angles
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# MATHEMATICS *trigonometry*

## TRIGONOMETRIC RATIOS

$$\begin{aligned} \sin(A+B) &= \sin A \cos B + \cos A \sin B \\ \sin(A-B) &= \sin A \cos B - \cos A \sin B \\ \cos(A+B) &= \cos A \cos B - \sin A \sin B \\ \cos(A-B) &= \cos A \cos B + \sin A \sin B \end{aligned}$$

$$\tan(A+B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$$

$$\tan(A-B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}$$

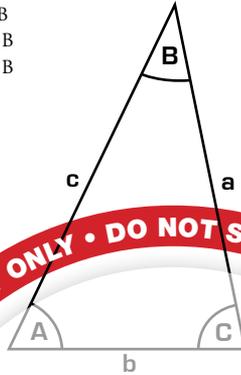
$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$\cos^2 \theta - \sin^2 \theta = \cos 2\theta$$

$$\tan^2 \theta + 1 = \sec^2 \theta$$

$$\cot^2 \theta + 1 = \csc^2 \theta$$



## TRIGONOMETRIC RATIOS

### Law of Sines

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

### Law of Cosines

$$a^2 = b^2 + c^2 - 2bc(\cos A)$$

$$b^2 = a^2 + c^2 - 2ac(\cos B)$$

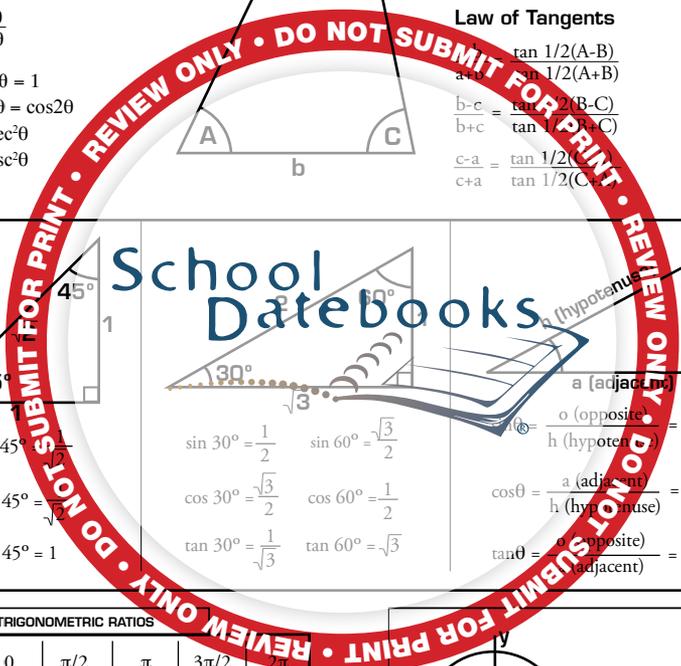
$$c^2 = a^2 + b^2 - 2ab(\cos C)$$

### Law of Tangents

$$\frac{a-b}{a+b} = \frac{\tan \frac{1}{2}(A-B)}{\tan \frac{1}{2}(A+B)}$$

$$\frac{b-c}{b+c} = \frac{\tan \frac{1}{2}(B-C)}{\tan \frac{1}{2}(B+C)}$$

$$\frac{c-a}{c+a} = \frac{\tan \frac{1}{2}(C-A)}{\tan \frac{1}{2}(C+A)}$$



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$\sin 45^\circ = \frac{1}{\sqrt{2}}$   
 $\cos 45^\circ = \frac{1}{\sqrt{2}}$   
 $\tan 45^\circ = 1$

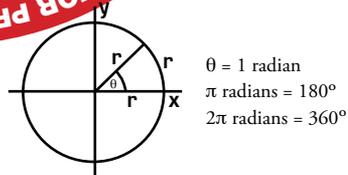
$\sin 30^\circ = \frac{1}{2}$      $\sin 60^\circ = \frac{\sqrt{3}}{2}$   
 $\cos 30^\circ = \frac{\sqrt{3}}{2}$      $\cos 60^\circ = \frac{1}{2}$   
 $\tan 30^\circ = \frac{1}{\sqrt{3}}$      $\tan 60^\circ = \sqrt{3}$

$\csc \theta = \frac{h(\text{hypotenuse})}{o(\text{opposite})} = \frac{1}{\sin \theta}$   
 $\sec \theta = \frac{h(\text{hypotenuse})}{a(\text{adjacent})} = \frac{1}{\cos \theta}$   
 $\cot \theta = \frac{a(\text{adjacent})}{o(\text{opposite})} = \frac{1}{\tan \theta}$

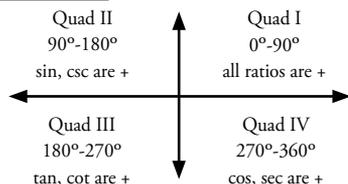
### VALUES OF TRIGONOMETRIC RATIOS

$\theta$	0	$\pi/2$	$\pi$	$3\pi/2$	$2\pi$
$\sin \theta$	0	1	0	-1	0
$\cos \theta$	1	0	-1	0	1
$\tan \theta$ <small>(<math>\sin/\cos</math>)</small>	0	$\infty$	0	$-\infty$	0
$\sec \theta$ <small>(<math>1/\cos</math>)</small>	1	$\infty$	-1	$\infty$	1
$\csc \theta$ <small>(<math>1/\sin</math>)</small>	$\infty$	1	$\infty$	-1	$\infty$
$\cot \theta$ <small>(<math>1/\tan</math>)</small>	$\infty$	0	$-\infty$	0	$\infty$

note:  $\infty$  denotes undefined or infinite



### QUADRANTS





# CIVICS *Bill of Rights*

## AMENDMENT I

Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the government for a redress of grievances.

## AMENDMENT II

A well regulated militia, being necessary to the security of a free state, the right of the people to keep and bear arms, shall not be infringed.

## AMENDMENT III

No soldier shall, in time of peace be quartered in any house, without the consent of the owner, nor in time of war, but in a manner to be prescribed by law.

## AMENDMENT IV

The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and seizures, shall not be violated, and no warrants shall issue, but upon probable cause, supported by oath or affirmation, and particularly describing the places to be searched, and the persons or things to be seized.

## AMENDMENT V

No person shall be held to answer for a capital, or otherwise infamous crime, unless on a presentment or indictment of a grand jury, except in cases arising in the land or naval forces, or in the militia, when in actual service in time of war or public danger; nor shall any person be subject for the same offense to be twice put in jeopardy of life or limb; nor shall be compelled in any criminal case to be a witness against himself, nor be deprived of life, liberty, or property, without due process of law; nor shall private property be taken for public use, without just compensation.

## AMENDMENT VI

In all criminal prosecutions, the accused shall enjoy the right to a speedy and public trial, by an impartial jury of the state and district wherein the crime shall have been committed, which district shall have been previously ascertained by law, and to be informed of the nature and cause of the accusation; to be confronted with the witnesses against him; to have compulsory process for obtaining witnesses in his favor, and to have the assistance of counsel for his defense.

## AMENDMENT VII

In suits at common law, where the value in controversy shall exceed twenty dollars, the right of trial by jury shall be preserved, and no fact tried by a jury, shall be otherwise re-examined in any court of the United States, than according to the rules of the common law.

## AMENDMENT VIII

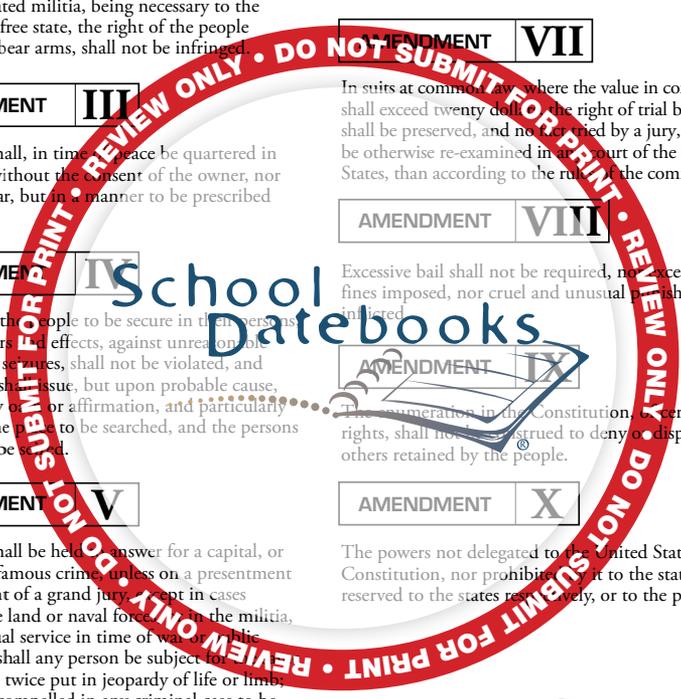
Excessive bail shall not be required, nor excessive fines imposed, nor cruel and unusual punishments inflicted.

## AMENDMENT IX

The enumeration in the Constitution of certain rights, shall not be construed to deny or disparage others retained by the people.

## AMENDMENT X

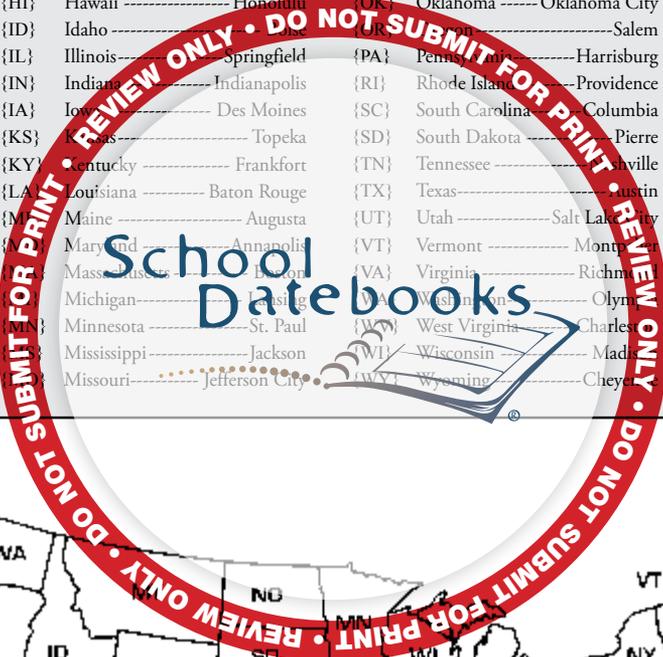
The powers not delegated to the United States by the Constitution, nor prohibited to the states, are reserved to the states respectively, or to the people.





