

SUCCESS... PLAN ON IT! 6 0 Have A Great School Year By Planning Successfully. These Important Features Will Help! Subjects can easily be seen across the Current school week, complete with days page for a full, weekly view. Extra space and dates, are at the top of each page. is provided for your unique subjects. A convenient monthly calendar is on the left page. Goals are Check off important! · completed Ample space homework is available to in these record weekly designated goals. spaces. Weekly focus on vocabulary with words often found in college testing. 6 Keep important parent/teacher communication ties strong. Questions and facts on This area is available to record every week will help Structured after-school planning area to important signatures. improve standardized schedule all extra-curricular activities. test scores. This planner belongs to: Name: School: Grade: Homeroom: Phone Number: 6 6 Copyright © 2024–25 Success by Design, Inc. • 2025D 6 All rights reserved. No part of this book may be by SUCCESS BY D Please Recycle reproduced in any form or by any means, including This Planner 3741 Linden SE, Wyoming, MI 49548 photocopying, without written permission of the 1-800-327-0057 • www.successbydesign.com publisher.

STUDY TIPS

How can you make the most of your free time?

Plan ahead! If you get organized and plan a specific time to study each day, you'll get more done in less time, earn better grades, and have more time to spend with friends.

Manage Your Time Wisely

Managing your time isn't always easy! Your planner will help you use your time efficiently and effectively. By organizing your time and planning ahead, you will actually save time.

Do you need some pointers on how to get started? Follow these time management tips and discover that time is really on your side!

- Use your planner to plan ALL of your commitments not just your homework.
- Arrange your time in manageable blocks.
 Be realistic. Allow more time for subjects where you have difficulty or want to improve.
- When is your best time of day? Try to study then.
 You'll do your very best work during this time.
- Balance is the key to time management. Balance your extracurricular activities with academics.
 Don't try to do too much, as it could negatively affect your grades.
- Follow up on the priorities you have set for yourself, and don't let other people or other interests distract you from your goals.

Record Success Just Like Assignments
When you complete an assignment, test,
etc., check it off when finished. There is
nothing more satisfying than seeing concrete
evidence of your accomplishments!

SOAR into the Achievement Zone!

Follow this easy 4-step plan to make sure you do all the work and meet all the commitments that are expected of you at school and after school.

- 1) Schedule every commitment by writing it in this planner on the date it is assigned or the date you'll be completing it. This includes homework, after school activities, social activities, family events, and all other tasks.
- 2) Organize all resources needed to complete each commitment you have recorded. Don't wait until the last minute. Make sure you have everything you need to fulfill your commitments whether it is printer ink to print a report or cookies you promised to bring to an after school meeting.
- 3) Act. Do each commitment to the best of your ability. It is easy to do less than your best, especially when you are busy, but you will be more pleased with yourself if you know you did your best.
- **4) Review** the work you have done and what you accomplished by completing all of your commitments. Continually look for ways to improve!

Don't Rely On Your Memory

For each subject line, record the assignments that are given. Write the due date in the proper area(s)—even if it's due tomorrow! This will help build planning skills by forcing you to develop habits by repetition. If you forget a day or two, don't get discouraged, jump back into the routine!

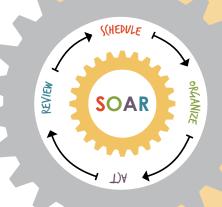
Plan Ahead

- Set aside time each day to read through class notes, complete homework assignments, and plan for the next day.
- You will remember more information and need less time to study for tests because the information will be more familiar to you.

Homework Tips

- Have a scheduled time to do your homework in a place that is free from distractions.
- Have all the supplies you need to complete your work, including pencils, paper, laptops, calculators, etc.
- Prioritize your assignments. Get in the habit of doing the most difficult assignments first before you get too tired. This way your homework gets easier as you go.
- Be neat and complete and check your work for errors.
- Study with someone else. You can help each other.
- Keep contacts in your planner in case you have any questions or missing assignments.

SCHEDULE, ORGANIZE, ACT, REVIEW



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READING AND TECHNOLOGY

Integrating Print and Digital Technologies

Our Brains are Amazing and Complex!

way the brain
learns from paper and
printed material/books is
different than how it learns from
reading on screens such
as phones and tablets.¹

Since books have text that is set in a stationary place, the brain can latch on to that physical space and remember it better. For example,

sentences and paragraphs are set in size, shape and location. A book has set left and right pages that give 8 total physical corners that our minds can remember.

Students in the U.S. report:2

85% multitask when reading DIGITALLY

To the second se

When asked which platform contributes to their best success for reading (print, tablet, e-reader, phone, or computer), 92% of students said they concentrated best when reading in ...

PRINT!

Integration Tips!

However, using technology is important for well-rounded growth. Here are some tips as to how you may integrate your paper planner with technology!

STEP1: In your digital calendar set alerts for events that you will be attending—games, work, family activities, etc. Also, note the time you set aside to do your homework. When you are alerted to do your homework, then you can refer to your Success by Design Student Planner.

