ID: e38b3e4f

The radiation that _____ during the decay of radioactive atomic nuclei is known as gamma radiation.

- A. occurs
- B. have occurred
- C. occur
- D. are occurring

ID: 3580533b

In recent years, economists around the world have created new tools that quantify the overall well-being of a country's citizens. Economists in India, for example, use an Ease of Living Index. This tool _____ economic potential, sustainability, and citizens' quality of life.

- A. measures
- B. had measured
- C. would have measured
- D. will have been measuring

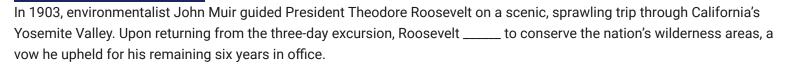
ID: b7363ba2

Mathematician and meteorologist Edward Lorenz used the metaphor of the "butterfly effect" to explain how seemingly minor events can have major impacts on future weather. According to Lorenz's metaphor, the wind from a butterfly flapping _____ in Brazil might eventually grow into a storm elsewhere across the globe.

Which choice	completes the	text so that it	conforms to the	conventions of	Standard English?

- A. its wings
- B. its wings'
- C. it's wing's
- D. it's wings'

ID: 7b419faf



- A. is vowing
- B. vowed
- C. will vow
- D. vows

ID: dbd78791

Led by Syrian American astronomer Shadia Habbal, the Solar Wind Sherpas are an intrepid team of scientists who travel the
globe to study solar winds, the streams of particles emanating from the Sun that are only visible from certain locations
during a total solar eclipse. When such an eclipse is imminent, the Sherpas pack up their telescopes and ready.

- A. get
- B. had gotten
- C. got
- D. were getting

ID: 77bf77cd

Farouk El-Baz, a geologist and space scientist,	part of the team that selected the lunar landing sites for the Apollo
program during the 1960s and 1970s.	

- A. are
- B. was
- C. have been
- D. were

ID: 57998dd3

Obsidian is a kind of volcanic gla	ss formed when lava cools so quickly that the atoms inside it cannot arrange themselves in
a crystalline structure. You	more about obsidian's structure, which is classified as amorphous, in a later chapter.

- A. had learned
- B. had been learning
- C. will learn
- D. have learned

ID: db4e3819



- A. sweep
- B. are sweeping
- C. were sweeping
- D. sweeps

ID: d47bb0a4

Objects ranging from the Kikkoman soy sauce bottle to the Yamaha VMAX motorcycle to the Komachi bullet train
designed by twentieth-century industrial designer Kenji Ekuan.

- A. was
- B. is
- C. has been
- D. were

ID: 69f031ab

While exploring Nevada's Gypsu	m Cave in 1930, Seneca and Abenaki archaeologist Bertha Parker made her most famous
discovery: the skull of a now-ext	inct ground sloth (Nothrotheriops shastensis) alongside human-made tools. Parker's crucial
finding was the first huma	ans in North America as far back as 10,000 years ago.
Which choice completes the tex	t so that it conforms to the conventions of Standard English?
A 1	

- A. places
- B. placed
- C. place
- D. to place

ID: 843f92af

The sun never sets during the Arctic summer in the Far North. In response, reindeer in this region must change their sleep
nabits. Instead of resting when it gets dark, they rest when they need their food.
Which choice completes the text so that it conforms to the conventions of Standard English?

- A. digest
- B. will digest
- C. to digest
- D. digesting

ID: f4fd123c

The African Games	es Co-production Market, one of over 180 annual international conferences supporting video game
development,	the growth of the African gaming industry by helping start-up studios in Africa find partners.

- A. promote
- B. are promoting
- C. promotes
- D. have promoted

ID: 856b495d

In the early twentieth century, Joseph Kekuku and other Hawaiian	_ in the mainland United States to the bright and
lilting sound of the <i>kīkā kila</i> , or Hawaiian steel guitar. The instrument so	oon became a fixture in American blues and country
music.	

- A. musicians introduced audiences
- B. musicians' introduced audiences'
- C. musician's introduced audience's
- D. musicians' introduced audiences

ID: 97b62fab

Smaller than poppy seeds, t	ardigrades are tiny, but they are tough. These minuscule animals can survive for thirty years
without food or water, and _	can withstand extreme temperatures as low as minus 328 degrees and as high as 304
degrees Fahrenheit.	

- A. that
- B. it
- C. they
- D. he

ID: 35360da9

The US Geological Survey wants to map every human-made structure in the United States, and it is asking volunteers to help. Cassie Tammy Wang and Ashish D'Souza are just two of the many volunteer map editors who _____ to the project since it began in 2012.

- A. contribute
- B. will contribute
- C. have contributed
- D. will be contributing

ID: 0ff8477b

Food and the sensation of taste are central to Monique Truong's novels. In *The Book of Salt*, for example, the exiled character of Bình connects to his native Saigon through the food he prepares, while in *Bitter in the Mouth*, the character of Linda _____ a form of synesthesia whereby the words she hears evoke tastes.

- A. experienced
- B. had experienced
- C. experiences
- D. will be experiencing

ID: b260c65a

Earth is not a perfect sphere. Due to the gravi	tational pull, Earth bulges out on the sides closest to and farthest from
the Moon. This distorting pull is known as a tidal for	ce, and it is responsible for the changes in water levels that are called
high and low tides.	

- A. Moon's
- B. Moons
- C. Moons'
- D. Moon

ID: 898f182c

Richard Spikes was a prolific African American inver	ntor known for his contributions to automotive engineering. Between
1907 and 1946, he patented many inventions,	an automobile turn signal, a safety brake, and—most famously—the first
automatic gearshift.	