# GEOGRAPHY *states & state capitals*

{AL}	Alabama	-----	Montgomery	{MT}	Montana	-----	Helena
{AK}	Alaska	-----	Juneau	{NE}	Nebraska	-----	Lincoln
{AZ}	Arizona	-----	Phoenix	{NV}	Nevada	-----	Carson City
{AR}	Arkansas	-----	Little Rock	{NH}	New Hampshire	-----	Concord
{CA}	California	-----	Sacramento	{NJ}	New Jersey	-----	Trenton
{CO}	Colorado	-----	Denver	{NM}	New Mexico	-----	Santa Fe
{CT}	Connecticut	-----	Hartford	{NY}	New York	-----	Albany
{DE}	Delaware	-----	Dover	{NC}	North Carolina	-----	Raleigh
{FL}	Florida	-----	Tallahassee	{ND}	North Dakota	-----	Bismarck
{GA}	Georgia	-----	Atlanta	{OH}	Ohio	-----	Columbus
{HI}	Hawaii	-----	Honolulu	{OK}	Oklahoma	-----	Oklahoma City
{ID}	Idaho	-----	Boise	{OR}	Oregon	-----	Salem
{IL}	Illinois	-----	Springfield	{PA}	Pennsylvania	-----	Harrisburg
{IN}	Indiana	-----	Indianapolis	{RI}	Rhode Island	-----	Providence
{IA}	Iowa	-----	Des Moines	{SC}	South Carolina	-----	Columbia
{KS}	Kansas	-----	Topeka	{SD}	South Dakota	-----	Pierre
{KY}	Kentucky	-----	Frankfort	{TN}	Tennessee	-----	Nashville
{LA}	Louisiana	-----	Baton Rouge	{TX}	Texas	-----	Austin
{ME}	Maine	-----	Augusta	{UT}	Utah	-----	Salt Lake City
{MD}	Maryland	-----	Annapolis	{VT}	Vermont	-----	Montpelier
{MA}	Massachusetts	-----	Boston	{VA}	Virginia	-----	Richmond
{MI}	Michigan	-----	Lansing	{WA}	Washington	-----	Olympia
{MN}	Minnesota	-----	St. Paul	{WV}	West Virginia	-----	Charleston
{MS}	Mississippi	-----	Jackson	{WI}	Wisconsin	-----	Madison
{MO}	Missouri	-----	Jefferson City	{WY}	Wyoming	-----	Cheyenne





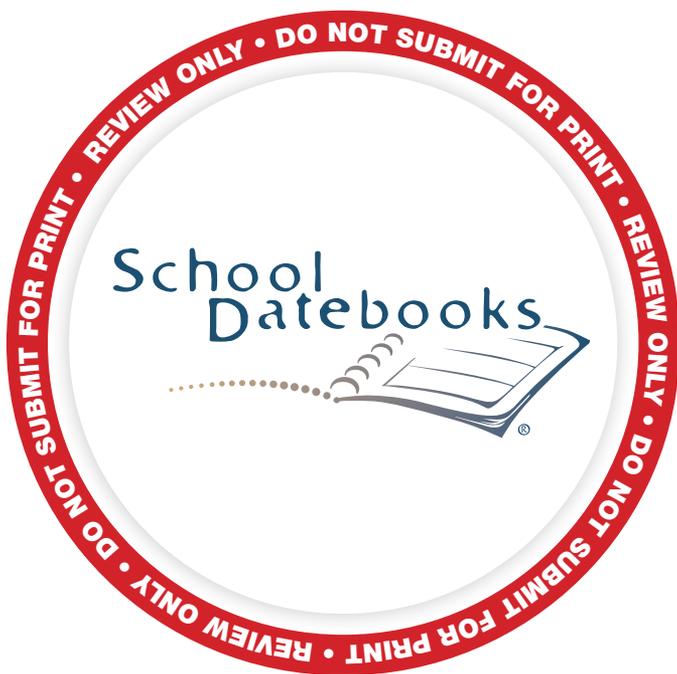
# CIVICS *United States presidents*

No.	President	Party	Native State	Dates of term(s)	Vice President
{1}	<i>George Washington</i>	Unaffiliated.	Virginia <sup>1</sup>	April 30, 1789-March 3, 1797	John Adams
{2}	<i>John Adams</i>	Fed.	Massachusetts <sup>2</sup>	March 4, 1797-March 3, 1801	Thomas Jefferson
{3}	<i>Thomas Jefferson</i>	Dem.-Rep.	Virginia <sup>1</sup>	March 4, 1801-March 3, 1805	Aaron Burr
{4}	<i>James Madison</i>	Dem.-Rep.	Virginia <sup>1</sup>	March 4, 1805-March 3, 1809	George Clinton
	<i>James Madison</i>			March 4, 1809-March 3, 1813	George Clinton*
	<i>James Monroe</i>	Dem.-Rep.	Virginia <sup>1</sup>	March 4, 1813-March 3, 1817	Elbridge Gerry*
{5}	<i>John Quincy Adams</i>	Dem.-Rep.	Massachusetts <sup>2</sup>	March 4, 1817-March 3, 1825	Daniel D. Tompkins
{6}	<i>Andrew Jackson</i>	Dem.	Carolinas <sup>3</sup>	March 4, 1825-March 3, 1829	John C. Calhoun
{7}	<i>Andrew Jackson</i>			March 4, 1829-March 3, 1833	John C. Calhoun*
	<i>Martin Van Buren</i>	Dem.	New York	March 4, 1833-March 3, 1837	Martin Van Buren
{8}	<i>Martin Van Buren</i>			March 4, 1837-March 3, 1841	Richard M. Johnson
{9}	<i>William Henry Harrison*</i>	Whig	Virginia <sup>1</sup>	March 4, 1841-April 4, 1841	John Tyler
{10}	<i>John Tyler</i>	Whig	Virginia	April 6, 1841-March 3, 1845	George M. Dallas
	<i>James K. Polk</i>	Dem.	North Carolina	March 4, 1845-March 3, 1849	Millard Fillmore
{11}	<i>Zachary Taylor*</i>	Whig	Virginia	March 4, 1849-July 9, 1850	
{12}	<i>Millard Fillmore</i>	Whig	New York	July 10, 1850-March 3, 1853	William R. King*
{13}	<i>Franklin Pierce</i>	Dem.	New Hampshire	March 4, 1853-March 3, 1857	John C. Breckinridge
{14}	<i>James Buchanan</i>	Dem.	Pennsylvania	March 4, 1857-March 3, 1861	Hannibal Hamlin
{15}	<i>Abraham Lincoln</i>	Rep.	Kentucky	March 4, 1861-March 3, 1865	Andrew Johnson
	<i>Abraham Lincoln*</i>			March 4, 1865-April 15, 1865	
{17}	<i>Andrew Johnson</i>	Dem.	North Carolina	April 15, 1865-March 3, 1869	Schuyler Colfax
{18}	<i>Ulysses S. Grant</i>	Rep.	Ohio	March 4, 1869-March 3, 1873	Henry Wilson*
	<i>Ulysses S. Grant</i>			March 4, 1873-March 3, 1877	William A. Wheeler
{19}	<i>Rutherford B. Hayes</i>	Rep.	Ohio	March 4, 1877-March 3, 1881	Chester A. Arthur
{20}	<i>James A. Garfield</i>	Rep.	Ohio	March 4, 1881-Sept. 19, 1881	
{21}	<i>Chester A. Arthur</i>	Rep.	Vermont	Sept. 19, 1881-March 3, 1885	Thomas A. Hendricks*
{22}	<i>Grover Cleveland</i>	Dem.	New Jersey	March 4, 1885-March 3, 1889	Levi P. Morton
{23}	<i>Benjamin Harrison</i>	Rep.	Ohio	March 4, 1889-March 3, 1893	Adlai E. Stevenson
{24}	<i>Grover Cleveland</i>	Dem.	New Jersey	March 4, 1893-March 3, 1897	Charles A. Hobart*
{25}	<i>William McKinley</i>	Rep.	Ohio	March 4, 1897-March 3, 1901	Theodore Roosevelt
	<i>William McKinley*</i>			March 4, 1901-Sept. 14, 1901	
	<i>Theodore Roosevelt</i>	Rep.	New York	Sept. 14, 1901-March 3, 1905	Charles W. Fairbanks
	<i>Theodore Roosevelt</i>			March 4, 1905-March 3, 1909	James Sherman*
{27}	<i>William Taft</i>	Rep.	Ohio	March 4, 1909-March 3, 1913	Thomas R. Marshall
{28}	<i>Woodrow Wilson</i>	Dem.	Virginia	March 4, 1913-March 3, 1917	Calvin Coolidge
	<i>Woodrow Wilson</i>			March 4, 1917-March 3, 1921	
{29}	<i>Warren Harding*</i>	Rep.	Ohio	March 4, 1921-August 2, 1923	Charles G. Dawes
{30}	<i>Calvin Coolidge</i>	Rep.	Vermont	August 3, 1923-March 3, 1929	Charles Curtis
	<i>Calvin Coolidge</i>			March 4, 1925-March 3, 1929	John C. Garner
{31}	<i>Herbert Hoover</i>	Rep.	Iowa	March 4, 1929-March 3, 1933	
{32}	<i>Franklin D. Roosevelt</i>	Dem.	New York	March 4, 1933-Jan. 20, 1937	John A. Wallace
	<i>Franklin D. Roosevelt</i>			Jan. 20, 1937-Jan. 20, 1941	Henry S. Truman
	<i>Franklin D. Roosevelt</i>			Jan. 20, 1941-Jan. 20, 1945	
	<i>Franklin D. Roosevelt*</i>			Jan. 20, 1945-April 12, 1945	Allen W. Barkley
{33}	<i>Harry S. Truman</i>	Dem.	Missouri	April 12, 1945-Jan. 20, 1949	Richard M. Nixon
	<i>Harry S. Truman</i>			Jan. 20, 1949-Jan. 20, 1953	
{34}	<i>Dwight D. Eisenhower</i>	Rep.	Texas	Jan. 20, 1953-Jan. 20, 1957	Lyndon B. Johnson
	<i>Dwight D. Eisenhower</i>			Jan. 20, 1957-Jan. 20, 1961	
{35}	<i>John F. Kennedy*</i>	Dem.	Massachusetts	Jan. 20, 1961-Nov. 22, 1963	Hubert H. Humphrey
{36}	<i>Lyndon B. Johnson</i>	Dem.	Texas	Nov. 22, 1963-Jan. 20, 1969	Spiro T. Agnew*
	<i>Lyndon B. Johnson</i>			Jan. 20, 1965-Jan. 20, 1969	Gerald R. Ford*
{37}	<i>Richard M. Nixon</i>	Rep.	California	Jan. 20, 1969-Jan. 20, 1973	Nelson Rockefeller
	<i>Richard M. Nixon*</i>			Jan. 20, 1973-Aug. 9, 1974	Walter Mondale
	<i>Gerald R. Ford</i>	Rep.	Ohio	Aug. 9, 1974-Jan. 20, 1977	George H. W. Bush
{39}	<i>James E. Carter, Jr.</i>	Dem.	Georgia	Jan. 20, 1977-Jan. 20, 1981	Dan Quayle
{40}	<i>Ronald Reagan</i>	Rep.	Illinois	Jan. 20, 1981-Jan. 20, 1985	Albert Gore, Jr.
	<i>Ronald Reagan</i>			Jan. 20, 1985-Jan. 20, 1989	Richard B. Cheney
{41}	<i>George H. W. Bush</i>	Rep.	Massachusetts	Jan. 20, 1989-Jan. 20, 1993	Joseph R. Biden, Jr.
{42}	<i>William J. Clinton</i>	Dem.	Arkansas	Jan. 20, 1993-Jan. 20, 1997	
	<i>William J. Clinton</i>			Jan. 20, 1997-Jan. 20, 2001	
{43}	<i>George W. Bush</i>	Rep.	Connecticut	Jan. 20, 2001-Jan. 20, 2005	
	<i>George W. Bush</i>			Jan. 20, 2005-Jan. 20, 2009	
{44}	<i>Barack H. Obama</i>	Dem.	Hawaii	Jan. 20, 2009-Jan. 20, 2013	
	<i>Barack H. Obama</i>			Jan. 20, 2013-Jan. 20, 2017	
{45}	<i>Donald Trump</i>	Rep.	New York	Jan. 20, 2017-Jan. 20, 2021	Mike Pence
{46}	<i>Joseph R. Biden, Jr.</i>	Dem.	Delaware	Jan. 20, 2021-Jan. 20, 2025	Kamala Harris
{47}	<i>Donald Trump</i>	Rep.	New York	Jan. 20, 2025-	JD Vance