STEP 2: Your Student Planner may have preprinted subjects, or you may be able to write in your specific subjects. In this paper planner, you will have the space to write all the details

Screen Reading

- Most reading on a screen is scrolling and moving continuously so your brain doesn't have anything to latch on to and remember as easily!
- Another reason your teacher may have you read or write with paper (and not review and type on screen) is to help your concentration and focus.³
- It has been proven that students are most likely to skim, browse and jump around in an article on screen.¹ Most screen devices have many distractions—alerts and notifications, other programs, Internet interests, music, etc.—all of which pull attention away from the reading.⁴

and information you need to know in order to accomplish your assignments successfully and completely.

For example: Alert yourself digitally, "Do homework from 6–8 p.m.," and then in your planner have written, "Math, pages 76–77, numbers 1–10. Use the new formulas."

See page 21 for in-text citation sources

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DIGITAL AWARENESS

Stav Alert!

With the advancement of technology today, browsing the internet is at our fingertips. Smartphones and tablets are equipped with apps that make communication instant—so instant that texting, checking emails, browsing the internet, messaging, and scrolling social media have become ingrained within our everyday lives.

Social media can be a great way for people to communicate and stay connected online—whether they are within the same household, or across the globe! However, with this amazing ability comes a hefty responsibility. Being connected can be a mix of positive—and sometimes negative outcomes. Learn how to balance online life safely!

WHAT EFFE(T DOES SO(IAL MEDIA HAVE ON YOUR LIFE?

"A plurality of teens (45%) believe social media has neither a positive nor negative effect on people their age, Meanwhile, roughly three-in-ten teens (31%) say social media has had a mostly positive impact. while 24% describe its effect as mostly

TEEN BELIEFS	ON SOCIAL MEDIA	EFFECTS
POSITIVE	NEUTRAL	NEG
31%	45%	24%

Technology & Social Media—A Balancing Act

POSITIVES (THE 400D)

Some positive effects teens listed about social media include:

- Connecting with friends and family
- Convenient news / info source
- Meeting new people with similar interests
- Entertainment
- Self expression
- Support from others
- Learning new things1

By relatively large margins, teens indicate that social media makes them feel:2

69%	26%
confident vs. inse	ecure
64%	33%
authentic vs. fo	ake
61%	34%
outgoing vs. rese	erved

NEGATIVES (THE NOT-SO-400D)

Some negative effects teens listed about social media include:

- Bullying and rumor spreading
- Lack of in-person contact
- Unrealistic views of other's lives

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- Causes distraction / addiction
- Mental health issues
- Peer pressure
- Drama

59% of teens in the U.S. have experienced some type of cyberbullying. Name calling and rumor spreading are top forms.³

Privacy & Security

Passwords: Keeping your passwords secure is important.

- ✓ don't use the same password for multiple accounts avoid sharing your passwords
- create strong passwords by using more characters

Password Tip v

Create a strong password by using numbers, symbols, and upper

and lowercase letters. For example, create a phrase that you can remember, but is random to others, like Sharks24Blue!headphone\$.4

Privacy Settings: Social media apps, web browsers, etc. have various settings you can adjust to maintain security.

- ✓ make your profile private when possible
- ✓ turn current location sharing settings off
- ✓ adjust settings to manually approve photos you are tagged in

Safety: Things are not always the way they seem in an online world. Be vigilant and protect your security!

- ✓ If you suspect somebody has hacked your account, change your password or disable the account.
- Review the newsfeeds for all social media friend requests before you accept a request.

See page 21 for in-text citation sources

Consider This!

- Constant updates on what friends and family are doing make it easy to compare our lives to others. Step away from time online when it's bringing you down. Turn notifications off to avoid constant updates.5
- Phones, tablets, TVs, and computer screens give off blue light, which is similar to daylight. This confuses the body into a state of daytime alertness. Shut off your devices with plenty of time to unwind before bed, so you can get quality, uninterrupted sleep!6
- Think before you post. Once something is on the internet, it can be very difficult or impossible to remove completely. Photos, videos, and words can be seen, shared, and saved by thousands of people, even if unintended.
- While it's easy to stay in touch with your friends and family online, nothing beats in-person contact! Don't forget to set up times to hang out, talk, and do fun activities with your people—phones aside.

GREEN LIVING

Our Planet -

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We live on an amazing planet filled with many different resources! However, as our population grows and technologies advance, our way of life needs to be evaluated.

The earth's water systems, land, and atmosphere are facing pollution and depleting resources. If we don't pay attention to our planet, our planet may not be able to sustain us well in the future!

The World Counts states it this way:

"If Earth's history is squeezed into one year, modern human has existed for 37 minutes and used up a third of Earth's natural resources in the last 0.2 seconds."1



Check out The World Counts' website at www.theworldcounts.com for more information and statistics.

Reduce and Reuse: A Better Way

The latest U.S. government data from 2018 states that out of 292.4 million tons of trash produced only approximately 32.1% was recycled and composted!²

While recycling your CLEAN items is essential, **REDUCING** the need for unnecessary products and packaging is even better! Here are some ideas:

- Stop purchasing bottled water—choose a reusable bottle instead.
- Bring cloth bags when you go shopping instead of using the store's provided plastic bags. (Or skip the bag if you only have a couple of items!)
- Use cloth rags for cleaning (instead of paper towels) and washcloths as napkins.

