

SAMPLE

STUDENT PLANNER

STUDENT IDENTIFICATION

THIS PLANNER BELONGS TO:

ADDRESS: _____

CITY/TOWN: _____

STATE: _____ ZIP CODE: _____

SCHOOL NAME: _____

PHONE: _____

EMAIL: _____

HOMEROOM: _____

In Case of Emergency Notify:

CONTACT NAME: _____

CONTACT NUMBER: _____



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Use the **big calendar** before each month to help you remember special days at school or home. Read about the STEM-related topic of the month. Doing so will introduce you to the types of questions that will be answered for you throughout the month, along with the STEMazing facts with which you will be presented.

ADVANCE YOUR POSSIBILITIES THROUGH STEM

Most of the time we take for granted all we have because of STEM—science, technology, engineering, and math. As a matter of fact, you might find it surprising where we would be without them! Just imagine a world with no computers, smartphones, medicines to make you feel better when you are sick, or even numbers!

The many features of our STEM Student Planners are meant to enhance your understanding of the growing importance of science, technology, engineering, and math not only in our world but in your own life, too. Today it's more necessary than ever to increase your knowledge about these four subjects. In doing so, you will open doors that advance what is possible for your future.

Find help with subjects like English, Math, and Science on the extra resource pages found in the back of your planner!

HOW TO PLAN FOR SUCCESS

AND UNLOCK YOUR FULL POTENTIAL

1 HOW DO AIRPLANES STAY IN THE AIR?

Airplanes do not have net force impacting them, even as they fly mid-air! Forces such as gravity, thrust, drag, and lift still apply to the airplane, but if these forces remain in balance, the plane stays in flight! The underside of airplane wings is designed to crash into more air molecules than the upper sides when in flight. That force to the bottom of the wings pushes the plane upward! The plane's engine pushes air backward—through a propeller, jet, or combination of the two—sending the plane forward in flight!

Read chapter 10 (pages 40-48) should take 30 min.

Write your daily assignments for each of your classes in these sections. Estimate how long they will take to complete. Check each assignment when finished.

Book report due

Continue working on Science Fair Project

Band Practice

Make sure an adult at home signs your planner every night and uses this section to communicate with your teacher.

It's important to set weekly goals for yourself.

Shop for Jenna's birthday gift. Eat better. Exercise more.

OCT-NOV 2025

WEEKLY GOALS

Transfer unfinished tasks. Did I accomplish my priorities?

In addition to making you more knowledgeable about science, technology, engineering, and math, your STEM Student Planner™ will be a valuable tool in keeping you organized and on track to unlock your full potential. Whether you're a student or working professional, efficient time management is vital to achieving both today's goals and lifelong success. Start by recording your daily, intermediate, and long-term tasks. Segment major projects, and prioritize each step. Be sure to tackle the most challenging task first. These two pages have been designed as a guide to the intended use of your STEM Student Planner.

2 INNOVATION: BUG REPELLENT COATING

Primarily during takeoff and landing, a plane's exterior accumulates bugs and bug juices. This can lead to increased drag, lowering fuel efficiency! Researchers from NASA have worked to develop a special coating that decreases the number of bugs and bug debris on plane wings!

3 CAREER: AEROSPACE ENGINEER

SCIENCE, TECHNOLOGY, ENGINEERING & MATH

Identify and write in any daily goals.

Pay closer attention and take better notes in class

Do all problems on pages 20 & 21 should take 20 min.

Science Fair project due

4 Job Description: Aerospace engineers direct the design, construction, and testing of aircraft. They conduct research to determine the proper materials from which a particular aircraft and its components are manufactured. Individuals in this career path also engineer missiles, spacecraft, satellites, and other aerospace products. Aerospace engineers use precise expertise to create projects that meet engineering, safety, and customer specifications.