(\*did not finish term, <sup>1</sup>born as subjects of Great Britain before United States was established)

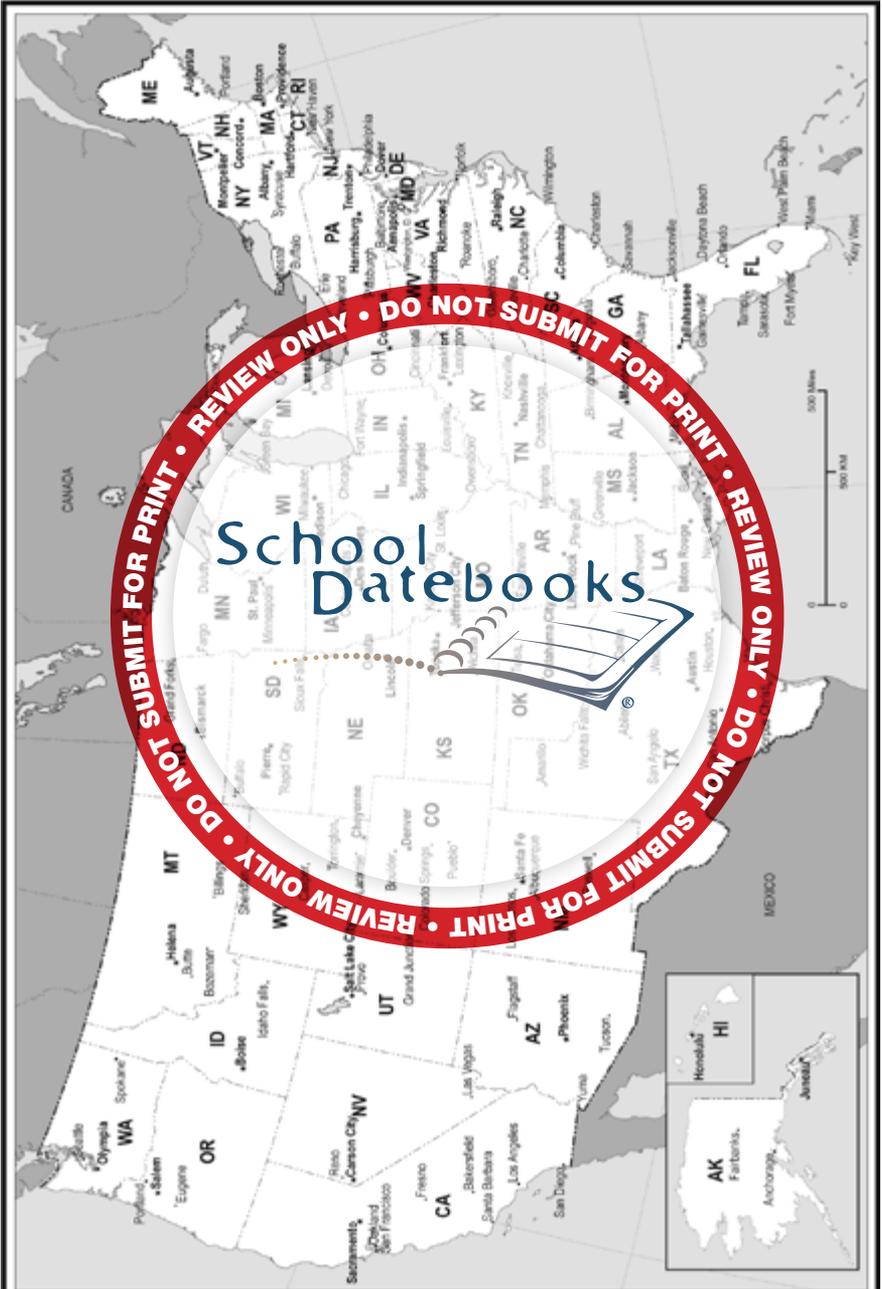
## ORDER OF PRESIDENTIAL SUCCESSION

- |   |                               |   |                                     |
|---|-------------------------------|---|-------------------------------------|
| {1} The Vice President                  | {6} Secretary of Defense      | {12} Secretary of Health and Human Services     | {16} Secretary of Education         |
| {2} Speaker of the House                | {7} Attorney General          | {13} Secretary of Housing and Urban Development | {17} Secretary of Veterans Affairs  |
| {3} President pro tempore of the Senate | {8} Secretary of the Interior | {14} Secretary of Transportation                | {18} Secretary of Homeland Security |
| {4} Secretary of State                  | {9} Secretary of Agriculture  | {15} Secretary of Energy                        |                                     |
| {5} Secretary of the Treasury           | {10} Secretary of Commerce    |   |                                     |
|   | {11} Secretary of Labor       |   |                                     |



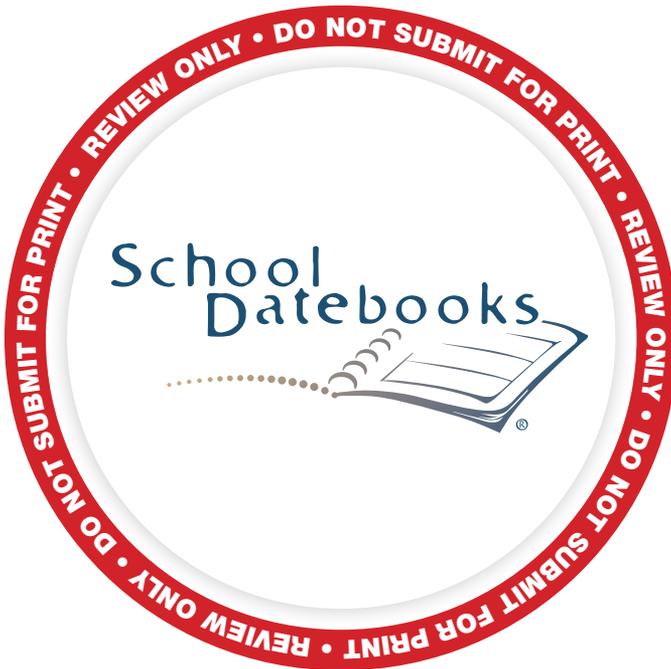


# GEOGRAPHY *United States map*



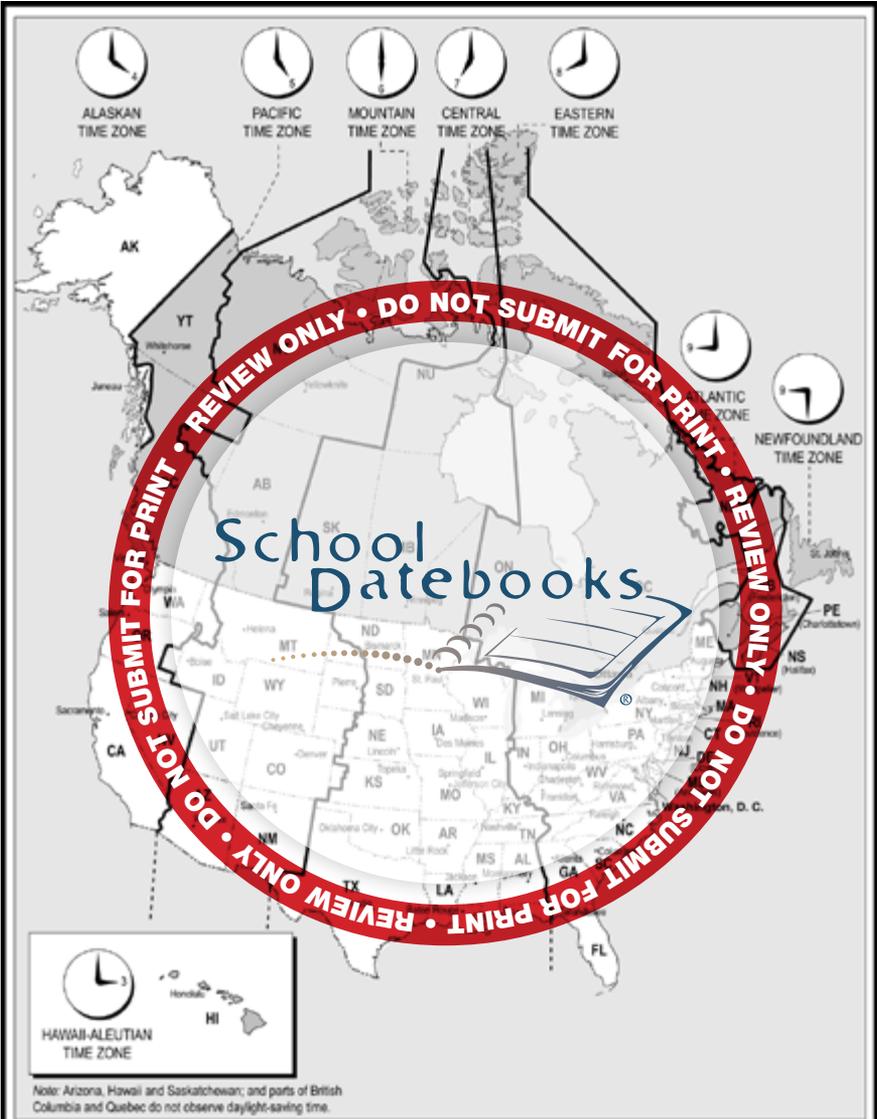


INSERT STATE MAP





# GEOGRAPHY *U.S. & Canada time zones*





# HEALTHY LIVING *dietary guidelines*

<b>DIETARY GUIDELINES</b>	<b>RECOMMENDATIONS FOR DAILY FOOD CHOICES</b>
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## EAT THE RIGHT AMOUNT FOR YOU

The calories you need depend on your age, sex, height, weight, and level of physical activity.

<b>PROTEIN</b> Prioritize Protein Foods at Every Meal	<b>DAIRY</b> Consume Dairy	<b>VEGETABLES &amp; FRUITS</b> Eat Vegetables & Fruits Throughout the Day	<b>HEALTHY FATS</b> Incorporate Healthy Fats	<b>Whole Grains</b> Focus on Whole Grains
Prioritize high-quality, nutrient-dense protein foods as part of a healthy dietary pattern.	When consuming dairy, include full-fat dairy with no added sugars. Dairy is an excellent source of protein, healthy fats, vitamins, and minerals.	Eat a variety of colorful, nutrient-dense vegetables and fruits.	Healthy fats are plentiful in many whole foods, such as meats, poultry, eggs, omega-3-rich seafood, nuts, seeds, full-fat dairy, olives, and avocados.	Prioritize fiber-rich whole grains.