Green Speak —

Check out these green vocab words!3

food mile: the distance from the area a food item is produced to the area where it is consumed

trashion: fashionable items that are made from used and recycled elements

upcycling: the act of reusing materials to create a new product of higher value or better quality than the original

See page 21 for in-text citation sources

Life with Plastic

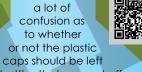
PETE (PET), or #1 plastics, are a strong petroleum-based plastic that is used to make many "disposable" containers such as the common water bottle.

PETE plastics are not biodegradable, so when a water bottle ends up in a landfill, it takes hundreds of years to break down. And during that time, it will simply break into smaller pieces, further polluting the environment.4

PETE bottles with caps (made from PP and HDPE) are ground into "flake" and washed. "PET will sink, PP and HDPE will float." The plastics are then recycling.5

Leave the cap ON!?

There is a lot of confusion as to whether



on bottles that are sent off for recycling. According to The Association of Plastic Recyclers:

'Recycling collection and processing technology has improved, demand for the recyclable material has increased, allowing the current CAPS ON recycling message and process."5* (capitalization emphasis added



POLYETHYLENE TEREPHTHALATE = clear plastic **Examples:** water, soda, mouthwash, and cooking

HIGH DENSITY POLYETHYLENE = stiff plastic; opaque **Examples:** milk jugs, detergent and shampoo bottles, margarine tubs, bottle caps



POLYVINYL CHLORIDE

POLYPROPYLENE

Examples: pipes, hoses, clear medical tubing, vinyl, auto product bottles

LOW DENSITY POLYETHYLENE = flexible plastics **Examples:** squeezable bottles, hand cream bottles, grocery and bread bags



Examples: yogurt tubs, medicine containers. ketchup bottles, kitty litter buckets



Examples: disposable cups, plasticware, coffee cups, packing peanuts, to-go containers

OTHER = combinations of 1-6; less common plastics Examples: toys, sippy cups, cds/dvds, lenses, medical/dental equipment



What Can Plastics Become?





ENGLISH

Parts of Speech

NOUN

Proper nouns are capitalized and refer to specific persons, objects, ideas, or places.

Examples: John, White House, Monday, Slovakia

Common nouns refer to any person, object, place, or idea.

Examples: house, building, boy, city, anger, desk

PRONOUN

A **pronoun** takes the place of a noun.

Example: Tom washed his car on his day off.

VERB

A **verb** shows action or state of being. It also indicates the time of that state or action.

Examples: He worked on Friday. (past)

I need to place the order. (present)

He will present his report tomorrow. (future)

ADJECTIVE

Adjectives describe nouns by modifying them. They can specify color, size, number, etc.

Example: The green van struck the metal pole near the third intersection.

ADVERB

Adverbs are words which describe verbs, other adverbs, or adjectives. They specify in what manner, when, how much, and where.

Example: The crowd reacted violently when it was confronted.

PREPOSITION

Prepositions indicate how nouns and pronouns are related to another word in a sentence.

Examples: Paul stood behind the fence.

The cat jumped onto the bed.

CONJUNCTION

Conjunctions join words, clauses, and phrases.

Examples: Your drink options are either coffee or tea.

John could not react fast enough because of a poorly healed foot.

INTERJECTION

Interjections are words which convey emotion, often indicated by the use of an exclamation point.

Example: Wow! What a beautiful car!

Punctuation

PERIOD

Place a period at the end of a declarative sentence.

Example: We arrive at school each day at 8 am.

In addition, use a period at the end of an imperative sentence that does not express strong emotions.

Example: Sit down.

COMMA

Use commas to separate words and phrases in a series.

Example: Bill has two dogs, one cat, and a hamster.

QUESTION MARK

Use after all interrogative sentences.

Example: Where did you go on vacation?

EXCLAMATION MARK

Use after sentences that express surprise or emotion.

Example: You scared me!

SEMICOLON

Use when a conjunction is omitted; it indicates a greater degree of separation than a comma would.

Example: The road was bumpy and curvy; the scenery grand.

COLON

Colons are used to start a list or to formally introduce a statement.

Example: He has three cars: a Mustang, Camaro, and a Duster.

QUOTATION MARKS

Use quotation marks around a direct quotation.

Example: He said, "I want to go home."

APOSTROPHE

Use an apostrophe to show contracted words such as it's (for it is) or to show possession as in Bill's bike.

Figurative Language

SIMILI

A **simile** is a comparison between unlike things using the words "like" or "as."

Examples: He was motionless like a statue.

She was quiet as a mouse.

HYPERBOLE

A hyperbole is an extended exaggeration.

Example: I have a ton of questions to ask.

A **metaphor** is a comparison between unlike things in which one thing becomes another.

Example: Her eyes were sparkling diamonds.

PERSONIFICATION

Personification is attributing human characteristics to an inanimate object or animal.

Example: The fox begged the hunters to chase him.