5 To Learn More About Becoming an Aerospace Engineer, visit: www.bla.gov, search "aerospace engineers."

6 JUST THE FACTS

- Entry-Level Education Typically Required: Bachelor's Degree
- Median Annual Salary: \$126,880
- Number of Electrical Line Workers in the U.S.: 63,800
- Estimated Job Growth in the Next Decade: 6%

7 AN INTERESTING NOTE...

James Webb Space Telescope is a telescope created to capture images using infrared light. In December 2021 it was launched on an Ariane 5 Launch Vehicle. Scan the QR Code to view a 3D model of the James Webb Space Telescope. (This will take you to a Google search result; click on the "view model" link.)

Test your knowledge by matching the labels to the diagram!

1 SATURDAY

2 PM - Jenna's birthday party

2 SUNDAY

5 PM - Dinner at Grandma's

WHILE UTILIZING YOUR PLANNER, you will notice it focuses on a different STEM-related topic each month. During each week of the month, the various sections listed below will teach you more about careers pertaining to the featured topic:

- 1 QUESTION OF THE WEEK**
Science, technology, engineering, and math are key to unraveling many of life's mysteries. In this section, you will find an answer to a question related to the STEM innovation and a career being featured each week.
- 2 INNOVATION**
Nearly every innovation throughout the course of history owes itself to science, technology, engineering, or math—or, more likely, a combination of the four. In this section, we describe an innovation that has already had a significant impact on society or is likely to do so in the future.
- 3 STEM DESIGNATION(S)**
Here we list for you the STEM subjects—science, technology, engineering, and math—that are most closely related to the question, innovation, and career of the week. While this may sometimes be just one of the four, in many cases you will find they overlap. In such cases, several are listed.
- 4 CAREER / JOB DESCRIPTION**
Careers in STEM are vital to our future. Each week we focus on one you might find interesting and perhaps even one day want to pursue.
- 5 TO LEARN MORE ABOUT BECOMING A ... , VISIT**
Here you are given a website you may visit to learn more about the career of the week. All sites were active when your planner was printed.
- 6 JUST THE FACTS:**
This section provides statistical information on the featured career.
- 7 AN INTERESTING NOTE**
This intriguing and sometimes surprising fact relates to the featured career. A QR code quickly takes readers to the source of the *Interesting Note*. These sources contain images, graphics, charts, activities, and other interactive features.

ART

\ärt\, *noun*

something that is created with imagination and skill and that is beautiful or that expresses important ideas or feelings



Art is all around us! The way we experience objects, locations, products, and services is rooted in art. The chairs on which we sit, the smartphones in our hands, and the buildings we spend time inside would not exist without the art-influenced creativity of designers. Art is in the talents of songwriters and musicians who craft songs we enjoy; it's in the direction and acting that brings movies and TV shows to life; and it's evident in every leap and turn of a ballet dancer's routine.

Many STEM careers revolve around art. Jewelers create wearable works of art for people in the form of necklaces, rings, and bracelets. Medical illustrators create visual representations of how the body functions to better educate the public and assist in court proceedings. Recreational therapists use arts and crafts to help those coping with mental, emotional, and physical problems express themselves and heal.

Are you an artistic person? Do you enjoy being creative? Do you like coming up with new ideas to fulfill everyday needs? Maybe a STEM career focusing on art is in your future!

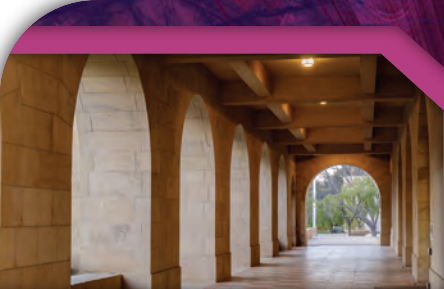
DID YOU KNOW?

August is American Artist Appreciation Month. Regardless of the medium they use, artists enrich our lives through their creative design talents in many ways. The work they create evokes emotion, enhances daily life, entertains, or fulfills practical needs. Take time to look around and appreciate how much of what you see was crafted by the mind of an artist.