## LIMIT HIGHLY PROCESSED FOODS, ADDED SUGARS, & REFINED CARBOHYDRATES

Avoid highly processed packaged, prepared, ready-to-eat, or other foods that are salty or sweet, such as chips, cookies, and candy that have added sugars and sodium (salt).



# HEALTHY LIVING *hotlines & helplines*

<b>GENERAL CRISIS</b>		
<i>7 Cups of Tea</i> <i>Boys Town Hotline</i> (24 hrs.) <i>988 Suicide &amp; Crisis Lifeline</i> <i>I'm Alive (Online Crisis Network)</i> <i>National Center for Missing and Exploited Children</i> (24 hrs.) <i>National Runaway Safeline</i> (24 hrs.) <i>Teen Line</i> <i>Youth America Hotline   Your Life Counts</i>	Online listeners 800-448-3000 988 Online chat 800-843-5678 800-RUNAWAY 800-852-8336 877-968-8454	7cups.com boystown.org 988lifeline.org imalive.org missingkids.org 1800runaway.org teenlineonline.org yourlifecounts.org
<b>ALCOHOL/SUBSTANCE ABUSE</b>		
<i>Al-Anon/Alateen (For Families and Friends of Problem Drinkers)</i> <i>Alcoholics Anonymous</i> <i>Substance Abuse and Mental Health Services Administration</i> <i>Narcotics Anonymous</i> <i>National Institute on Alcohol Abuse and Alcoholism</i>	AL-ANON 212-870-5454 1-800-662-HELP (4357) 818-773-9999 niaaa-web-r@exchange.gov	al-anon.alateen.org aa.org samhsa.gov/ na.org nih.gov
<b>ABUSE/HEALTH INFO</b>		
<i>American Heart Association</i> <i>CDC National HIV/AIDS Contact Center</i> <i>CDC National STD Contact Center</i> <i>National Cancer Institute</i> <i>Childhelp National Child Abuse Hotline (Childhelp)</i> <i>National Organization for Rare Disorders</i> <i>Office on Women's Health</i> <i>Poison Control Center</i> (24 hrs.) <i>Rape, Abuse and Incest National Network (RAINN)</i> (24 hrs.) <i>Youth Violence Prevention</i>	800-AHA-USA-1 800-CDC-INFO 800-CDC-INFO 800-4-CANCER 800-4-A-CHILD 800-999-6673 800-994-9662 800-222-1222 800-656-HOPE 800-CDC-INFO	heart.org cdc.gov cdc.gov/std cancer.gov childhelp.org rarediseases.org womenshealth.gov aapcc.org rainn.org cdc.gov/yvprevention
<b>MENTAL HEALTH</b>		
<i>Depression and Bipolar Support Alliance Helpline</i> <i>Mental Health America</i> <i>National Alliance on Mental Illness Information Helpline</i> <i>National Mental Health Consumers Support Charinhouse</i> <i>National Eating Disorders Association Helpline</i> <i>SAFE Alternatives (Self Abuse Finally Ends)</i>	800-826-3632 800-969-6642 800-950-NAMI selfhelp.org 2237 800-DONT-CUT	alliance.org mhanational.org/ nami.org mhselfhelp.org nationaleatingdisorders.org selfinjury.com
<b>SEXUAL ORIENTATION/GENDER IDENTITY</b>		
<i>Lesbian, Gay, Bisexual and Transgender National Youth Talkline</i> <i>LYRIC (Center for LGBTQQ Youth)</i> <i>The Trevor Project Lifeline(LGBTQ Ages 13-24)</i> (24 hrs.)	800-246-7743 415-703-6150 866-488-7386	lgbhotline.org/youth-talkline/ lyric.org thetrevorproject.org

**ASKING FOR HELP IS A SIGN OF STRENGTH, NOT WEAKNESS.**





# HEALTHY LIVING *emergency action steps*

**EMERGENCY ACTION STEPS**

*Adult Life-Saving Steps* → IN THE PANIC OF AN EMERGENCY, YOU MAY BE FRIGHTENED OR CONFUSED ABOUT WHAT TO DO. STAY CALM, YOU CAN HELP. THE THREE "EMERGENCY ACTION STEPS" WILL HELP YOU ORGANIZE YOUR RESPONSE TO THE SITUATION.

1	2	3
CHECK	CALL	CARE
<ul style="list-style-type: none"> <li>→ Check the scene for safety.</li> <li>→ Check the victim for consciousness, breathing, pulse, and bleeding.</li> </ul>	<ul style="list-style-type: none"> <li>→ Dial 9-1-1 or your local emergency number.</li> <li>→ Be prepared to provide the exact address and location of the emergency.</li> </ul>	<ul style="list-style-type: none"> <li>→ Care for the victim.</li> </ul>

Always care for life-threatening conditions first. If there are none:

- Watch for changes in the victim's breathing or consciousness.
- Help the victim rest comfortably.
- Keep the victim from getting chilled or overheated.
- Reassure the victim.

**School Datebooks**

If victim is unable to speak, cough, or breathe. Give abdominal thrusts (if person is conscious).

If victim is not breathing. Give rescue breathing.




Place fist just above the navel and give quick, upward thrusts until object obstructs their breathing is removed.

Tilt head back and lift chin.

Pinch nose shut. Give one slow breath about every 5 seconds.

**If air won't go in – Give abdominal thrusts**



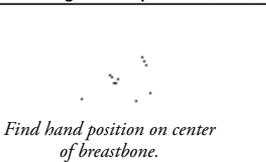
Give up to 5 abdominal thrusts.

Look for and clear any objects from mouth.



Tilt head back and reattempt breaths. Repeat steps until breaths go in.

**If not breathing and no pulse – Give CPR**



Find hand position on center of breastbone.



Compress chest 30 times. Give 2 slow breaths. Repeat sets of compressions and breaths until ambulance arrives.



# HEALTHY LIVING 2025-2026 NCAA Banned Drugs List

It is the student-athlete's responsibility to check with the appropriate or designated athletics staff before using any substance.

## The NCAA bans the following drug classes.

1. Stimulants.
2. Anabolic agents.
3. Beta blockers (banned for golf and rifle).
4. Diuretics and masking agents.
5. Narcotics.
6. Peptide hormones, growth factors, related substances, and mimetics.
7. Hormone and metabolic modulators.
8. Beta-2 agonists.

**Note:** Any substance chemically/pharmacologically related to any of the classes listed above is also banned. All drugs within the banned-drug class shall be considered to be banned regardless of whether they have been specifically identified. Examples of substances under each class can be found at [ncaa.org/drugtesting](http://ncaa.org/drugtesting). There is no complete list of banned substances.

## Substances and methods subject to restrictions:

1. Blood and gene doping.
2. Local anesthetics (permitted under some conditions).
3. Manipulation of urine samples.
4. Tampering of urine samples.
5. Beta-2 agonists (permitted only by inhalation with an exception).

## NCAA nutritional/dietary supplements:

Before a student-athlete consumes a nutritional/dietary supplement or uses any medication, they should review the product and/or medication label with the appropriate athletics department staff.

1. There are no NCAA-approved nutritional or dietary supplements.
2. Nutritional/dietary supplements, including vitamins and minerals, are not well regulated and may cause a positive drug test.
3. Student-athletes have tested positive and lost their eligibility using nutritional/dietary supplements.
4. Many nutritional/dietary supplements are contaminated with banned drugs not listed on the label.
5. While third-party testing and low-level risk products may be options, complete elimination of risk is impossible.
6. All nutritional/dietary supplements are taken at the student-athlete's own risk.

As part of its responsibility to provide education about banned substances, athletics department staff should consider providing information about supplement use and importance. No having nutritional/dietary products evaluate by qualified staff members before consumption. The NCAA has identified Drug Free Sport AXIS™ (AXIS) as a service designed to facilitate student-athlete and institutional review of label ingredients in medications and nutritional/dietary supplements. Contact AXIS at 816-474-7321 or [axis.drugfreesport.com](http://axis.drugfreesport.com) (password: ncaa1, ncaa2 or ncaa3).

**THERE IS NO COMPLETE LIST OF BANNED SUBSTANCES. DO NOT RELY ON THIS LIST AS EXHAUSTIVE OR TO CONFIRM. RULE OUT ANY LABEL INGREDIENT THAT MAY CONTAIN A POTENTIAL BANNED SUBSTANCE.**

Many nutritional/dietary supplements are contaminated with banned substances not listed on the label. It is the student-athlete's responsibility to check with the appropriate or designated athletics and medical staff before using any substance.

## Some examples of substances in each NCAA banned drug class:

### Stimulants:

Amphetamine (Adderall), caffeine (Guarana), Cocaine, Dimethylbutylamine (DMIB), NMP, Dimethylhexylamine (DMHA); Octodrine, Ephedrine, Hephedrine, Hordenine, Lisdexamfetamine (Vyvanse), Methamphetamine, Methylhexanamine (DMAA; Forthane), Methylphenidate (Ritalin), Mephedrone (bath salts), Modafinil, Octopamine, Phenethylamine (PEAs), Phentermine, Synephrine (bitter orange).

Exceptions: Phenylephrine and Pseudoephedrine are not banned.

### Anabolic agents:

Androstenedione, Boldenone, Clenbuterol, Clostebol, DHCMT (Oral Turnabol), DHEA, Drostanolone, Epiptenbolone, Etiocholanolone, Methandienone, Methasterone, Nandrolone (19-nortestosterone), Oxandrolone, SARMS (Ligandrol (LGD-4033); Ostarine; RAD140; S-23), Stanozolol, Stenbolone, Testosterone, Trenbolone.

### Beta blockers (banned for rifle only):

Atenolol, Metoprolol, Nadolol, Pindolol, Propranolol, Timolol.

### Diuretics and masking agents:

Bumetanide, Canrenone (Spirolactone), Chlorothiazide, Furosemide, Hydrochlorothiazide, Probenecid, Triamterene, Trichlormethiazide.

Exception: Finasteride is not banned.

### Narcotics:

Buprenorphine, Dextromoramide, Diamorphine (heroin), Fentanyl and its derivatives, Hydrocodone, Hydromorphone, Meperidine, Methadone, Morphine, Nicomorphine, Oxycodone, Oxymorphone, Pentazocine, Tramadol.

### Peptide hormones, growth factors, related substances

#### and mimetics

BPC-157 (Prokineticin B), Growth hormone (hGH), Human Chorionic Gonadotropin (HCG), Insulin, Somatotropin (EPO), IGF-1 (colostrum; deer antler velvet), Ibutamoren (MK-677), TB-500.

Exceptions: Insulin, Synthroid and Forteo are not banned.

### Hormone and metabolic modulators (anti-estrogens) :

Anti-Estrogen (Elacestrant, Fulvestrant), Aromatase Inhibitors [Anastrozole (Arimidex); ATD (androstatrienedione); Formestane; Letrozole], PPAR-d [GW1516 (Cardarine); GW0742], SERMS [Clomiphene (Clomid); Raloxifene (Evista); Tamoxifen (Nolvadex)].

