

1. This author described his aunt's homosexual relationship as "no less sacred to them than the tie of marriage." This author is known for translating Homer's works to English. This author was inspired by a (*) bird he saw on the way to work to write the poem "To A Waterfowl," and one of his poems describes an oak that will "send his roots abroad / and pierce thy mould." For ten points, name this American poet of Thanatopsis.
William Cullen **Bryant**

This conflict arose due to the British sending 10,000 troops into one of their colonies. For ten points each:

[10] Name this conflict, a war between British colonials and the namesake ethnic group in South Africa, which led to questions of the British Empire's morality.

Second Boer War [prompt on **Boer** War, do not accept or prompt on "First Boer War"]

[10] The Second Boer War ended with this treaty, which incorporated the Boer republics into the British Empire. This treaty allowed the Boer republics to run themselves as a colony of the British.

Treaty of **Vereeniging**

[10] The Treaty of Vereeniging was signed in this city, the capital of the Transvaal. This city is the administrative capital of South Africa.

Pretoria

2. After the death of this empire's most prolific leader, the general Askia Muhummad challenged that leader's son, Sunni Baru, for the throne, eventually defeating him at the battle of Anfao. That previous leader took control of important cities such as Djenne and (*) Timbuktu, and was named Sunni Ali. This empire, whose capital was established at Gao, was defeated by Saadi Moroccans at the Battle of Tondibi. For ten points, name this empire, the successor of Mali in West Africa.

Songhai empire

This Dutch scientist won the Nobel Prize in Chemistry in 1901 for his work in chemical dynamics. For ten points each:

[10] Name this chemist, whose namesake "factor" is the ratio between the concentration of particles and the concentration of a substance as calculated from its mass.

Jacobus Henricus **van't Hoff**

[10] The van't Hoff equation relates the change in this quantity to the change in the equilibrium constant. This quantity is a measure of the average energy of motion of particles in a substance.

Temperature (do not accept or prompt on heat)

[10] van't Hoff also predicted the structure of allenes in addition to this property present in them. This property, absent in meso compounds, is the nonexistence of an axis of symmetry in a molecule.

Chirality

3. This substance is a tetramer of four polypeptide chains with an iron center in its heme group. Deficiency in this substance can result in disorders such as vitiligo. This enzyme has been dubbed "catalytically (*) perfect" due to its incredibly high turnover number. This

enzyme is found in virtually every aerobic organism, and its namesake "test" causes a certain compound to bubble. For ten points, name this enzyme, used to separate oxygen from hydrogen peroxide.

Catalase

This work was commissioned by Henry III of Nassau, and is currently in the Museo Nacional del Prado. For ten points each:

[10] Name this triptych which depicts two nude figures in its left panel around a divine figure in pink robes along with a huge surrealist party scene in the middle.

The Garden of Earthly Delights

[10] This Dutch artist painted The Garden of Earthly Delights, and is known for other works such as The Last Judgment and Death and the Miser.

Hieronymous **Bosch**

[10] This other triptych by Bosch depicts a hellish landscape with a destroyed tower in the center. A painting by Salvadore Dali with this title depicts horses with very long, thin legs along with a nude man holding a cross in the bottom left.

The Temptation of St. Anthony

4. The Jirecek line divided what is now this region into areas of Greek and Latin influence. This region was largely controlled by the Byzantine Empire by the end of the sixteenth century, and the first war of this region led to the independence of (*) Albania. Greece, Romania, Turkey, and Yugoslavia signed a pact named for this region between World Wars I and II. For ten points, name this Southeastern European region, which includes Bosnia and Serbia.

the **Balkans** (accept **Balkan peninsula**, accept **Rumelia**)

A ferryman in this novel predicts that the protagonist will come back to compensate him in some way. For ten points each:

[10] Name this novel, in which the titular protagonist becomes homeless and meditates endlessly in pursuit of nirvana.

Siddhartha

[10] This lover of Siddhartha insists he must become wealthy so that she can teach him the art of love.