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						

SOURCES:
merriam-webster.com
innovationtoolbox.com.au
searchsoa.techtarget.com
businessdictionary.com
creativityatwork.com

MONTHLY GOALS & LONG-TERM ASSIGNMENTS



HOW DO ARCHES STAY UP?

These elegant structures not only stay in place, but withstand tremendous pressure. This is possible due to the arch’s semicircle structure that distributes compression throughout the structure and then diverts weight and force outward to minimize the tension underneath. Modern, strong, construction materials also assist in the ability to expand arches farther and bear heavier loads.

	21 MONDAY	22 TUESDAY	23 WEDNESDAY
LANGUAGE ARTS			
MATHEMATICS			
SCIENCE			
SOCIAL STUDIES			
COMMUNICATION			
Comments:			
Signature:			

JULY 2025

S	M	T	W	T	F	S
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		

WEEKLY GOALS

➤ Transfer unfinished tasks. ✓ Did I accomplish my priorities?

INNOVATION: HANDHELD LASER DISTANCE METER

Architecture requires creativity, accuracy and careful planning. In order to ensure that the measurements are precise and fast, a laser distance meter is a handy tool. These handheld measurement tools provide smart volume and area calculations based on length, width and height, all measured by a laser.

	24 THURSDAY	25 FRIDAY
LANGUAGE ARTS		
MATHEMATICS		
SCIENCE		
SOCIAL STUDIES		
COMMUNICATION		
Comments:		
Signature:		

AN INTERESTING NOTE...

From 1912 to 1948 architecture (along with other arts) was considered an Olympic sport. All entries had to make a connection between art and athletics. The town planning project “Building Plan of a Modern Stadium” was the first gold medal winner. *Scan the QR code to see the stadium.*

(See page 122 for QR Code website references.)



Job Description: An architect is a licensed professional that combines the art and science of building design. Architects not only design the aesthetics of a building, but more importantly, they design the structures to building codes, safety standards, and the purpose for the building’s usage. An understanding of electrical and plumbing design, and HVAC are critical to this work.

To Learn More About Becoming an Architect, visit: www.bls.gov, search “architect.”
Statistics and content accessed early 2024.

JUST THE FACTS

- Entry-Level Education Typically Required: Bachelor’s Degree
- Median Annual Salary: \$82,840
- Number of Architects in the U.S.: 123,700
- Estimated Job Growth in the Next Decade: 5%

26 SATURDAY

27 SUNDAY

DEVELOPMENT

\di-ve-ləp-ment, dē-, *noun*

1. the state of being developed: 2. the act or process of growing, progressing, or developing: 3. developed tract of land



The degree to which a country has been developed significantly impacts its people. In a nation with a sturdy economy and advanced infrastructure, residents can lead longer and healthier lives, be educated, access resources needed for a decent standard of living, and participate fully in their communities.

STEM-related careers play a critical role in economy and infrastructure. From welders who help keep metal structures intact, to railroad workers who ensure train passengers and freight move smoothly from destination to destination, the progress of a town, city, or nation cannot occur without professionals from various fields of study working together and utilizing the latest technologies.

Progress enables fully developed nations like the United States, Canada, Greece, and the United Kingdom to handle ever-growing populations, and it also aids lesser developed areas such as Bangladesh, Ethiopia, and Haiti in raising their standards of living.

DID YOU KNOW?

Labor Day originated in Canada. It stemmed from 1870s labor disputes in Toronto. A parade was held in 1872 in support of a strike against the then 58-hour workweek. The first Labor Day celebration in the U.S. took place in 1882 in New York City’s Union Square. It was held to gain support for reducing the average 12-hour workday to 8 hours.

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				

SOURCES:
merriam-webster.com
thefreedictionary.com
huffingtonpost.com
hdr.undp.org/en/
energy.gov
bls.gov

MONTHLY GOALS & LONG-TERM ASSIGNMENTS



WHAT IS A REGION?

A region is a basic unit of geography. A region is an area of land that has common features such as language, government, wildlife, religion, ecosystems, and human settlements. There are five main climate regions that areas of the globe fall within: tropical, dry, temperate, continental, and polar.