### Beta-2 agonists:

Albuterol, Formoterol, Higenamine, Salbutamol, Salmeterol, Vilanterol.

Any substance that is chemically/pharmacologically related to one of the above drug classes, even if it is not listed as an example, is also banned.

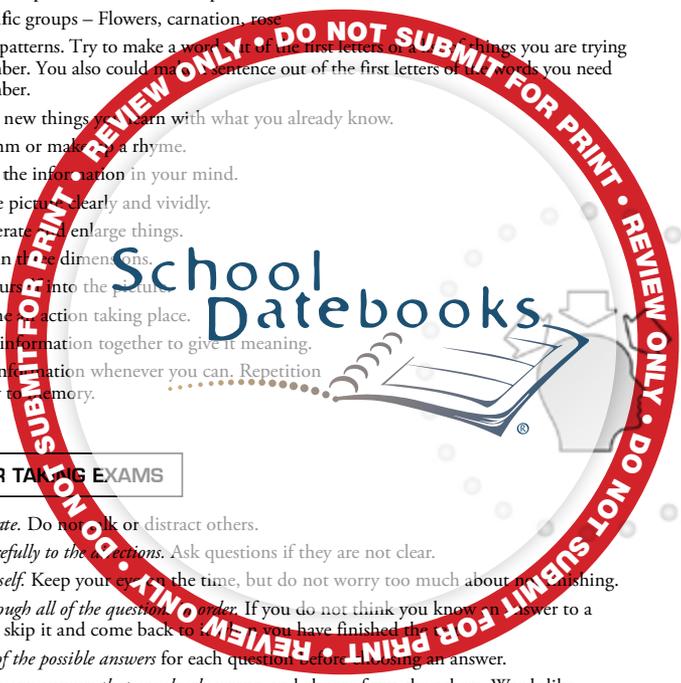
Information about ingredients in medications and nutritional/dietary supplements can be obtained by contacting AXIS at 816-474-7321 or [axis.drugfreesport.com](http://axis.drugfreesport.com) (password: ncaa1, ncaa2 or ncaa3).



# SUCCESS SKILLS *tips for improving your memory & taking standardized tests*

## TIPS FOR IMPROVING YOUR MEMORY

- {1} Keep notes, lists, and journals to jog your memory.
- {2} Decide what is most important to remember by looking for main ideas.
- {3} Classify information into categories. Some categories may be:
  - a. Time – summer, sun, swimming, hot
  - b. Place – shopping center, stores, restaurants
  - c. Similarities – shoes, sandals, boots
  - d. Differences – mountain, lake
  - e. Wholes to parts – bedroom, bed, pillow
  - f. Scientific groups – Flowers, carnation, rose
- {4} Look for patterns. Try to make a word out of the first letters of the things you are trying to remember. You also could make a sentence out of the first letters of the words you need to remember.
- {5} Associate new things you learn with what you already know.
- {6} Use rhythm or make a rhyme.
- {7} Visualize the information in your mind.
  - a. See the picture clearly and vividly.
  - b. Exaggerate or enlarge things.
  - c. See it in different dimensions.
  - d. Put yourself into the picture.
  - e. Imagine an action taking place.
- {8} Link the information together to give it meaning.
- {9} Use the information whenever you can. Repetition is the key to memory.



## TIPS FOR TAKING EXAMS

- {1} *Concentrate.* Do not talk or distract others.
- {2} *Listen carefully to the directions.* Ask questions if they are not clear.
- {3} *Pace yourself.* Keep your eye on the time, but do not worry too much about finishing.
- {4} *Work through all of the questions in order.* If you do not think you know an answer to a problem, skip it and come back to it when you have finished the test.
- {5} *Read all of the possible answers* for each question before choosing an answer.
- {6} *Eliminate any answers that are clearly wrong,* and choose from the others. Words like always and never often signal that an answer is false.
- {7} *If you're required to write a short essay,* quickly jot down an outline to make sure you include all the key points in your answer.
- {8} *When you finish the test, go back through and check your answers for careless mistakes.* Change answers only if you are sure they are wrong or you have a very strong feeling they are wrong.
- {9} *Do not be afraid to guess at a question.* If you have a hunch you know the answer, you probably do!
- {10} *Use all of the time allotted* to check and recheck your test.



# SUCCESS SKILLS *listening & homework skills*

## LISTENING SKILLS

Listening (unlike hearing, which is a physical process that does not require thinking) gives meaning to the sounds you hear. It helps you understand. Listening is an active process that requires concentration and practice. In learning, the instructor’s responsibility is to present information; the student’s responsibility is to be “available” for learning. Not listening means you will be unable to learn the material.

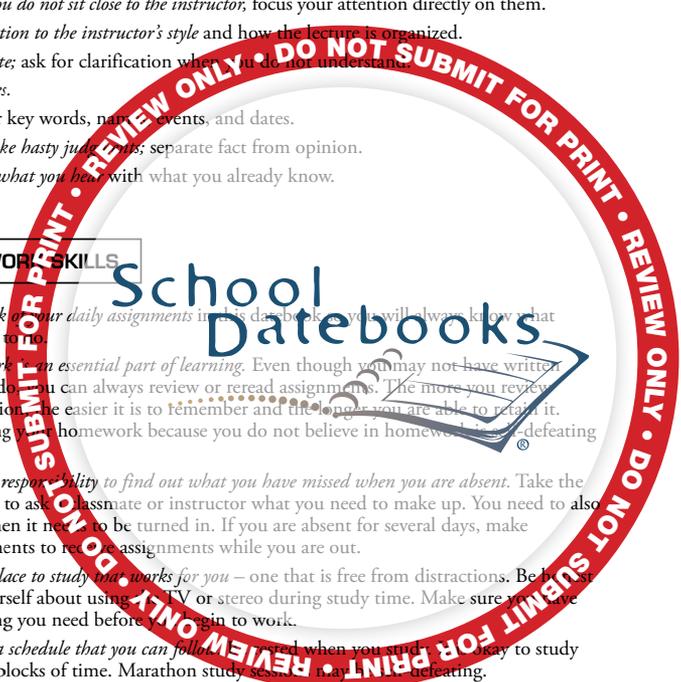
### To help develop listening skills:

- *Approach the classroom ready to learn*; leave personal problems outside the classroom. Try to avoid distractions.
- *Even if you do not sit close to the instructor*, focus your attention directly on them.
- *Pay attention to the instructor’s style* and how the lecture is organized.
- *Participate*; ask for clarification when you do not understand.
- *Take notes*.
- *Listen* for key words, names, events, and dates.
- *Don’t make hasty judgments*; separate fact from opinion.
- *Connect what you hear* with what you already know.

## HOMEWORK SKILLS

# School Datebooks

- *Keep track of your daily assignments* in this datebook so you will always know what you have to do.
- *Homework is an essential part of learning*. Even though you may not have written work to do, you can always review or reread assignments. The more you review information, the easier it is to remember and the longer you are able to retain it. Not doing homework because you do not believe in homework is a defeating behavior.
- *It is your responsibility to find out what you have missed when you are absent*. Take the initiative to ask a classmate or instructor what you need to make up. You need to also know when it needs to be turned in. If you are absent for several days, make arrangements to receive assignments while you are out.
- *Have a place to study that works for you* – one that is free from distractions. Be honest with yourself about using TV or stereo during study time. Make sure you have everything you need before you begin to work.
- *Develop a schedule that you can follow* and stick to it. Schedule time to study in short blocks of time. Marathon study sessions are a defeating behavior.
- *Prioritize your homework* so that you begin with the most important assignment first: study for a test, then do the daily assignment, etc.
- *Study for 30-40 minutes at a time*, then take a 5-10 minute break. Estimate the amount of time it will take to do an assignment and plan your break time accordingly.

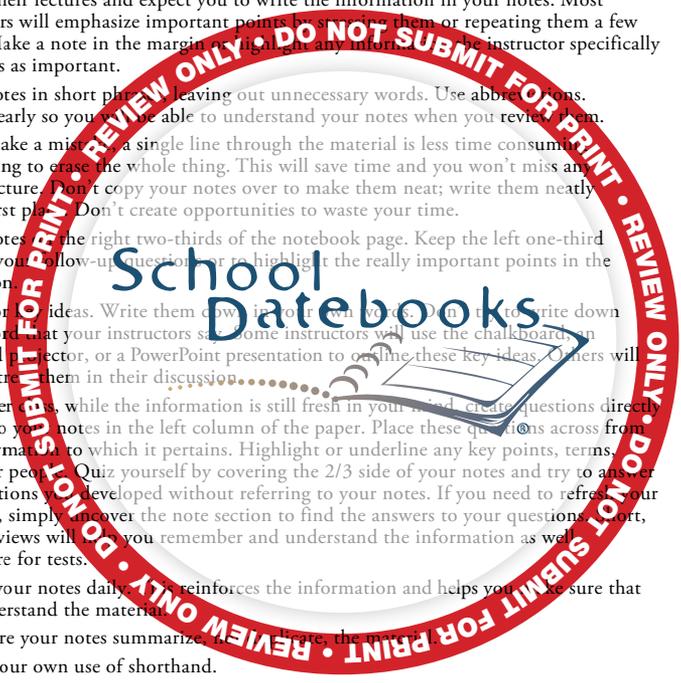




# SUCCESS SKILLS *successful notetaking*

## SUCCESSFUL NOTETAKING

- Taking notes reinforces what we hear in the classroom and requires active listening. Having accurate information makes your outside study and review time that much easier. Good notetaking requires practice.
- Be aware of each instructor's lecture style; learning how to adapt to each style takes patience. Take notes as you (attentively) listen to the lecture. Keep notes in an individual notebook for each class or in a loose-leaf binder that has a section for each class. Your instructor may have certain requirements.
- Date each day's notes, and keep them in chronological order. Some instructors provide outlines that tell you how a series of lectures will be organized; other instructors will deliver their lectures and expect you to write the information in your notes. Most instructors will emphasize important points by stating them or repeating them a few times. Make a note in the margin or highlight any information the instructor specifically identifies as important.
- Write notes in short phrases, leaving out unnecessary words. Use abbreviations. Write clearly so you will be able to understand your notes when you review them.
- If you make a mistake, a single line through the material is less time consuming than trying to erase the whole thing. This will save time and you won't miss any of the lecture. Don't copy your notes over to make them neat; write them neatly in the first place. Don't create opportunities to waste your time.
- Write notes in the right two-thirds of the notebook page. Keep the left one-third free for your follow-up questions or to highlight the really important points in the discussion.
- Listen for key ideas. Write them down in your own words. Don't try to write down every word that your instructors say. Some instructors will use the chalkboard, an overhead projector, or a PowerPoint presentation to outline these key ideas. Others will simply state them in their discussions.
- Soon after class, while the information is still fresh in your mind, create questions directly related to your notes in the left column of the paper. Place these questions across from the information to which it pertains. Highlight or underline any key points, terms, events or people. Quiz yourself by covering the 2/3 side of your notes and try to answer the questions you developed without referring to your notes. If you need to refresh your memory, simply uncover the note section to find the answers to your questions. Short, quick reviews will help you remember and understand the information as well as prepare for tests.
- Review your notes daily. This reinforces the information and helps you be sure that you understand the material.
- Make sure your notes summarize, not restate, the material.
- Devise your own use of shorthand.
- Vary the size of titles and headings.
- Use a creative approach, not the standard outline form.
- Keep class lecture notes and study notes together.





