

A study led by scientist Rebecca Kirby at the University of Wisconsin–Madison found that black bears that eat human food before hibernation have increased levels of a rare carbon isotope, _____ due to the higher ^{13}C levels in corn and cane sugar. Bears with these elevated levels were also found to have much shorter hibernation periods on average.

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

- A. carbon-13, (^{13}C)
- B. carbon-13 (^{13}C)
- C. carbon-13, (^{13}C),
- D. carbon-13 (^{13}C),

Photosynthesis, the mechanism by which plants use sunlight to turn carbon dioxide and water into _____ is fueled in part by an enzyme called Photosystem II that harvests energy-giving electrons from water molecules.

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

- A. nutrients
- B. nutrients and
- C. nutrients,
- D. nutrients—

After a spate of illnesses as a child, Wilma Rudolph was told she might never walk again. Defying all odds, Rudolph didn't just walk, she _____ the 1960 Summer Olympics in Rome, she won both the 100- and 200-meter dashes and clinched first place for her team in the 4x100-meter relay, becoming the first US woman to win three gold medals in a single Olympics.

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

- A. ran—fast—during
- B. ran—fast during
- C. ran—fast, during
- D. ran—fast. During

Po'Pay was a Tewa leader from Ohkay Owingeh, a pueblo located about twenty-five miles north of present-day Santa Fe, New Mexico. He was instrumental in organizing the Pueblo Revolt of _____ as a result of his leadership, the Spanish colonizers were expelled from the region for a time.

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

- A. 1680
- B. 1680 and
- C. 1680,
- D. 1680, and

In 2008, two years after the death of science fiction writer Octavia Butler, the Huntington Library in _____ received a collection of more than 8,000 items, including Butler’s private notes, research materials, manuscripts, photos, and drawings. Today, the Octavia E. Butler Collection is one of the most researched archives at the library.

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

- A. California,
- B. California:
- C. California—
- D. California

Archaeologists have estimated that the pre-Columbian Native American city of Cahokia, located across the Mississippi River from modern-day St. Louis, Missouri, had as many as 20,000 inhabitants in the year 1150 _____ it one of the largest cities in North America at the time.

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

- A. CE making
- B. CE. Making
- C. CE, making
- D. CE; making

Detroit natives Timothy Paule and Nicole Lindsey have combined their two passions, Detroit and beekeeping, to improve the health of their city's flowers and other vegetation. In 2017, the couple converted a vacant lot in the city into an _____ in the years that followed they acquired nine additional lots and established more than 35 hives.

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

- A. apiary,
- B. apiary, and
- C. apiary and
- D. apiary

Santa Clara Pueblo artist Roxanne Swentzell's sculpture *Mud Woman Rolls On* consists of five human figures made of clay and plant fiber and arranged in descending size; each figure holds the smaller one in front of it. The arrangement of the figures, according to _____ represents her idea that "we all come from the Earth, generation after generation."

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

- A. Swentzell
- B. Swentzell,
- C. Swentzell:
- D. Swentzell—

Nine months before Rosa Parks made history by refusing to comply with the segregated seating policy on a Montgomery, Alabama, bus, a fifteen-year-old Montgomery girl named Claudette Colvin was arrested for the same _____ to some historians, Colvin's arrest led to Parks's action and eventually to the desegregation of Montgomery's bus system.

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

- A. offense. According
- B. offense, according
- C. offense according
- D. offense and according

In 2017, artists Isabel and Ruben Toledo redesigned the costumes and sets for The Miami City Ballet's production of *The _____* to reviewers, the Toledos' designs helped infuse the production with elements of Miami's Latin American culture.

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

- A. *Nutcracker* according,
- B. *Nutcracker*, according
- C. *Nutcracker* according
- D. *Nutcracker*. According

It is generally true that technological change is a linear process, in which once-useful technologies are replaced by new and better _____. The reawakening of interest in the steam engine (from advocates of carbon-neutral rail travel) reminds us that ostensibly obsolete technologies may be brought back into service to address society's changing needs.