	1MONDAY	2TUESDAY	3WEDNESDAY
LANGUAGE ARTS			
MATHEMATICS			
SCIENCE			
SOCIAL STUDIES			
COMMUNICATION			
Comments:			
Signature:			

SEPTEMBER 2025

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

WEEKLY GOALS

➤ Transfer unfinished tasks. ✓ Did I accomplish my priorities?

INNOVATION: DATA VISUALIZATION SOFTWARE :

Regional planners must consider large amounts of numeric data gathered from censuses, market research, and economic and environmental studies. To make this information clearer, data visualization software is used. This computer software can convert all the data into easy-to-understand visual representations in the form of graphics, charts, and maps.

	4THURSDAY	5FRIDAY
LANGUAGE ARTS		
MATHEMATICS		
SCIENCE		
SOCIAL STUDIES		
COMMUNICATION		
Comments:		
Signature:		

AN INTERESTING NOTE...

The time between the 1890s and 1920s saw a rise in an urban-planning movement known as the “City Beautiful” movement. This concept focused on enhancing a city’s appearance by incorporating a central city square, parks, and grand boulevards, which by default also made them more livable, orderly, and clean. Scan the QR code to read more and see a past and present aerial view of Chicago (reference the first and forth images).

(See page 122 for QR Code website references.)



CAREER: REGIONAL PLANNER

SCIENCE, ENGINEERING & MATH



Job Description: Regional planners create short- and long-term plans that determine the best way to develop land to service communities and manage population growth, while maintaining environmental regulations and historic sites. They identify an area’s need and then write reports detailing current land use and their recommendations regarding new use of land, such as where to build schools, bridges, parks, and roads. They also help communities manage revitalization efforts.

To Learn More About Becoming a Regional Planner, visit: www.bls.gov, search “urban and regional planners.”

Statistics and content accessed early 2024.

JUST THE FACTS

- Entry-Level Education Typically Required: Master’s Degree
- Median Annual Salary: \$79,540
- Number of Regional Planners in the U.S.: 44,700
- Estimated Job Growth in the Next Decade: 4%

6SATURDAY
7SUNDAY

ENERGY

\ 'e-nər-jē \, *noun*

1. fundamental entity of nature that is transferred between parts of a system in the production of physical change within the system and usually regarded as the capacity for doing work: 2. usable power (as heat or electricity); also: the resources for producing such power



Today, energy is critical to every aspect of our lives, and that isn't going to change. The U.S. Energy Information Administration predicts that from 2015 to 2040 world energy consumption will increase by 28%. In America alone, energy use is doubling every 20 years. All of this means that we must learn to use energy more wisely and continue exploring clean and renewable options to reduce our dependency on nonrenewable fossil fuels such as coal, oil, and natural gas, which will one day be depleted. Renewable sources include the sun, wind, and water.

STEM professionals, such as energy engineers, electrical line workers, and fuel cell specialists, for example, are vital to the management and conservation of our current energy sources and the development of better, more diverse ones. It takes numerous people working in concert to ensure the energy sector remains strong.

"No single solution can meet our society's future energy needs," states the Union of Concerned Scientists. "The solution instead will come from a family of diverse energy technologies that share a common thread—they do not deplete our natural resources or destroy our environment."

DID YOU KNOW?

Compared to most people elsewhere, Americans use a lot of energy. The United States, with less than 5% of the global population, uses about a quarter of the world's fossil fuel resources—burning up nearly 25% of the coal, 26% of the oil, and 27% of the world's natural gas. Schools instructing kindergarteners through twelfth graders alone spend over \$6 billion on energy use each year. October is National Energy Action Month—a time set aside to urge us to strive toward greater energy security and a healthier environment.