# SUCCESS SKILLS *plan for success*

<b>PLAN FOR SUCCESS</b>	<b>SUCCESSFUL PEOPLE DON'T BECOME SUCCESSFUL BY LUCK. THEIR SUCCESS IS THE RESULT OF SETTING GOALS AND WORKING TO ACHIEVE THOSE GOALS. IN OTHER WORDS, SUCCESSFUL PEOPLE PLAN TO SUCCEED. YOU, TOO, CAN PLAN TO SUCCEED. DON'T PROCRASTINATE. GOOD INTENTIONS WILL NOT HELP YOU SUCCEED. START PLANNING FOR SUCCESS TODAY!</b>
-------------------------	--

**{1} Organization** – Getting organized is the first step to success.

- Remember that you are responsible for knowing about and completing your assignments and special projects.
- Make sure you have a datebook to write down your homework, extracurricular activities, community activities, and other responsibilities.
- Make sure you have all the materials you need when you go to class and when you do your homework.



**{2} Time Management** – Managing your time wisely will help ensure that you have the opportunity to do both the things you need to do and the things you want to do.

- Plan a definite time to do your homework.
- Plan time for extracurricular and social activities, as well as home responsibilities.
- Commit yourself to your time plan, but be flexible. For example, if something happens that makes it impossible for you to do homework during the regularly scheduled time, plan an alternate time to do the homework.

**{3} Set Priorities** – If you are busy, it is important to set priorities.

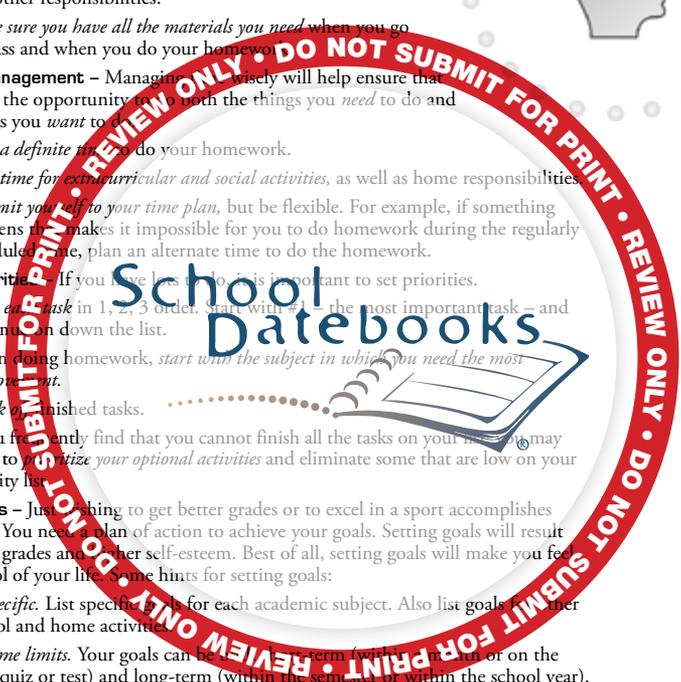
- Rank each task in 1, 2, 3 order. Start with the most important task – and continue down the list.
- When doing homework, start with the subject in which you need the most improvement.
- Check off finished tasks.
- If you frequently find that you cannot finish all the tasks on your list, you may need to prioritize your optional activities and eliminate some that are low on your priority list.

## School Datebooks



**{4} Set Goals** – Just wishing to get better grades or to excel in a sport accomplishes nothing. You need a plan of action to achieve your goals. Setting goals will result in better grades and higher self-esteem. Best of all, setting goals will make you feel in control of your life. Some hints for setting goals:

- Be specific. List specific goals for each academic subject. Also list goals for your school and home activities.
- Set time limits. Your goals can be short-term (within a term) or on the next quiz or test) and long-term (within the semester or within the school year).
- Set realistic goals. For example, if math has always been difficult for you, don't aim for an "A" in Algebra at the beginning of the year. If you usually get a "C-" in math, you may want to begin by setting a short-term goal of "C+" or "B-". Reaching that first short-term goal will give you the confidence to raise your goal for the next test or the next grading period.
- Draw up a step-by-step plan of action for reaching each goal; then go for it!
- Write your goals down, and put them in several places (your bedroom door, your datebook, your bulletin board) so you will see them several times a day.
- Share your goals with others – your parents, roommates, instructors, classmates, etc. They can give you encouragement.
- Keep at it! Be determined, and keep a positive attitude. Visualize yourself achieving your goals.
- Reward yourself when you reach a goal.





# SUCCESS SKILLS *basic résumé writing*

## BASIC RÉSUMÉ WRITING

### The Functional Résumé Format

*The functional format is useful for graduating students who do not have extensive job experience. This type of résumé emphasizes skills and accomplishments achieved in school, activities, internships, and in life.*

*These are the 5 basic parts:*

- (1) **Header:** your name, address, phone number, email address.
- (2) **Job objective:** a short statement describing how you can be of help to the employer and what you intend to do (e.g., sell, design, operate, manage).
- (3) **Qualifications:** a brief list or statement highlighting your background, your strengths, and what you want your employer to know about you. This can be optional.
- (4) **Skills/Achievements:** a description of your abilities, interests, and areas of competence. These can also be grouped under titles, such as *Office Skills, Technical Experience, or Personal Organization.*
- (5) **Education:** a list of all formal education, workshops, seminars, internships, school-related activities, and on-the-job training (if any). The most recent should come first.

### Remember:

- Use only one or two typefaces in the design of your résumé.
- Use short phrases instead of long sentences and paragraphs.
- Line up all headings to keep your résumé looking clean and professional.
- Use good quality paper; A neutral color is a white or ivory is preferred.
- Do not include salary requirements.
- Do not include personal information such as date of birth, height, weight, marital status, health, religion, or hobbies.
- Do not use the word *résumé* at the top of the page.
- Keep your résumé to one page.
- Have a list of references (names, company names, phone numbers) ready to give if requested.

### Use Action Words to Describe Skills

accomplished	charted	evaluated	issued
activated	classified	executed	launched
administered	coordinated	initiated	lectured
advanced	communicated	gathered	monitored
advised	completed	generated	organized
analyzed	computed	guided	outlined
applied	critiqued	implemented	refined
arranged	delegated	improved	reorganized
assembled	designed	initiated	streamlined
attained	determined	instituted	trained
automated	developed	instructed	updated
budgeted	devised	introduced	utilized
calculated	established	invented	wrote



# SUCCESS SKILLS *basic résumé writing*

## SAMPLE RÉSUMÉ

### Joe Anybody

**Campus Address**  
44 Residence Hall Drive  
Campus Town, OH 45628  
(123) 987-6543  
j.anybody@cn.ac.com

**Permanent Address**  
1234 Oak Street  
Anytown, MD 21113  
(555) 123-4567  
<http://www.mywebsite.html>

**OBJECTIVE** A web design position that allows me to utilize my computer graphic and illustration skills and apply my knowledge of the online sales industry.

**EDUCATION** *State University, Campus Town, OH* May 2016  
School of Technology Major GPA: 2.5/4.0  
Bachelor of Science in Graphic Design GPA: 3.6/4.0  
Visual Communication Design minor

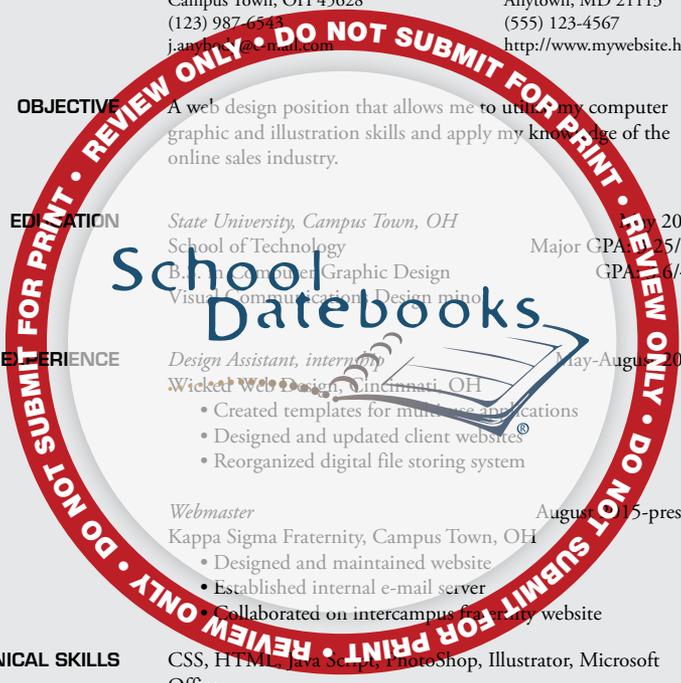
**EXPERIENCE** *Design Assistant, internship* May-August 2015  
*Wicked Web Design, Cincinnati, OH*  
• Created templates for multiple applications  
• Designed and updated client websites®  
• Reorganized digital file storing system

*Webmaster* August 2015-present  
Kappa Sigma Fraternity, Campus Town, OH  
• Designed and maintained website  
• Established internal e-mail server  
• Collaborated on intercampus fraternity website

**TECHNICAL SKILLS** CSS, HTML, Java Script, Photoshop, Illustrator, Microsoft Office

**MEMBERSHIPS**  
• Kappa Sigma Fraternity  
• Student Volunteer Outreach Summit  
• Campus Town Big Brothers/Big Sisters

**REFERENCES** Available upon request





# SUCCESS SKILLS *helpful hints*

## THE SUCCESSFUL STUDENT'S

# —(BAG OF SKILLS)—

### LAUDABLE LISTENING

- Concentrate on what the instructor says.
- Avoid distractions.
- Pay attention to the lecture, and take good notes.
- Participate! Ask questions if you don't understand.
- Listen for key words, names, events, and dates.
- Don't assume or judge. Separate fact from opinion.
- Connect what you hear to what you already know.

### HEALTHY HOMEWORK SKILLS

- Use this notebook to track your daily assignments.
- If you're absent, get assignments from a classmate.
- Develop a routine for completing your homework. Set aside a time, choose a place; have your supplies at hand; and turn off the TV or music.
- Study in blocks of time (if that works best for you).
- Begin with your most important assignments first.
- Take breaks periodically to refresh yourself and review what you've learned.