Kamala

[10] This German author of Steppenwolf and The Glass Bead Game wrote Siddhartha. Hermann **Hesse**

5. In this suite's fifth section, the piano plays a waltz-like triplet figure while the bass plays the melody beneath it, which is a musical joke and a reference to Mendelssohn's A Midsummer Night's Dream. The composer of this work prohibited its public performance, fearing its (*) frivolity would ruin his public image. In this suite, high ostinatos suggest the roar of a lion. For ten points, name this suite whose sections include "The Swan," a work of Camille Saint-Saens.

Carnival of the Animals

Myths from this country include the creation of the world by Pangu from chaos. For ten points each:

[10] Name this country, whose mythological figures include the Jade Emperor.

China

[10] Another myth from China includes this archer who shot down nine suns to save the Earth from scorching heat.

Hou Yi

[10] As a reward for shooting down nine suns and saving the Earth, Xiwangmu gave Hou Yi an elixir of this ability. In Greek mythology, Apollo gave Bolina this ability after she attempted to escape him.

immortality (accept descriptive answers such as **being immortal** or **living forever**)

6. This country's city of Leuven was destroyed during the Rape of [this country], a series of war crimes perpetrated upon its people during a conflict in which its neutrality was violated. The Allies' use of a port in this country prompted the (*) Nazis to launch the Ardennes offensive, and the European Union is headquartered in this country. For ten points, name this country, whose first king Leopold I was crowned in Brussels.

Belgium

This event is found by finding the strategy of every player and all players declining to change theirs. For ten points each:

[10] Name this event, which occurs when every player of a game knows every other player's strategy, but their best response is their own strategy.

Nash equilibrium

[10] The Nash equilibrium is an event discussed in this field, which deals with mathematical models of strategic interactions. Another important event in this field is the prisoner's dilemma.

Game theory

[10] This game theorist gave the prisoner's dilemma its name. This man names an award for outstanding work in discrete mathematics.

Alvin **Tucker**

7. This author's collection "Black Beetles in Amber" includes poems such as "The Obituarian." S.T. Joshi has said that this author is among the ranks of satirists such as Juvenal, Johnathan Swift, and Voltaire. This author of a satirical (*) dictionary which assigned humorous definitions to common words disappeared on a supposed trip to get a firsthand view of the Mexican-American War. For ten points, name this author whose works include The Devil's Dictionary and Tales of Soldiers and Civilians.

Ambrose **Bierce**

The original Spanish settlement of this city is currently known as Portsmouth Square. For ten points each:

[10] Name this city in California, whose Golden Gate Bridge is one of the United States' most famous landmarks.

San Francisco

[10] People of this ethnicity commonly reside in this neighborhood centered on Grant Avenue and Stockton Street, their namesake "town."

Chinese-Americans (prompt on Asian-American)

[10] This San Francisco landmark was built by Americans to protect the San Francisco Bay from foreign ships during the Civil War, and sits at the southern side of the Golden Gate Bridge.

Fort Point (accept **Castillo de San Joaquin**, accept **Castle of Saint Joachim**)

8. A sculpture by this artist sold for \$37.2 million dollars and was inspired by Leonie Rica. This artist's sculpture of one relative of Napoleon Bonaparte evoked controversy due to its resemblance of a (*) penis. Another work by this artist, which looks like a feather cast in bronze, was the subject of a court battle surrounding its taxation, because the United States refused to call it art. For ten points, name this Romanian sculptor of Bird in Space.
Constantin **Brancusi**

This member of the twenty-seven club died after recording his hit Purple Haze. For ten points each:

[10] Name this iconic guitarist, whose most famous songs include Voodoo Child and Hey Joe.
Jimi **Hendrix**

[10] Jimi Hendrix played a heavily distorted version of this song at Woodstock. When Fillmore played Hendrix's rendition of this song in the movie Cars, Sarge shouted "Turn that disrespectful junk off!"

the **Star-Spangled Banner** (prompt on The American National Anthem or equivalent)

[10] This bassist for The Jimi Hendrix Experience said that Hendrix was a philosopher who preached about ego.