2025
OCTOBER

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	

SOURCES:
merriam-webster.com
whitehouse.gov
scientificamerican.com
needtoknow.nas.edu
ecology.com
ucsusa.org
bls.gov

eia.gov
aceee.org

MONTHLY GOALS & LONG-TERM ASSIGNMENTS

[illegible]

Job Description: Solar photovoltaic (PV) installers build and install solar panel systems on rooftops and other structures. They plan PV systems based on customer needs; measure, construct, and mount support structures for solar PV panels; connect panels to the electrical system; and activate and test the systems to ensure they're working properly. PV installers also apply weather sealant to the equipment they put in and perform routine system maintenance when needed.

To Learn More About Becoming a Solar Photovoltaic Installer, visit: www.bls.gov, search "solar photovoltaic installers."

Statistics and content accessed early 2024.

JUST THE FACTS

- Entry-Level Education Typically Required: High School Diploma or Equivalent
- Median Annual Salary: \$45,230
- Number of Solar Photovoltaic Installers, in the U.S.: 29,400
- Estimated Job Growth in the Next Decade: 22%

4 SATURDAY

5 SUNDAY

AN INTERESTING NOTE...

In the Sahara Desert, the sun generates over 20 million terawatt hours of energy in a year. That's 100 times more than what we humans use in a year! So why don't we take advantage of this by installing a massive solar farm? *Scan the QR code to watch a video and find out!*

(See page 122 for QR Code website references.)



WEBSITE REFERENCES

Abbreviated references for each month may be found on the monthly spreads. References for each career may be found on the weekly spread, in the section *To Learn More About Becoming a ... Visit: (website references)*. For a full list of references for the weekly content, please see the MSTEM product page on our website, www.successbydesign.com.

These references were verified at the time of production, but changes or redirections may occur.

"AN INTERESTING NOTE" QR CODE WEBSITE REFERENCES*

ARCHITECT

QR Code: <https://architectureau.com/articles/when-architecture-was-an-olympic-sport/>

CURATOR

QR Code: <https://www.artsy.net/article/artsy-editorial-20-curators-cutting-edge-approach-art-history>

MEDICAL ILLUSTRATOR

QR Code: <https://www.ami.org/medical-illustration/learn-about-medical-illustration>

RECREATIONAL THERAPIST

QR Code: <https://www.sjrp.com/services/recovery-therapies/art-therapy/>

INTERIOR DESIGNER

QR Code: <https://blogs.loc.gov/headlinesandheroes/2018/07/elsie-de-wolfe/>

ART DIRECTOR

QR Code: <https://www.canva.com/colors/color-wheel/>

REGIONAL PLANNER

QR Code: <https://www.britannica.com/topic/City-Beautiful-movement>

WELDER

QR Code: <https://www.jfbrennan.com/blog/the-art-of-underwater-welding>

CIVIL ENGINEERING TECHNICIAN

QR Code: <https://www.visualcapitalist.com/top-10-impressive-civil-engineering-projects-time/>

FREIGHT TRAIN CONDUCTOR

QR Code: <https://www.aar.org/wp-content/uploads/2023/06/AAR-Freight-Rail-Climate-Change-Infographic.jpg.webp>

SOLAR PHOTOVOLTAIC INSTALLER

QR Code: <https://www.youtube.com/watch?v=WcLpWmEpQ8>

INSULATOR

QR Code: <https://www.youtube.com/watch?v=zKBD0DLXNs>

ELECTRICAL LINE WORKER

QR Code: https://www.smartgrid.gov/the_smart_grid/smart_grid.html

MATERIALS SCIENTIST

QR Code: <https://www.sciencemag.org/news/2010/01/egyptian-eyeliner-may-have-warded-disease>

AEROSPACE ENGINEER

QR Code: <https://g.co/kgs/B9uIGHz>

BUDGET ANALYST

QR Code: <https://www.financialfootball.com/play/>

ARCHIVIST

QR Code: <https://text-message.blogs.archives.gov/2015/01/22/fool-things-to-do-the-true-story-of-surviving-a-fall-into-the-carlsbad-caverns-national-park-elevator-shaft/>