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ENGLISH

Capitalization

Capitalize the following—

- 1. The first word in a sentence.
- Days of the week, months, holidays, periods and eras in history, trade names, streets, formal documents, geographical names, political parties, holy days, and official titles.
- Words such as history or math when the words are a part of a specific course. Do not capitalize such words when they indicate a field of study.
- 4. Words such as brother, mother, or doctor when they are a part of the title or when they are a substitute for the noun.
- Points of the compass. Do not capitalize words which indicate simple direction.

- Words which refer to the Supreme Being. Capitalize the word Bible, the books of the Bible, and the names of all holy books or sacred works.
- 7. The first word in a direct quote.
- Words denoting religions, languages, nationalities, and races.
- Names of organizations.
- 10. Degrees, titles, and abbreviations of organized groups.
- The first word of a title, the last word, and all words in between except short conjunctions or prepositions.
- 12. The first word in a greeting or the closing of a letter.

Spelling Rules

1. I before E (field, yield), except after C: (deceive, conceive), or when there's an "ay" sound (weigh, eight).

Exceptions: their, weird, seize, either, receive

2. If a word ends with a "y" and is preceded by a consonant, then the "y" becomes an "i". If the preceding letter is a vowel, the "y" remains unchanged.

Examples: heavy+er = heavier; portray+ed=portrayed

3. On words ending with a consonant preceded by a single vowel (drip, can, begin), double the consonant before adding -ing or -ed.

Examples: drip+ing=dripping, tan+ed=tanned

4. If a word ends with a silent final "e" (bite, move, desire), drop the "e" if the suffix starts with a vowel (ing, ence). Keep the "e" if the suffix starts with a consonant (less, ty).

Examples: use+able=usable; use+ful=useful

Exceptions: argument, judgment, simply, truly, noticeable

Writing Skills

Paragraph Writing



Make a rough outline. Eliminate irrelevant items.

Write the paragraph.

Add the clincher.

A clincher sums-up the paragraph.

Revise and edit.

Make sure sentences flow in an organized fashion. Reword or reorganize information.

Proofread.

Read and correct grammar, spelling, etc.

Write the final copy.

Essay Revising Tips

Finishing an essay is a great feeling! Getting an "A" on your essay is an even better feeling! How are your writing skills? Looking to improve?

Evaluate your past essays. What were your grades? Do you see ways in which you can improve your writing? Don't be afraid to seek the help of teachers for some friendly advice. Here are some tips that can help you bring your essays up to grade "A" standards!

- 1. Read your draft aloud—The simple act of reading your writing out loud, instead of quietly to yourself, will help you catch a surprising amount of errors.
- 2. Did the order make sense? After you've read your draft, evaluate it. Did all your paragraphs, facts, and details fall in the correct order?
- 3. Do you like your paragraphs? Need help writing stellar paragraphs? See "Paragraph Writing" in the column to your left!
- 4. Make improvements—Change at least two things in your essay that will make it better!
- 5. Be sure to proofread—Read over your essay one last time. Be sure to pay attention to punctuation, and remember to run spell-check on your computer!

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ENGLISH

Commonly Misspelled Words

accidentally	consensus	harass	millennium	sergeant
accommodate	coolly	height	noticeable	severely
achievement	definitely	immediately	occasion	specifically
acquitted	despair	inadvertent	occurrence	subpoena
a lot	desperate	incidentally	performance	succeed
anoint	development	independent	permissible	succession
beneficial	embarrassment	indispensable	perseverance	supersede
benefited	eminent	insistent	privilege	their
broccoli	exceed	irresistible	professor	tomorrow
cemetery	existence	irritable	pursue	tyranny
changeable	exhilarate	liquefy	receive	weird
choose	experience	judgment	recommend	yield
chose	fiery	liaison	repetition	
compelled	foreign	Ioneliness	seize	
congratulations	arandeur	memento	separate	

Words Often Confused

accept: accept a gift
except: every day except today

advice: listen to good advice advise: counselors advise students

affect: His speech affected the listeners.

effect: the effect of the sun

already: He already ate.
all ready: He was all ready to leave.

altar: church's altar

alter: alter the clothes; alter the report

angel: angel in heaven angle: a right angle breath: out of breath breathe: breathe fresh air

capital: nation's capital; a capital idea capitol: a capitol building

cite: to cite a source site: a building site sight: a terrible sight to see clothes: to wear clothes

cloths: cloths for cleaning

coarse: a coarse fabric; coarse language

course: a race course; a history course

complement: An attractive tie complements the suit.compliment: He complimented her attitude.

counsel: The teacher gave the student good counsel.

council: The council voted against the action.

desert: a dry, hot desert dessert: pie for dessert

forth: go forth into the crowd fourth: fourth in line

hoping: hoping for a good grade hopping: a hopping rabbit

its: the color of its eyes
it's: It's cloudy outside.

loose: a loose connection; loose clothing

lose: lose a toy

mantel: the fireplace mantel
mantle: (cape or cloak) He put on
the mantle.

passed: passed a test; passed a car
past: lived in the past; past errors

peace: live in peace
piece: piece of cake

precede: The National Anthem precedes the game.proceed: Proceed with your report.