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

- A. ones, even so;
- B. ones even so,
- C. ones; even so,
- D. ones, even so,

Humans were long thought to have begun occupying the Peruvian settlement of Machu Picchu between 1440 and 1450 CE. However, a team led by anthropologist Dr. Richard Burger used accelerator mass spectrometry to uncover evidence that it was occupied _____ 1420 CE, according to Burger, humans were likely inhabiting the area.

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

- A. earlier. In
- B. earlier, in
- C. earlier, which in
- D. earlier in

Materials scientist Marie-Agathe Charpagne and her colleagues believed they could improve on the multicomponent alloy NiCoCr, an equal-proportions mixture of nickel (Ni), cobalt (Co), and chromium (Cr), by replacing chromium with ruthenium ____ the alloy that resulted, NiCoRu, turned out to be an unsuitable replacement for NiCoCr.

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

- A. (Ru)
- B. (Ru) but
- C. (Ru),
- D. (Ru), but

According to Naomi Nakayama of the University of Edinburgh, the reason seeds from a dying dandelion appear to float in the air while _____ is that their porous plumes enhance drag, allowing the seeds to stay airborne long enough for the wind to disperse them throughout the surrounding area.

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

- A. falling,
- B. falling:
- C. falling;
- D. falling

In 1727, dramatist Lewis Theobald presented a new play, *Double Falsehood*, at a London theater. Theobald claimed that his drama was based on a little-known play by William Shakespeare, *Cardenio*. Many, including poet Alexander Pope, were _____ historians have determined that Shakespeare's company did perform a play called *Cardenio* in 1613.

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

- A. skeptical but
- B. skeptical, but
- C. skeptical,
- D. skeptical

Luci Tapahonso is the inaugural poet laureate of the Navajo Nation. Her book *Sáanii Dahataal/The Women Are Singing*—a combination of fiction and memoir, poetry and _____ serves as a testament to her versatility as a writer.

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

- A. prose;
- B. prose
- C. prose,
- D. prose—

Swedish scientists Eva Engvall and Peter Perlmann developed a method for measuring the concentration of different proteins in a biological sample. Their _____ ELISA (enzyme-linked immunosorbent assay), is used to detect and measure proteins that indicate the presence of certain diseases.

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

- A. method (called
- B. method—called
- C. method, called
- D. method called

How do scientists determine what foods were eaten by extinct hominins such as Neanderthals? In the past, researchers were limited to studying the marks found on the fossilized teeth of skeletons, but in 2017 a team led by Laura Weyrich of the Australian Centre for Ancient DNA tried something _____ the DNA found in Neanderthals' fossilized dental plaque.

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

- A. new: sequencing
- B. new; sequencing
- C. new, sequencing:
- D. new. Sequencing

The Lion Light system, developed by Kenyan inventor Richard Turere, consists of LED lights installed around the perimeter of livestock pastures. Powered with _____ the blinking LEDs keep lions away at night, thus protecting the livestock without risking harm to the endangered lions.

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

- A. energy collected, by solar panels, during the day
- B. energy collected by solar panels during the day
- C. energy collected by solar panels during the day,
- D. energy, collected by solar panels during the day,

The 2022 Nobel Prize in Chemistry was awarded to three pioneers in the field of click chemistry: two-time Nobel laureate Barry Sharpless, who coined the term “click chemistry” in 1998; Carolyn Bertozzi, founder of the Bertozzi Group at _____ and Morten Meldal, a professor at the University of Copenhagen in Denmark.

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

- A. Stanford
- B. Stanford,
- C. Stanford:
- D. Stanford;

In ancient Greece, an Epicurean was a follower of Epicurus, a philosopher whose beliefs revolved around the pursuit of pleasure. Epicurus defined pleasure as “the absence of pain in the body and of trouble in the _____ that all life’s virtues derived from this absence.

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

- A. soul,” positing
- B. soul”: positing
- C. soul”; positing
- D. soul.” Positing