POLITICAL SCIENTIST

QR Code: <https://www.youtube.com/watch?v=QazmVHA00os>

INTERNAL AUDITOR

QR Code: <https://www.bbc.com/news/business-41582244>

COMPUTER SCIENTIST

QR Code: <https://www.dougengelbart.org/content/view/162/000/>

CRYPTOGRAPHER

QR Code: <https://www.cnn.com/2020/07/25/us/kryptos-secret-message-code-tmd/index.html>

COMPUTER HARDWARE ENGINEER

QR Code: <https://www.computerhistory.org/timeline/computers/>

IT MANAGER

QR Code: <https://www.thelogocreative.co.uk/apple-logo-evolution-it-all-started-with-a-fruit/>

SOFTWARE DEVELOPER

<https://www.nationalgeographic.org/thisday/sep9/worlds-first-computer-bug/>

ANTHROPOLOGIST

QR Code: <https://www.nbcnews.com/science/science-news/dna-links-kennedick-man-skeleton-native-american-tribes-n377291>

CYTOGENETIC TECHNOLOGIST

QR Code: <https://www.pbs.org/genburns/the-gene/the-gene-explained/>

VETERINARY TECHNICIAN

QR Code: <https://www.pdsa.org.uk/what-we-do/blog/10-amazing-facts-about-dogs>

MEDICAL SCIENTIST

QR Code: <https://www.cdc.gov/smallpox/history/history.html>

SHIP ENGINEER

QR Code: <https://www.popularmechanics.com/technology/infrastructure/a24153/ship-propeller-manufacturing/>

WIND TURBINE TECHNICIAN

QR Code: <https://eerscm.usgs.gov/uswtbd/viewer/#3/37.25/-96.25>

TRACTOR-TRAILER TRUCK DRIVER

QR Code: <https://www.thetruckersreport.com/facts-about-trucks/>

HEAVY VEHICLE TECHNICIAN

QR Code: <https://www.youtube.com/watch?v=PcpkH8xaU&t=2s>

AGRICULTURAL ENGINEER

QR Code: <https://www.pbs.org/video/vertical-farming-jdsucc/>

FLAVORIST

QR Code: <https://www.pbs.org/video/why-do-we-eat-artificial-flavors-xxvfr/>

CLINICAL NUTRITIONIST

QR Code: <https://www.myplate.gov/resources/graphics/infographics>

FOOD SAFETY AUDITOR

QR Code: <https://www.fsis.usda.gov/food-safety-safe-food-handling-and-preparation/food-safety-basics/shelf-stable-food>

PARK RANGER

QR Code: <https://www.nps.gov/viis/planyourvisit/maps.htm>

ENVIRONMENTAL ECONOMIST

QR Code: <https://www.worldatlas.com/what-is-acid-rain.html>

ZOOLOGIST

QR Code: <https://www.worldatlas.com/articles/10-famous-zoologists-and-their-contributions.html>

CONSERVATION SCIENTIST

QR Code: <https://www.cnn.com/2021/04/16/world/animal-reintroduction-extinct-wild-c2e-hnk-spc-intl-scn/index.html>

SOIL ENGINEER

QR Code: <https://soillife.org/soil-101/soil-nexus/>

CHIROPRACTOR

QR Code: <https://mayfieldclinic.com/pe-anat spine.htm>

GENERAL PRACTITIONER

QR Code: <https://www.innerbody.com/image/musfov.html>

EMERGENCY MEDICAL TECHNICIAN

QR Code: <https://cpr.heart.org/en/resources/history-of-cpr#1700s>

DERMATOLOGIST

QR Code: <https://www.youtube.com/watch?v=Q9ykLJT-TOY>

PERSONAL FINANCIAL ADVISOR

QR Code: https://americanhistory.si.edu/collections/search/object/nmah_742353

PUBLIC RELATIONS SPECIALIST

QR Code: <https://www.thedrum.com/news/2017/09/15/sony-behind-the-scenes-waterloos-immersive-ghostbusters-campaign>