principal: the principal reason; a school's principal principle: the principle of good

quiet: the quiet night quite: quite handsome

right: the right direction rite: the religious rites write: write a letter

shone: The sun shone on the valley. **shown:** He was shown the evidence.

sole: the sole survivor soul: body, soul, and spirit

stationary: a stationary objectstationery: correspondence written on stationery

steal: to steal money
steel: a bridge made of steel

than: bigger than a bread box then: We left then.

there: over there their: their house they're: They're not here.

to: to the car; to cheer
too: I want some too; too often
two: two soft drinks

troop: Boy Scout troop
troupe: a theatrical troupe

wander: He wandered aimlessly. wonder: I wonder what happened.

weak: weak from starvation week: a week from today

weather: hot, humid weather whether: It doesn't matter whether we go or stay.

who's: Who's at the door? whose: Whose house is this?

your: Your feet are dirty.
you're: You're angry.

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MATHEMATICS

Numbers

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PRIME NUMBER

A whole number that has only two factors, itself and 1.

Examples: 2, 5, 7, 11, 17.

COMMON FACTOR

A number that is a factor of two or more numbers.

Examples: 1, 2, and 4 are common factors of the numbers 12 and 16.

GREATEST COMMON FACTOR

The greatest number that is a factor of two or more numbers.

Example: 4 is the greatest common factor of the numbers 12 and 16.

LEAST COMMON MULTIPLE

The smallest number that is a multiple of two or more numbers.

Example: 12 is the least common multiple of the numbers 2, 3, 4, and 6.

NUMERATOR

The number above the line in a fraction.

DENOMINATOR

The number below the line in a fraction.



Roman Numerals

Roman Numerals are numerical symbols formed with the Roman letters I, V, X, L, C, D, and M, representing respectively the numbers 1, 5, 10, 50, 100, 500, and 1000. Once used by the ancient Romans, the system of numbering can still be found today in certain formal contexts.

1	1	19	XIX	100	С
2	II	20	XX	101	CI
3	III	21	XXI	200	CC
4	IV	22	XXII	300	CCC
5	V	23	XXIII	400	CD
6	VI	24	XXIV	500	D
7	VII	25	XXV	600	DC
8	VIII	26	XXVI	700	DCC
9	IX	27	XXVII	800	DCCC
10	Χ	28	XXVIII	900	CM
11	XI	29	XXIX	1000	M
12	XII	30	XXX	1001	MI
13	XIII	40	XL	2000	MM
14	XIV	50	L	2001	MMI
15	XV	60	LX	5000	MMMMM or \overline{V}
16	XVI	70	LXX	5001	MMMMMI or \overline{V} I
17	XVII	80	LXXX	10,00	0 \overline{X} or
18	XVIII	90	XC	MM	MMMMMMM

Multiplication Table

	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

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MATHEMATICS

English/Metric Conversion

Equivalent Measurements

If you know— You can find— By multiplying by

Length	inches	millimeters	25
	feet	centimeters	30
	yards	meters	0.9
	miles	kilometers	1.6
Area	square inches	square centimeters	6.5
	square feet	square meters	0.09
	square yards	square meters	0.8
	square miles	square kilometers	2.6
Mass	ounces	grams	28
	pounds	kilograms	0.45
Liquid Volume	ounces pints quarts gallons	milliliters liters liters liters	30 0.47 0.95 3.8
Temperature	degrees	degrees	subtract 32 and
	Fahrenheit	Celsius	multiply by 5%

English System

1 acre =4840 square (sq) yards 1 sq mile = 640 acres 1 sa feet = 144 sa inches 1 sq yard = 9 sq feet

Length/Distance

1 foot (ft) = 12 inches 1 yard (yd) = 3 feet 1 yard = 36 inches 1 mile (mi) = 1760 yards 1 mile = 5,280 feet 1 nautical mile = 1.15 miles 1 league = 3 miles

Volume

1 tablespoon (T) = 3 teaspoons (t)

Volume (Continued)

1 cup (c) = 16 T1 cup = 8 fluid oz (fl oz) 1 pint (pt) = 2c1 quart (qt) = 2 pt1 auart = 4 c1 auart = 32 fl oz1 gallon (gal) = 4 qt

Weight

1 pound (lb) = 16 oz 1 ton = 2000 lbs

Metric System

 $1 \text{ m}^2 = 10,000 \text{ cm}^2$ 1 hectare (ha) = $10,000 \text{ m}^2$ $1 \text{ km}^2 = 100 \text{ ha}$ 1 metric ton (t) = 1000 kg

Perimeter and Circumference

Perimeter: The distance around an object. Circumference: The distance around a circle.

Polygon: 2(L + W)



Circle: πd or $2\pi r$



Area: L = length; w = width; h = height; s = side; b = base; r = radius

Rectangle: L • w

Parallelogram: b • h



Square: s²



Circle: πr^2



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Trapezoid: $\frac{1}{2}$ (b, + b₂) h



Triangle: ½ b • h



Surface Area and Volume

Surface Area: Find the area of each face and total. Volume of Prisms: Find the area of the base (b) and multiply by the height (h).