Billy **Cox**

9. While conversing with Wolfgang Pauli and Werner Heisenberg, this scientist remarked that "the very idea of God is a product of the human imagination." This scientist shared the 1933 Nobel Prize in Physics and anticipated (*) string theory well before its inception.

This scientist, whose namesake equation describes the behavior of fermions, names a type of statistics with Enrico Fermi. For ten points, name this scientist who predicted the existence of antimatter.

Paul **Dirac**

This figure is depicted in red and blue robes in a mural by Leonardo da Vinci. For ten points each:

[10] Name this figure who appears hanging on a cross in a painting by Peter Paul Rubens.

Jesus Christ (accept either, do not accept or prompt on God)

[10] A painting of the crucifixion of Jesus Christ by this painter of Las Meninas features a golden plate with Hebrew words on it positioned just above Christ's head.

Diego **Velazquez**

[10] A painting by this Dutch artist depicts Christ's disciples struggling on a boat in a turbulent sea, his The Storm on the Sea of Galilee.

Rembrandt van Rijn (accept either)

10. This man's brother was brought back to his birthplace, Alba Longa, before the two competed in a contest of augury to determine where to build a certain city. This man, who some believe to be a descendant of (*) Aeneas, was saved along with his brother by the god of the Tiber River. This man saw 12 birds and thought they were a sign to build a city on the Palatine Hill instead of the Aventine. For ten points, name this brother of Remus, the mythical founder of Rome.

Romulus

This novel begins with the line "I am a sick man, a wicked man." For ten points each:

[10] Name this novel by Fyodor Dostoevsky, whose second part is titled "Apropos of the Wet Snow."

Notes from Underground

[10] Notes from Underground frequently references this other Russian author, who named a story after a main street in St. Petersburg, the Nevsky Prospect.

Nikolai **Gogol**

[10] Fyodor Dostoevsky claimed that all Russian authors came out of this one of Gogol's garments, which titles a short story about Akaky Akakevich.

overcoat (accept The **Overcoat**)

11. While with the National Security Council, this man was endorsed by Donald Trump as "one of his top Ukraine policy specialists." After the firing of Mark Esper, this man assumed the position of Chief of Staff to the Secretary of Defense, and (*) William Barr said that this man would assume his current position "only over my dead body." For ten points, name this man who has advanced conspiracy theories on Stew Peters' podcast, the current FBI director.

Kash **Patel**

This politician was the prosecutor for the Scopes trial and was known as the Great Commoner. For ten points each:

[10] Name this 3-time Democratic presidential nominee and Secretary of State under Woodrow Wilson.

William Jennings **Bryan**

[10] Bryan gave this speech promoting the expanded minting of silver coins, stating "you shall not press upon the brow of labor this crown of thorns!"

Cross of Gold speech

[10] William Jennings Bryan was from this state, the only one with a unicameral legislature. Ernie Chambers is the longest-serving senator in this state's history.

Nebraska

12. This philosopher remarked that the Jews' "fundamental principles of their religion discourage manliness" in a work which details his doubt that Moses wrote the Torah. Those works caused the Jewish community of (*) Amsterdam to issue a cherem against

him. This man's Ethics includes a section about emotional bondage in humanity. For ten points, name this Dutch philosopher and advocate of pantheism, the author of the Tractatus Theologico-Philosophicus.

Baruch Spinoza (accept Benedictus Spinoza)

This property of quarks and gluons was first implicitly proposed by Oscar Greenberg. For ten points each:

[10] Name this property, which describes the internal degree of freedom of the three-triplet model. This property has values named red, green, and blue.

color charge (do not accept or prompt on color)

[10] Color charge is a property central to this field which describes the interactions of quarks and gluons within hadrons.

quantum chromodynamics (accept QCD)

[10] The combination of one color and its anticolor is represented by this number value, also called "white" or "colorless."

zero

13. A document advocated for by a certain minister of the maison du roi repealed this document, and this document is often compared to a similar one in Spain, the Alhambra Decree. This document, issued by the (*) longest-reigning monarch in verified history, prompted Frederick Wilhelm to issue the Edict of Potsdam, allowing people of a certain Christian sect to take refuge in Germany. For ten points, name this document issued by Louis XIV, which expelled Huguenots from France.