TRANSLATOR

QR Code: <https://www.gutenberg.org/>

THE EIGHT PARTS OF SPEECH

NOUNS

- **Common nouns** refer to any person, place, thing, or idea.
Examples: boy, school, vegetable, city, government, gloom
- **Proper nouns** are capitalized and refer to specific persons, places, objects, or ideas.
Examples: Amber, Niagara Falls, England, Saturday

PRONOUNS

- A **pronoun** can take the place of a noun.
Example: Bob saw his sister as she walked down the hall.
- There are three kinds of pronouns:
Subjective pronouns such as **he**, **she**, and **it**.
Objective pronouns such as **him**, **her**, or **them**.
Possessive pronouns such as mine, his, hers, and theirs.
Example: **He** (subjective) is looking at **it** (objective) through **his** (possessive) camera.

VERBS

- A **verb** shows action or state of being and indicates the time of that action or state.
Examples: We **watched** the parade. (past)
We **are watching** the parade. (present)
We **will watch** the parade. (future)

PUNCTUATION

- Place a **period** at the end of a sentence.
Example: Andy and his friends visited the museum.
- Use a **period** at the end of an imperative sentence that does not express strong emotion.
Example: Please pick up that piece of paper.
- Use a **question mark** after all interrogative sentences.
Example: Would you like to go to the movies?
- Use an **exclamation mark** after sentences that express surprise or deep feeling.
Example: I can't believe I ran into you today!

THE WRITING PROCESS

Writing involves a number of processes, each of which builds on the step before it. Here are the seven steps of the writing process. There are specific strategies to be implemented at each step.

1. **Pre-Writing:** Writers need a background of material from which to draw words, thoughts, and ideas before they can write. Pre-writing is a brainstorming stage that can be activated through strategies such as semantic webs, word banks, and brainstorming.
2. **First Draft Writing:** Writers determine a purpose and style of writing to give them a direction for their work. One should write freely without undue concern for spelling or grammatical errors at this stage. The focus should be on writing ideas in a logical manner.
3. **Response:** During this step, the writer is given both verbal and non-verbal feedback to his/her writing from a partner, small group,

ADJECTIVES

- **Adjectives** are words that describe nouns and specify size, color, number, and so on. This is called modifying; adjectives are modifiers.
Example: A **large**, **black** dog ran into the **old**, **red** barn.

ADVERBS

- **Adverbs** are words that describe verbs, adjectives, or other adverbs. They specify in what manner, when, where, and how much.
Example: The boy laughed **cheerfully** as he flew the kite.
He was **extremely** happy.

PREPOSITIONS

- **Prepositions** show how a noun or pronoun is related to another word in the sentence.
Examples: He walked **around** the corner.
She stood **near** the building.

CONJUNCTIONS

- **Conjunctions** join words, phrases, or clauses.
Examples: **Neither** he **nor** she was allowed to go to the game.
We yelled at him, **but** he could not hear us.

INTERJECTIONS

- **Interjections** are also known as exclamations and are indicated by the use of the exclamation mark (!).
Example: **Hey!** Look out for that truck!

- Use a **comma** to separate words and phrases in a list.
Example: We bought some socks, two shirts, and a pair of jeans.
- Use a **semi-colon** when a conjunction is omitted; it indicates a greater degree of separation than a comma would.
Example: The water was very rough; our boat rocked back and forth.
- **Double quotation marks** are used around a direct quotation.
Example: "It's nice to meet you," Walter said.
- Use a **colon** to start a list or to formally introduce a statement.
Example: Rebecca has three pets: a dog, cat, and fish.
- Use an **apostrophe** for a contraction, as in hasn't (for has not), or to show possession, as in Mary's game.

teacher, or parent. Response provides the writer with information to help him/her clarify ideas and allows for the recognition of strengths in his/her writing.