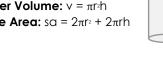
Rectangular Prism: $v = L \cdot w \cdot h$



Cube: $V = S^3$



Cylinder Volume: $V = \pi r^2 h$ **Surface Area:** $sa = 2\pi r^2 + 2\pi rh$



Cone: $v = \frac{1}{3}\pi r^2 h$



Sphere volume: $v = \frac{4}{3}\pi r^3$ Surface Area: $sa = 4\pi r^2$



Triangular Prism: $v = b \cdot h$

Pyramid Volume: Find the area of the base (b); multiply by the height (h); and divide by 3.

Square Pyramid: v = ⅓bh



Triangular Pyramid:





Rectangular Pyramid:





MATHEMATICS

Algebra

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Quadratic Equation—If $ax^2 + bx + c = 0$

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

2a

Special Products—

 $(a - b)^2 = a^2 - 2ab + b^2$ $(a - b)(a + b) = a^2 - b^2$ $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$ $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$ $(a + b)^2 = a^2 + 2ab + b^2$

a(b+c) = ab + ac $(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$ $(a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$

Law of Exponents—If a, b \in r, a, b \ge 0, and p, q, r, s are $\in \mathbb{Q}$ then:

1. $a^{r}a^{s} = a^{r+s}$

6. $a^0 = 1 (a \neq 0)$ 7. $a^{-r} = 1/a^r (a \neq 0)$

3. $(a^r)^s = a^{rs}$ 4. $(ab)^r = a^r b^r$

 $a^{1/2} = \sqrt{a}$ $a^{1/3} = \sqrt[3]{a}$

2. $a^{r}/a^{s} = a^{r-s}$

8. $a^{r/s} = \sqrt[5]{a^r} = (\sqrt[5]{a})^r$

Equations of a Line—(m = slope; b = y intercept)

Slope of a Line: $m = y_2 - y_1$

Slope Intercept Form: y = mx + bPoint Slope Form: $(y - y_1) = m(x - x_1)$

Logarithms—

 $Log x^r = r Log x$ Log(xy) = Log x + Log yLog(x/y) = Log x - Log y $\text{Log } x = n \leftrightarrow x = 10^{n} \text{ (common log)}$ Logax = $n \leftrightarrow x = a^n$ (log to the base a) Ln x = $n \leftrightarrow x = e^n$ (natural log) $\pi \simeq 3.14159265$ $e \simeq 2.71828183$

Variation Models—For variables x, y, and z where k is a positive constant called the constant of variation.

Direct Variation: y = kx or y/x = kInverse Variation: y = k/x or xy = kJoint Variation: z = kxy

Geometry

5. $(a/b)^r = a^r/b^r (b \neq 0)$

Angles and Triangles: All angles of a triangle add up to 180°

Isosceles triangle:

Complementary

add up to 90°

angles: two angles

two sides

angles

egual

equal; two

Right angle: eauals 90°



all sides equal;

Pythagorean Theorem:

sides a and b are leas:

side c is hypotenuse;

Circle Theorems

C is the center of the circle

 $a^2 + b^2 = c^2$ angles. This

applies only

to right

anales.

all angles

eaual

Straight angle: eauals 180°

Obtuse angle: greater than 90° but

less than 180°





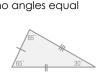
Scalene triangle: no sides equal;

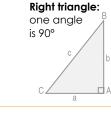


Supplementary

add up to 180°

angles: two angles





Acute angle:

less than 90° but

areater than 0°

Complete angle rotation: equals 360°





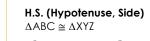
Congruency Cases

S.S.S. (Side, Side, Side)

S.A.S. (Side, Angle, Side)

 $\Delta ABC \cong \Delta DEF$

 $\Delta ABC \cong \Delta KLM$







∠a = ∠b angles subtended

∠x = 90° PQ is a diameter

on the same arc AB

SCIENCE

Measurements of Astronomy

Measurement	Earth	Sun	Moon
Mass (m)	5.98 x 10 ²⁴ kg	1.99 x 10 ³⁰ kg	7.35 x 10 ²² kg
Radius (r)	$6.37 \times 10^3 \text{km}$	6.96 x 10⁵ km	$1.74 \times 10^3 \text{km}$
Average Density	5.52 g/cm ³	1.42 g/cm ³	3.34 g/cm ³

Specific Heat of Common Materials in:

Water	=	4180	Aluminum	=	903	Copper	=	385
Alcohol	=	2450	Carbon	=	710	Brass	=	376
Ice	=	2060	Glass	=	664	Silver	=	235
Steam	=	2020	Iron	=	450	Lead	=	130

Physics Equations				
Density m is mass; v is volume	$D = \frac{m}{v}$	Power W is work; t is time		$P = \frac{W}{\dagger}$
Distance v is velocity; t is time	d = v • †	Momentum m is mass; v is velocity		p = m • v
Acceleration vf is final velocity; vi is initial velocity; t is time	$a = \frac{(vf - vi)}{t}$	Electrical Force Q ₁ , Q ₂ are electrical a d is separation distant k is Coulomb's consta	ce; Fe	$=\frac{(\mathbf{k} \cdot \mathbf{Q}_1 \cdot \mathbf{Q}_2)}{\mathbf{d}^2}$
Distance vi is initial velocity;		k= 9.0 • 10° N •	m ²	
	vi • † + ½ • a • †²	Electric Current Q is electric charge fle t is time	owing;	I = Q