School Datebooks

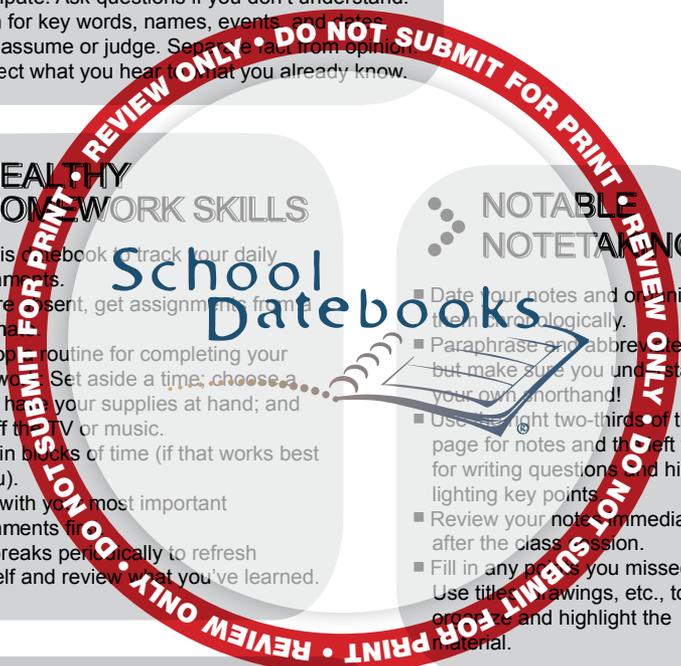
### NOTABLE NOTETAKING

- Date your notes and organize them chronologically.
- Paraphrase and abbreviate – but make sure you understand your own shorthand!
- Use the right two-thirds of the page for notes and the left third for writing questions and highlighting key points.
- Review your notes immediately after the class session.
- Fill in any points you missed. Use titles, drawings, etc., to organize and highlight the material.

### A MEMORABLE MEMORY

- Use a variety of avenues (listening, notetaking, reading, online resources, etc.) to improve your chances of retaining the material.
- Look for the main ideas, then find out how they all relate.
- Use mnemonic devices. For example, make a word out of the first letters of the items you are trying to remember. To remember the five Great Lakes, think of HOMES: Huron, Ontario, Michigan, Erie, and Superior.

- Make up rhymes using the information you want to remember.
- Visualize the information or make up a story using the different facts you must recall.
- Use and review the information as often as you can because repetition is the key to a good memory.





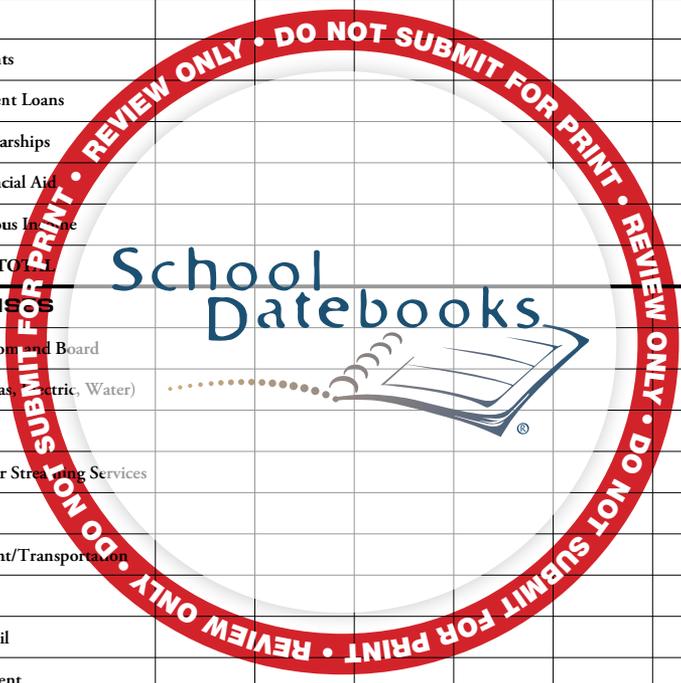
# SUCCESS SKILLS *keeping a monthly budget*

Learning how to manage your money is an important step in becoming financially independent. It's never too early to start keeping a budget. Use this budget worksheet to determine your income and expenses. If you need to cut back on spending, little bits add up.

→ When dining out with friends, don't order a soda; drink water instead.

- Skip costly coffeehouses and brew your own at home.
- Save money on gas and parking by walking to class or carpooling with pals.
- Many communities offer paying recycling programs, so cash in those cans.
- Consider trimming "extras" that add up, such as streaming services or eating out.

Category	Monthly Budget	Monthly Actual	Semester Budget	Semester Actual	School Yr. Budget	School Yr. Actual
<b>INCOME</b>						
From Jobs						
From Parents						
From Student Loans						
From Scholarships						
From Financial Aid						
Miscellaneous Income						
<b>INCOME TOTAL</b>						
<b>EXPENSES</b>						
Rent or Room and Board						
Utilities (Gas, Electric, Water)						
Cell phone						
Cable TV or Streaming Services						
Groceries						
Car Payment/Transportation						
Insurance						
Gasoline/Oil						
Entertainment						
Eating Out/Vending						
Tuition						
Books						
School Fees						
Computer Expense						
Miscellaneous Expense						
<b>EXPENSES TOTAL</b>						
<b>NET INCOME</b> (Income minus expenses)						





# SUCCESS SKILLS *manual alphabet*

## AMERICAN SIGN LANGUAGE



A



B



C



D



E



F



G



H



I



J



K



L



M



N



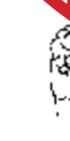
O



P



Q



R



S



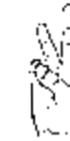
T



U



V



W



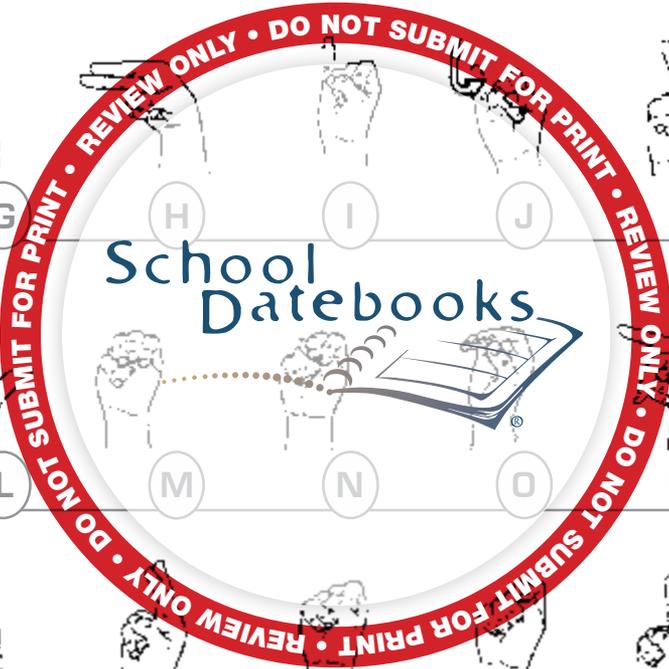
X



Y



Z





# CHARACTER *defining character*

## What's CHARACTER all about?

*"Character is power."* ~ BOOKER T. WASHINGTON

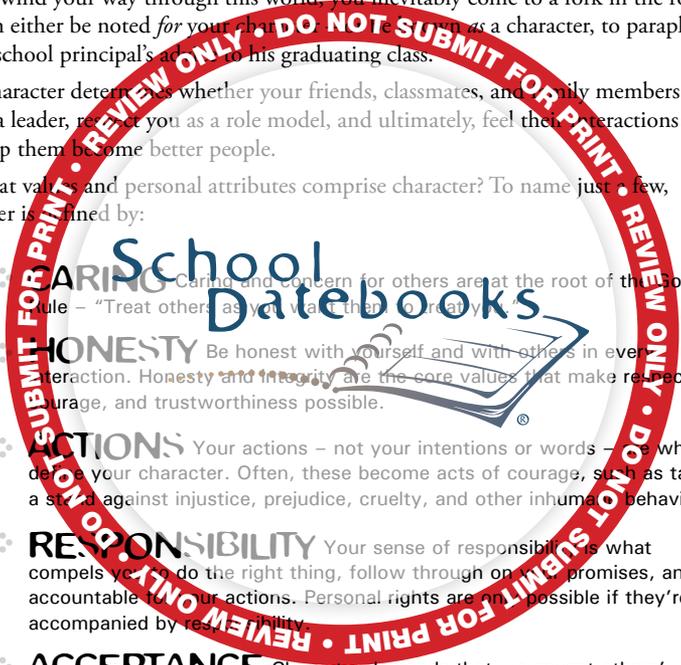
*"What lies behind us and what lies before us are small matters compared to what lies within us."* ~ RALPH WALDO EMERSON

As you wind your way through this world, you inevitably come to a fork in the road: You can either be noted *for your character* as a character, to paraphrase a high school principal's address to his graduating class.

Your character determines whether your friends, classmates, and family members see you as a leader, respect you as a role model, and ultimately, feel their interactions with you help them be some better people.

But what values and personal attributes comprise character? To name just a few, character is defined by:

- C** ● **CARING** Caring and concern for others are at the root of the Golden Rule – “Treat others as you would want them to treat you.”
- H** ● **HONESTY** Be honest with yourself and with others in every interaction. **Honesty and integrity** are the core values that make respect, courage, and trustworthiness possible.
- A** ● **ACTIONS** Your actions – not your intentions or words – what define your character. Often, these become acts of courage, such as taking a stand against injustice, prejudice, cruelty, and other inhuman behaviors.
- R** ● **RESPONSIBILITY** Your sense of responsibility is what compels you to do the right thing, follow through on your promises, and be accountable for your actions. Personal rights are as possible if they're accompanied by responsibility.
- A** ● **ACCEPTANCE** Character demands that we accept others' differences and appreciate how diversity strengthens our society.
- C** ● **CITIZENSHIP** People of strong moral character don't sit on the sidelines. Contribute your “fair share” – participate fully as a concerned student, volunteer, and voter.
- T** ● **TRUSTWORTHINESS** Trust can't be granted; it can only be earned. Deliver on your promises. Act honestly at every turn.
- E** ● **EMPATHY** When you empathize with others, you go beyond kindness and caring; you truly begin to see the world from someone else's perspective.
- R** ● **RESPECT** Respect for yourself and for others is an integral component of character. Without respect, caring and empathy are empty expressions. Respect is what enables us to accept and appreciate others' differences.