Edict of Fontainebleau

This mountain, whose Cherokee name is Attakulla, is the highest peak in the American East. For ten points each:

[10] Name this mountain. This mountain was the highest peak in the United States until 1803 when the Louisiana Purchase claimed Mount Elbert.

Mount Mitchell

[10] Mount Mitchell is in this East Coast state. This state's Kill Devil Hills were the site of the Wright brothers' first flight.

North Carolina (do not accept or prompt on Carolina)

[10] Mount Mitchell is the highest peak in this Eastern mountain range, whose Blue Ridge subrange is named for its isoprene-induced blue haze.

Appalachian mountains

14. This tissue is composed of the tunica intima and the fenestrated type of this tissue has continuous basal laminae. Another type of this tissue, contrasted with its sinusoidal type, has two subtypes, one of which possesses few (*) vesicles and is found primarily in the central nervous system. This tissue is used to diffuse various substances such as urea and glucose. For ten points, name this tissue surrounding the alveoli, the primary surface for gas exchange.

capillaries

This sports franchise has never lost a finals series in its history, but all 6 of its championship runs were led by one player. For ten points each:

[10] Name this NBA franchise, located in Illinois, who had a historic run in the 1990s after drafting Michael Jordan.

Chicago Bulls (accept either)

[10] This University of Central Arkansas basketball legend was traded by the SuperSonics to the Bulls when he was drafted, and was known as Jordan's "Robin."

Scottie **Pippen**

[10] Scottie Pippen and Michael Jordan won their championships under this legendary "Zen Master," an eleven-time NBA champion coach who also coached Kobe Bryant and Shaquille O'Neal.

Phil **Jackson**

15. Description acceptable. During this speech, a crowd begs the orator to read a certain document written by a dead man, to which the orator responds that "he will wrong the honorable men" who committed a certain crime by reading it. This speech (*) sarcastically praises the murderers of a certain Roman emperor. For ten points, name this speech from Shakespeare's Julius Caesar, where a later Roman emperor causes a riot against Caesar's murderers.

Mark Antony's funeral oration (accept any answer involving **Mark Antony**, a **funeral**, and a **speech** or **oration**, prompt on Mark Antony's speech)

This poet's 96th work is a condolence to his friend for the loss of a loved one, while his 101st laments the death of his brother. For ten points each:

[10] Name this Roman poet, who wrote of his attraction to a boy named Juventius.

Gaius Valerius **Catullus**

[10] Catullus wrote various poems to this married girlfriend of his, one of three daughters of Pulcher.

Lesbia (accept **Clodia**)

[10] Catullus' 49th poem is an invective toward this Roman orator, who was named a righteous pagan by the early church and hated Clodius.

Marcus Tullius **Cicero**

16. Description acceptable. This event was stopped by a company of U.S. Marines led by Israel Greene. Hugh Forbes was an accessory to this event. This event's perpetrator rented a house under the pseudonym "Isaac Smith," and instruments used in this event were later carried as (*) souvenirs by people such as Harriet Tubman. This event has been called the dress rehearsal for the Civil War. For ten points, name this event, in which an abolitionist attempted to incite a slave revolt at Harpers Ferry.

John Brown's Harpers Ferry Raid (accept any answer including **John Brown** and **Raid**, prompt on "Harpers Ferry raid" before Harpers Ferry is read with "Who led the raid?")

This sacrament has been referred to as the second sacrament of commitment. For ten points each:

[10] Name this Catholic sacrament, which ordains ministers in the Catholic tradition.

holy orders

[10] Ordination into the episcopate leads to the assumption of this position. The arch- [this position] of Canterbury is the leader of the Catholic Church.

bishops

[10] This most recent Archbishop of Canterbury resigned after failure to investigate allegations of abuse leveled against barrister John Smyth.