Net Force

m is mass; **a** is acceleration $F = m \cdot a$

F is force; **d** is distance

Kinetic Energy

m is mass; **v** is velocity

K.E. = $\frac{1}{2} \cdot m \cdot v^2$

 $W = F \cdot d$

Force of Gravity G is universal gravitational constant; $\mathbf{m_1}$, $\mathbf{m_2}$ are masses of the two objects; **r** is the distance between the centers of the objects Work

Electrical Energy

V is voltage; I is current; t is time $W = V \bullet I \bullet \dagger$

Power

V is voltage; **I** is current

P = V • I

Electrical Potential Difference

 $V = \frac{W}{Q}$ V is volts; W is work done; Q is electric charge moving

Heat Energy

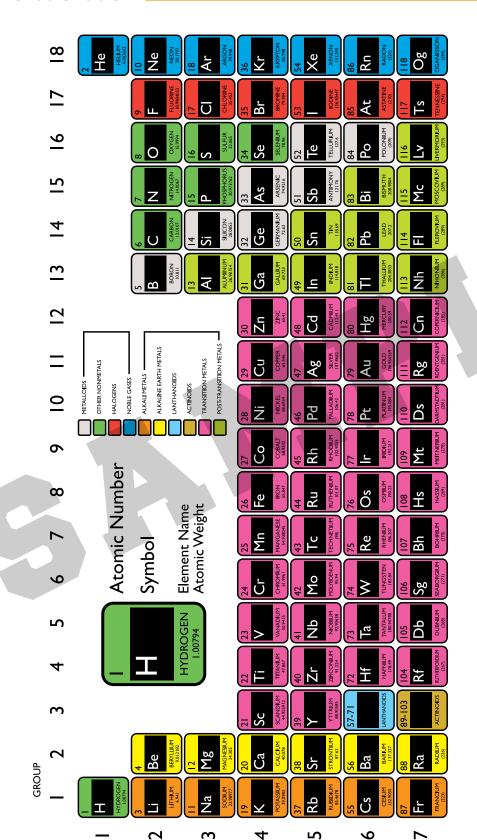
c is specific heat; **m** is mass; $H = c \cdot m \cdot \Delta T$

DT is change in temperature

SCIENCE

The Periodic Table

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CIVICS

Bill of Rights

Amendment I

Religious establishment prohibited. Freedom of speech, of press, and right to petition.

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

Right to bear and keep arms.

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

Conditions for housing soldiers.

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

Right of search and seizure regulated.

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 place to be searched, and the persons or things to be seized.

Amendment V

Provisions for prosecution. Trial and punishment.

Compensation for private property
taken for public use.

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 militia 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

Senate

Fach state has

two senators.

✓ 100 Senators

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

Right to a speedy trial. Witnesses, etc.

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

Right of trial by jury.

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 reexamined in any court of the United States, than according to the rules of common law.

Amendment VIII

Excessive bail or fines. Prohibition of cruel punishment.

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

Amendment IX

Rule of construction of Constitution.

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

Amendment X

Rights of States under Constitution.

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

✓ U.S. District Courts

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white-house/our-government/the-executive-branch/

The United States Government, (2021, January 17), The

usa.gov/branches-of-government.

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CIVICS

Order of Presidential Succession

. The President

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- 2. The Vice President
- 3. Speaker of the House
- 4. President pro tempore of the Senate
- 5. Secretary of State
- 6. Secretary of the Treasury
- 7. Secretary of Defense
- 8. Attorney General
- 9. Secretary of the Interior
- 10. Secretary of Agriculture

- 11. Secretary of Commerce
- 12. Secretary of Labor
- 13. Secretary of Health and Human Services
- 14. Secretary of Housing and Urban Development
- 15. Secretary of Transportation
- Secretary of Energy
- 17. Secretary of Education
- 18. Secretary of Veterans Affairs
- 19. Secretary of Homeland Security