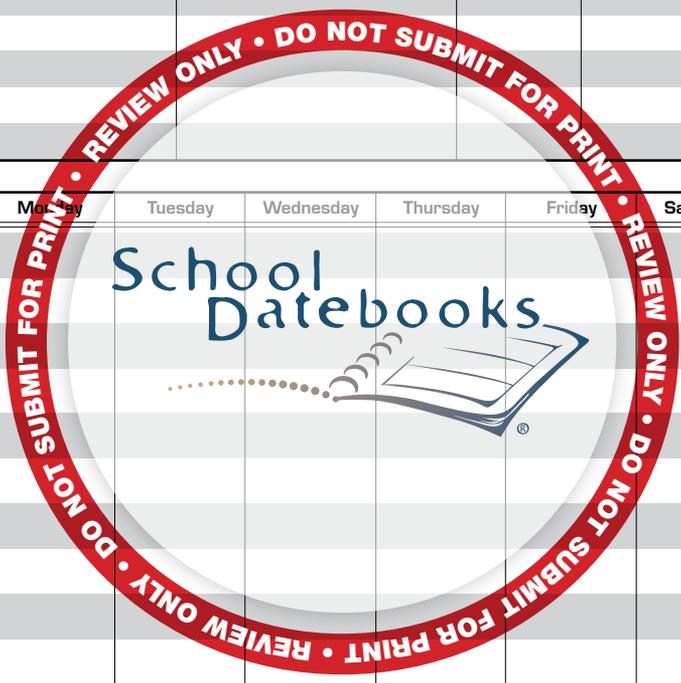


# CLASS SCHEDULE *second semester*

**SECOND SEMESTER**

Subject	Instructor	Office	Telephone

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
7:00						
8:00						
9:00						
10:00						
11:00						
12:00						
1:00						
2:00						
3:00						
4:00						
5:00						
6:00						
7:00						
8:00						
9:00						











# ADVANCE PLANNING

AUGUST 2027

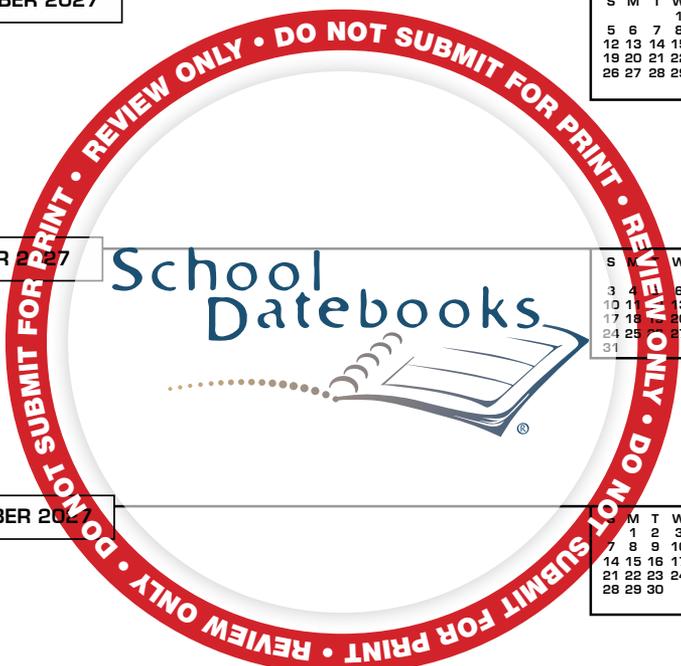
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

SEPTEMBER 2027

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

OCTOBER 2027

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						



NOVEMBER 2027

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

DECEMBER 2027

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31



# CALENDAR YEARS

## 2026

January	S 1 4 5 6 7 8 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	February	S 1 2 3 4 6 7 8 9 10 11 12 15 16 17 18 19 20 21 22 23 24 25 26 27 28	March	S 1 2 3 4 5 6 7 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	April	S 1 2 3 4 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
May	S 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	June	S 1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	July	S 1 2 3 4 5 6 7 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	August	S 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
September	S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	October	S 1 2 3 4 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	November	S 1 2 3 4 5 6 7 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	December	S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

## 2027

January	S 1 2 3 4 5 6 7 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	February	S 1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	March	S 1 2 3 4 5 6 7 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	April	S 1 2 3 4 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
May	S 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	June	S 1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	July	S 1 2 3 4 5 6 7 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	August	S 1 2 3 4 5 6 7 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
September	S 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	October	S 1 2 3 4 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	November	S 1 2 3 4 5 6 7 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	December	S 1 2 3 4 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

## 2028

January	S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	February	S 1 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	March	S 1 2 3 4 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	April	S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
May	S 1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	June	S 1 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	July	S 1 2 3 4 5 6 7 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	August	S 1 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
September	S 1 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	October	S 1 2 3 4 5 6 7 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	November	S 1 2 3 4 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	December	S 1 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31





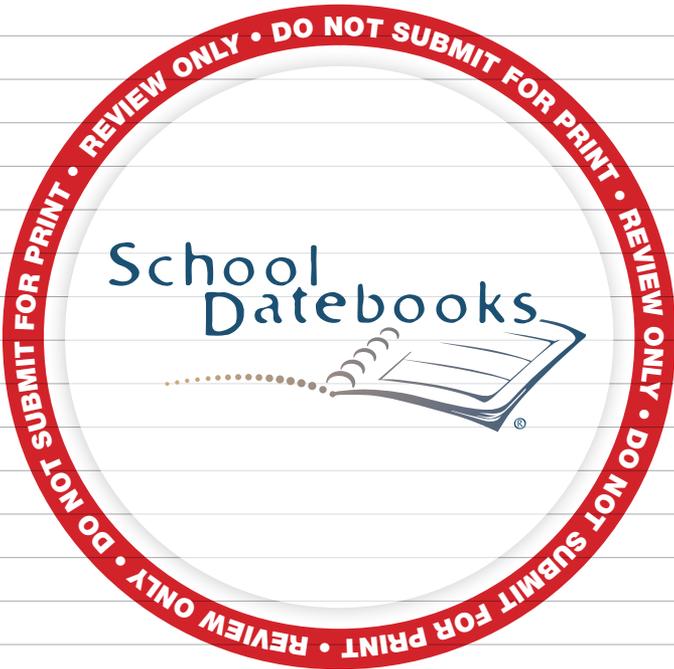
# IMPORTANT DATES *United States*

	2026	2027	2028
<i>New Year's Day*</i>	Thurs., Jan. 1	Fri., Jan. 1	Sat, Jan 1
<i>Martin Luther King Jr. Day*</i>	Mon., Jan. 19	Mon., Jan. 18	Mon, Jan 17
<i>Groundhog Day</i>	Mon., Feb. 2	Tues., Feb. 2	Wed, Feb 2
<i>Lunar New Year</i>	Tues., Feb. 17	Sat., Feb. 6	Wed, Jan 26
<i>Lincoln's Birthday</i>	Thurs., Feb. 12	Fri., Feb. 12	Sat, Feb 12
<i>Valentine's Day</i>	Sat., Feb. 14	Sun., Feb. 14	Mon, Feb 14
<i>Presidents' Day*</i>	Mon., Feb. 16	Mon., Feb. 15	Mon, Feb 21
<i>Washington's Birthday</i>	Sun., Feb. 22	Mon., Feb. 22	Tues, Feb 22
<i>Ash Wednesday</i>	Wed., Feb. 18	Wed., Feb. 10	Wed, Mar 1
<i>Daylight saving time begins</i>	Sun., Mar. 8	Sun., Mar. 14	Sun, Mar 12
<i>St. Patrick's Day</i>	Tue., Mar. 3	Wed., Mar. 17	Fri, Mar 17
<i>First day of spring</i>	Fri., Mar. 20	Sat., Mar. 20	Sun, Mar 19
<i>April Fools' Day</i>	Wed., Apr. 1	Thurs., Apr. 1	Sat, Apr 1
<i>Palm Sunday</i>	Sun., Mar. 29	Sun., Mar. 29	Sun, Apr 9
<i>Passover begins at sundown</i>	Wed., Apr. 1	Wed., Apr. 21	Mon, Apr 10
<i>Good Friday</i>	Fri., Apr. 3	Fri., Mar. 26	Fri, Apr 14
<i>Easter</i>	Sun., Apr. 5	Sun., Mar. 28	Sun, Apr 16
<i>Earth Day</i>	Wed., Apr. 22	Thurs., Apr. 22	Sat, Apr 22
<i>Cinco de Mayo</i>	Tues., May 5	Wed., May 5	Fri, May 5
<i>Mother's Day</i>	Sun., May 10	Sun., May 9	Sun, May 14
<i>Memorial Day</i>	Mon., May 25	Mon., May 31	Mo, May 29
<i>Flag Day</i>	Sun., June 14	Mon., June 14	Wed, Jun 14
<i>Father's Day</i>	Sun., June 21	Sun., June 20	Sun, Jun 18
<i>Juneteenth*</i>	Fri., June 19	Sat., June 19	Mon, Jun 19
<i>First day of summer</i>	Sun., June 21	Mon., June 21	Tues, Jun 20
<i>Independence Day*</i>	Sat., July 4	Sun., July 4	Tue, Jul 4
<i>Labor Day*</i>	Mon., Sept. 7	Mon., Sept. 6	Mon, Sept 4
<i>Patriot Day</i>	Fri., Sept. 11	Sat., Sept. 11	Mon, Sept 11
<i>Rosh Hashanah begins at sundown</i>	Fri., Sept. 11	Fri., Oct. 1	Wed, Sept 20
<i>First day of autumn</i>	Tues., Sept. 22	Thurs., Sept. 23	Fri, Sept 22
<i>Yom Kippur begins at sundown</i>	Sun., Sept. 20	Sun., Oct. 10	Fri, Sept 29
<i>Columbus Day*</i>	Mon., Oct. 12	Mon., Oct. 12	Mon, Oct 9
<i>Indigenous Peoples Day</i>	Mon., Oct. 12	Mon., Oct. 21	Mon, Oct 9
<i>Halloween</i>	Oct. 31	Oct. 31	Tues, Oct 31
<i>Standard time begins</i>	Sun., Nov. 1	Sun., Nov. 7	Sun, Nov 5
<i>Election Day</i>	Tues., Nov. 3	Tues., Nov. 2	Tues, Nov 7
<i>Veterans Day*</i>	Wed., Nov. 11	Thurs., Nov. 11	Sat, Nov 11
<i>Thanksgiving*</i>	Thurs., Nov. 26	Thurs., Nov. 25	Thurs, Nov 23
<i>Hanukkah begins at sundown</i>	Fri., Dec. 4	Fri., Dec. 24	Tues, Dec 12
<i>First day of winter</i>	Mon., Dec. 21	Tues., Dec. 21	Thurs, Dec 21
<i>Christmas*</i>	Fri., Dec. 25	Sat., Dec. 25	Mon, Dec 25
<i>Kwanzaa begins</i>	Sat., Dec. 26	Sun., Dec. 26	Tues, Dec 26

\* Federal Holiday in the United States









## FINANCIAL MANAGEMENT *keeping a monthly budget*

Learning how to manage your money is an important step in becoming financially independent. It's never too early to start keeping a budget. Use this budget worksheet to determine your income and expenses. If you need to cut back on spending, little bits add up.

- ➔ When dining out with friends, don't order a soda; drink water instead.
- ➔ Skip costly coffeehouse and brew your own at home.
- ➔ Save money on gas and parking by walking to class or carpooling with pals.
- ➔ Many communities offer paying recycling programs, so cash in those cans.
- ➔ Consider trimming "extras" that add up, such as a cell phone entertainment.

Category	Monthly Budget	Monthly Actual	Semester Budget	Semester Actual	School Year Budget	School Year Actual
<b>INCOME</b>						
From Job						
From Parents						
From Student Loans						
From Scholarships						
From Financial Aid						
Miscellaneous Income						
<b>INCOME TOTAL</b>						
<b>EXPENSES</b>						
Rent or Room and Board						
Utilities (Gas, Electric, Water)						
Telephone						
Groceries						
Car Payment/Transportation						
Insurance						
Gasoline/Oil						
Entertainment						
Eating Out/Vending						
Tuition						
Books						
School Fees						
Computer Expense						
Miscellaneous Expense						
<b>EXPENSE TOTAL</b>						
<b>NET INCOME</b> (Income minus expenses)						