- A. included
- B. includes
- C. including
- D. will include

ID: 7c48a6dd

In the late 1960s, inspired in part by the sight of laundry hanging on a clothesline, African American abstract painter Sam Gilliam began to create his iconic "Drape" paintings. He applied bold, saturated hues to large canvases and _____ them from ceilings or walls, causing the drooping fabric to cascade in dramatic loops and curves.

- A. to have suspended
- B. suspending
- C. to suspend
- D. suspended

ID: fff4c7f4

American poet Emily Dickinson wrote many of her poems on scraps of paper, but she also took steps to collect these works.
From 1858 to around 1864, for example, she copied more than 800 of into forty homemade booklets (known as fascicles).
Which choice completes the text so that it conforms to the conventions of Standard English?

A. them

B. this

C. that

D. it

ID: 175df826

n the 2011 documentary	The Barber of Birmingham, civil rights activist James Armstrong recounts how his barbershop in
Birmingham, Alabama,	as a political hub for members of the Black community during the 1950s.

- A. serving
- B. having served
- C. served
- D. to serve

ID: e2759b92

D. was

Occupying a significant part of modern-day Nigeria, the Kingdom of Benin was one of the major powers in West Africa
petween the thirteenth and nineteenth centuries. It ruled by Oba Ewuare I from 1440 to 1473.
Which choice completes the text so that it conforms to the conventions of Standard English?
which choice completes the text so that it comorms to the conventions of Standard English:
A. is
B. will be
C. has been

ID: 31362d2d

If simple sugars such as ribose and glycolaldehyde	_ Earth from elsewhere and survived impact—a possibility
astrophysicist Nicolle Zellner outlined in a 2020 study—th	e sugars could have reacted with other molecules that were already
present on the planet to form the nucleotides that are the	structural components of RNA and DNA.

- A. reach
- B. had reached
- C. will reach
- D. are reaching

ID: 1d971f75

Photographer Ansel Adams's landscape portraits are iconic pieces of American art. However, many of the _____ of landscapes were intended not as art but as marketing; a concessions company at Yosemite National Park had hired Adams to take pictures of the park for restaurant menus and brochures.

- A. photographer's early photo's
- B. photographers early photo's
- C. photographer's early photos
- D. photographers early photos

ID: f40ca576

Each year in the fall, when the weather starts to cool in the northern hemisphe	ere, millions of North American monarch
butterflies journey south. Searching for food and warmer habitats, they	thousands of miles—from as far north as
Canada all the way down to Mexico—on this annual migration.	

- A. flew
- B. were flying
- C. had flown
- D. fly

ID: 4c9a2aee

Wanda Diaz-Merced is an astrophysicist who lost her sight when she was young. Diaz-Merced's condition inspired her to develop software that can translate scientific data into sound. Sound-based tools _____ scientists to detect subtle patterns in data. Such patterns may not be evident in traditional graphs.

- A. has enabled
- B. enable
- C. is enabling
- D. enables

ID: 42cc9236

f you try on one of artist Nick Cave's signature Soundsuits, you can expect to swish, rustle, or clang every time you move.
Cave makes his suits out of found objects, everything from ceramic birds to broken record players. He carefully considers
the sound an object makes before using in a suit.

- A. this
- B. that
- C. these
- D. it

ID: 81ac953e

In 1899, Swedish chemist Svante Arrhenius developed an equation to answer a long-standing question: why do chemical reactions speed up at higher temperatures? The Arrhenius equation, named for its creator, _____ an important concept in modern chemistry.

- A. have remained
- B. remain
- C. remains
- D. are remaining

ID: ec08463d

Botanists recognize over fifty different species of sunflower. One species, the silverleaf sunflower,	_ both an early-
flowering ecotype that tends to grow in coastal areas and a late-flowering ecotype that grows inland.	

- A. having included
- B. including
- C. to include
- D. includes

ID: 4a90a978

D. joins

In 1990, California native and researcher Ellen Ochoa left her position as chief of the Intelligent Systems Technology Branch at a NASA research center the space agency's astronaut training program.
Which choice completes the text so that it conforms to the conventions of Standard English?
A. to join
B. is joining
C. joined

ID: 59e41600

Why are Rome's famous concrete structures, such as	s the Colosseum, still standing after 2,000-plus years, when modern
concrete may not even last for fifty? Scientists	that the secret to Roman concrete's durability was its unique blend of
ingredients, which included volcanic ash and seawate	er.

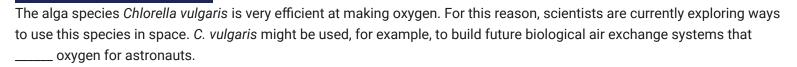
- A. explain
- B. having explained
- C. explaining
- D. to explain

ID: 588887b9

In 1881, French chemist Camille Faure redesigned the rechargeable lead-acid battery. Faure's	design greatly increased the
amount of electricity that the original battery, which the French physicist Gaston Planté	fifteen years earlier, could
hold.	

- A. is inventing
- B. will invent
- C. invents
- D. had invented

ID: 96e5da01



- A. are producing
- B. produced
- C. produce
- D. have produced

ID: 12bd5b75

With its towering, six-spired exterior of granitelike quartz monzonite, the Salt Lake Temple is one of the most instantly recognizable structures in the state of Utah. However, many people do not know that _____ built over the course of forty years, with construction beginning in 1853 and ending in 1893.

Which choice com	npletes the text so t	that it conforms to the	e conventions of	Standard English?

- A. it was
- B. one was
- C. they were
- D. both were

ID: bd11fe93

Dr. Rocío Paola Caballero-Gill is a paleoceanographer. This means that Dr. Caballero-Gill doesn't just study oceans as they
are today. She uses chemistry and fossil evidence oceans as they were in the past.
Which choice completes the text so that it conforms to the conventions of Standard English?

- A. has studied
- B. to study
- C. studied
- D. studies