U.S. Presidents

#	President						Republican
		Term Dates	Vice President	#	President	Term Dates	Vice President
1	George Washington	1789–1797	John Adams	27	William H. Taft	1909–1913	James S. Sherman
2	John Adams	1797–1801	Thomas Jefferson	28	Woodrow Wilson	1913–1917	Thomas Marshall
3	Thomas Jefferson	1801–1805	Aaron Burr		Woodrow Wilson	1917–1921	Thomas Marshall
	Thomas Jefferson	1805–1809	George Clinton	29	Warren G. Harding	1921-1923*	Calvin Coolidge
4	James Madison	1809–1813	George Clinton	30	Calvin Coolidge	1923-1925	
	James Madison	1813–1817	Elbridge Gerry		Calvin Coolidge	1925–1929	Charles G. Dawes
5	James Monroe	1817–1825	Daniel D. Thompkins	31	Herbert Hoover	1929–1933	Charles Curtis
6	John Quincy Adams	1825–1829	John C. Calhoun	32	Franklin D. Roosevelt	1933–1937	John N. Garner
7	Andrew Jackson	1829–1833	John C. Calhoun		Franklin D. Roosevelt	1937–1941	John N. Garner
	Andrew Jackson	1833–1837	Martin Van Buren		Franklin D. Roosevelt	1941–1945	Henry A. Wallace
8	Martin Van Buren	1837–1841	Richard M. Johnson		Franklin D. Roosevelt	1945–1945*	Harry S. Truman
9	William H. Harrison	1841-1841*	John Tyler	33	Harry S. Truman	1945–1949	
10	John Tyler	1841–1845			Harry S. Truman	1949–1953	Alben W. Barkley
11	James K. Polk	1845–1849	George M. Dallas	34	Dwight D. Eisenhower	1953–1957	Richard M. Nixon
12	Zachary Taylor	1849-1850*	Millard Fillmore		Dwight D. Eisenhower	1957–1961	Richard M. Nixon
13	Millard Fillmore	1850–1853		35	John F. Kennedy	1961–1963*	Lyndon B. Johnson
14	Franklin Pierce	1853–1857	William R. King	36	Lyndon B. Johnson	1963–1965	
15	James Buchanan	1857–1861	John C. Breckinridge		Lyndon B. Johnson	1965–1969	Hubert Humphrey
16	Abraham Lincoln	1861–1865	Hannibal Hamlin	37	Richard M. Nixon	1969–1973	Spiro Agnew
	Abraham Lincoln	1865–1865*	Andrew Johnson		Richard M. Nixon	1973–1974*	Gerald R. Ford
17	Andrew Johnson	1865–1869		38	Gerald R. Ford	1974–1977	Nelson Rockefeller
18	Ulysses S. Grant	1869–1873	Schuyler Colfax	39	James E. Carter	1977–1981	Walter Mondale
	Ulysses S. Grant	1873–1877	Henry Wilson	40	Ronald Reagan	1981–1985	George Bush
19	Rutherford B. Hayes	1877–1881	William A. Wheeler		Ronald Reagan	1985–1989	George Bush
20	James A. Garfield	1881–1881*	Chester A. Arthur	41	George H. W. Bush	1989–1993	Dan Quayle
21	Chester A. Arthur	1881–1885		42	William J. Clinton	1993–1997	Albert Gore
22	Grover Cleveland	1885–1889	Thomas A. Hendricks		William J. Clinton	1997–2001	Albert Gore
23	Benjamin Harrison	1889–1893	Levi P. Morton	43	George W. Bush	2001–2005	Richard Cheney
24	Grover Cleveland	1893–1897	Adlai E. Stevenson		George W. Bush	2005–2009	Richard Cheney
25	William McKinley	1897–1901	Garret A. Hobart	44	Barack Obama	2009–2013	Joe Biden
	William McKinley	1901–1901*	Theodore Roosevelt		Barack Obama	2013–2017	Joe Biden
26	Theodore Roosevelt	1901–1905		45	Donald Trump	2017–2021	Mike Pence
	Theodore Roosevelt	1905–1909	Charles A. Fairbanks	46	Joe Biden	2021-Present	Kamala Harris

* Did not finish term

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e Branches of the U.	S. Government*	
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his branch makes the laws.	This branch enforces the laws.	This branch interprets the laws.
Congress	President	C Supreme Court
(comprised of):	Ŷ	✓ Nine Justices
Ŷ	Vice President	Other Federal Courts
	Cabinet	✓ U.S. Court of Appeals

15 members that are the heads

Dept. of State

Transportatio

Dept. of the Treasury

Dept. of Veterans

Dent of

of 15 departments:

Dept. of Commerce

Dent of Defense

Dept. of Education

Dept. of Health and

Dept. of Energy

Dept. of Agriculture 7) Dept. of Homeland 11) Dept. of Labor

8) Dept of Housing

Development

Dept. of Justice

Dept. of the Interior

and Urban

population

House of

Representatives

√ 435 Representatives

representatives is

based on the state's

√ The number of



MONTHLY CALENDARS

		J	ULY 202	4	• - te -	
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2	3	4	5	6
7	8	9	10	11	12	13
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21	22	23	24	25	26	27
28	29	30	31			

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AUGUST 2024								
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY		
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11	12	13	14	15	16	17		
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25	26	27	28	29	30	31	(

MONTHLY CALENDARS

SEPTEMBER 2024

7		OC.	TOBER 2	024		7
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		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		

HALL PASS

GRADE: _ NAME: **SEMESTER** SEMESTER Time In & Out Destination Signature Time In & Out Destination Signature

Destination Codes:

R—Restroom, O—Office, L—Locker, LI—Library, G—Guidance, N—Nurse

HALL PASS

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AM	L•					GRADE:		
SEMESTER				SEMESTER				
Date	Time In & Out	Destination	Signature	Date	Time In & Out	Destination	Signature	

Destination Codes:

R—Restroom, O—Office, L—Locker, LI—Library, G—Guidance, N—Nurse