Justin **Welby**

17. These things are only supported against gravitational collapse by electron degeneracy pressure. An oxygen-neon-magnesium one of these can occur when its progenitor is between 7 and 9 solar masses. These stars are formed by masses of (*) carbon and oxygen at the center of a red giant. These stars' maximum masses are governed by the Chandrashekhar limit. For ten points, name this very dense class of star, the nearest one of which to Earth is Sirius B.

white dwarfs

This fourth-longest river in Africa joins with the Kabompo River in Zambia. For ten points each:

[10] Name this African river that flows through cities such as Livingstone.

Zambezi River

[10] The Zambezi River flows into this large waterfall on the border between Zimbabwe and Zambia. David Livingstone identified this waterfall in 1855.

Victoria Falls

[10] The Zambezi River discharges into this ocean. This ocean's marginal seas include the Arabian Sea and the Bay of Bengal.

Indian Ocean

18. A book named for this prophet contains unique information on the nature of demons. This prophet, the seventh of the Pre-Deluge Patriarchs, is said to have been "translated by faith so that he might not see (*) death." In Mormonism, this man is said to have founded a righteous city called Zion, and he is equated with the Greek god Hermes in Theosophy. For ten points, name this Biblical figure, who "walked with God and was no more" after living for 365 years.

Enoch

This chemist disputed the existence of phlogiston and named the element oxygen. For ten points each:

[10] Name this father of modern chemistry who predicted the existence of silicon.

Antoine **Lavoisier**

[10] Lavoisier discovered this law, which states that, no matter what changes to form or shape occur, mass cannot be created or destroyed.

law of **conservation of mass** (prompt on conservation alone)

[10] Lavoisier discovered a method of pouring this compound on tobacco to make sure ash had not been mixed in with it. This compound was referred to as oil of vitriol in antiquity.

Sulfuric acid (prompt on battery acid)

19. The Oglala Lakota tribe co-manages the South Unit of this place. This place administers the Minuteman Missile National Historic Site nearby, and the United States seized this place in 1889, though it was ceded to the (*) Oglala Sioux by the Second Treaty of Fort Laramie. This national park, known for its buttes and the Red Shirt Table, houses the largest undisturbed mixed grass prairie in the US. For ten points, name this national park in South Dakota.

Badlands National Park

This saltwater lake is bounded by Kazakhstan, Russia, Azerbaijan, Iran, and Turkmenistan. For ten points each:

[10] Name this saltwater lake in Asia, the largest inland body of water in the world.

Caspian Sea

[10] The area covered by the Caspian Sea is approximately that of this island nation in eastern Asia, with islands such as Hokkaido and Honshu.

Japan (accept **Nippon**)

[10] The Caspian Sea is a significant provider of this resource, which is refined for use through fractional distillation.

crude oil (accept **petroleum**, prompt on oil)

20. This author's colleague, the author of "Lone Wild Goose", wrote a poem called "Dreaming of [this poet]," and one poem by this author opens with the line "Ah! How dangerous, how high!" That work is titled "The Hard Road to Shu," and some of his other works are in the collection "Three Hundred (*) Tang Poems." The most famous work by this author of "Bring in the Wine" details the speaker observing the moon. For ten points, name this friend of Du Fu, the Chinese poet of Quiet Night Thoughts.

Li Bai (accept **Li Po**)

This author drew on his experience as a British police officer to write the novel *Burmese Days*. For ten points each:

[10] Name this British dystopian author of works such as *Animal Farm*.

George **Orwell** (accept Eric Arthur **Blair**)

[10] Orwell also wrote this novel, in which Winston Smith is tortured with rats and the slogan "Big Brother is Watching You" is repeated.

1984

[10] In 1984, while Winston is being tortured with rats, he asks his tormentors to "Do it to" this person. This person gives Winston a note that reads "I love you."

Julia