4. **Revision:** Writers make their work better through revision by adding detail, descriptive words or phrases, and possibly changing sentence order for variety or clarification.
5. **Editing and Rewriting:** In this stage, mechanical errors are corrected. Written works are first edited by the writer, before rewriting begins. Grammar skills development can be incorporated within this step.
6. **Evaluation:** This step gives the reader a chance to provide feedback to the writer. To make it a maximum growth process, vary the evaluators and the criteria.
7. **Publishing:** Publishing is a way to showcase the author's completed work. Making class books or displaying writing are just two of many publishing activities.

RECOMMENDED WEBSITES FOR HOMEWORK HELP, ETC.

History Channel (www.history.com) – Provides a link to the History Channel home page.

Math.com (www.math.com) – Offers free math lessons and homework help for all grade levels.

National Geographic Kids (www.kids.nationalgeographic.com) – Enables you to tour the natural world (flora, fauna, people, and places) from your computer.

Kid Info (www.kidinfo.com) – Created by a retired teacher, this site offers numerous informational links to subjects covered in most U.S. schools.

Khan Academy (www.khanacademy.org) – Online learning source that provides students with articles, practice questions, and videos to help them further their education in a variety of subjects.

InfoPlease.com (www.infoplease.com) – Lets you conduct searches for specific topics.

*PLEASE NOTE: These websites were active at time of publication.



MAP KEY

- International Boundaries
- Disputed Boundaries
- De Facto Independent Boundaries
- Major Rivers

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- CANADIAN CAPITALS**
- ⊕ Ottawa, Ontario – Canadian Capital
 - AB Alberta – Edmonton
 - BC British Columbia – Victoria
 - MB Manitoba – Winnipeg
 - NB New Brunswick – Fredericton
 - NF Newfoundland – St. John's
 - NT Northwest Territories – Yellowknife

- MEXICO & CENTRAL AMERICA**
- El Salvador – San Salvador
 - Guatemala – Guatemala City
 - Honduras – Tegucigalpa
 - Mexico – Mexico City

- UNITED STATES CAPITALS**
- ⊕ Washington, D.C. – US Capital
 - AL Alabama – Montgomery
 - AK Alaska – Juneau
 - AZ Arizona – Phoenix
 - AR Arkansas – Little Rock
 - CA California – Sacramento
 - CO Colorado – Denver
 - CT Connecticut – Hartford
 - DE Delaware – Dover
 - FL Florida – Tallahassee

- GA Georgia – Atlanta
- HI Hawaii – Honolulu
- ID Idaho – Boise
- IL Illinois – Springfield
- IN Indiana – Indianapolis
- IA Iowa – Des Moines
- KS Kansas – Topeka
- KY Kentucky – Frankfort
- LA Louisiana – Baton Rouge
- ME Maine – Augusta
- MD Maryland – Annapolis
- MA Massachusetts – Boston

- NU Nunavut – Iqaluit
- NS Nova Scotia – Halifax
- ON Ontario – Toronto
- PE Prince Edward Island – Charlottetown
- PQ Quebec – Quebec
- SK Saskatchewan – Regina
- YK Yukon – Whitehorse
- MI Michigan – Lansing
- MN Minnesota – St. Paul
- MS Mississippi – Jackson
- MO Missouri – Jefferson City
- MT Montana – Helena
- NE Nebraska – Lincoln
- NV Nevada – Carson City
- NH New Hampshire – Concord
- NJ New Jersey – Trenton
- NM New Mexico – Santa Fe
- NY New York – Albany
- NC North Carolina – Raleigh

- CARIBBEAN**
(Abbreviated List Based on Map Features)
- Bahamas – Nassau
 - Cuba – Havana
 - Dominican Republic – Santo Domingo
 - Haiti – Port-au-Prince
 - Jamaica – Kingston
 - Nicaragua – Managua
 - Panama – Panama City

- U.S. TERRITORIES**
- AS American Samoa – Pago Pago*
 - GU Guam – Hagåtña*
 - PR Puerto Rico – San Juan
 - MP Northern Mariana Islands – Saipan*
 - VI Virgin Islands – Charlotte Amalie
 - * not featured on this map