



**Written By:**

Ardy Li, Artur Meller, Ben Gutscher, David Jones, David Kramer, Emily Ash, Frank EnYart, Jarret Greene, Jasper Lee, Joe Czupryn, Marty Mendenhall, Max Witeof, Michael Czupryn, Mike Sedlack, Neal Dev, Rohan Archer, Ryan Rugani, Soham Agarwal, Sohan Vartak, and Steven Wellstead

**Edited By:**

Joe Czupryn with assistance from Bob Kilner, Brandon Williams, David Jones, Greg Bossick, Jasper Lee, Michael Czupryn, and Paul Nelson

## **2013 Fall Kickoff Tournament - Round 1**

1. The first disease to be associated with this organelle was Leber's hereditary optic neuropathy, and the TIM and TOM complexes are inner and outer transport mechanisms in it. The Eve Theory is about the matrilineal descent of these organelles that are also affected by Leigh's disease and Kearns-Sayre syndrome. Cytochrome C is released from this organelle to signal apoptosis, and it is the site of oxidative phosphorylation. Cristae are the inner foldings of this site of the electron transport chain and Krebs Cycle. For 10 points, identify this organelle that produces ATP and is sometimes referred to as the "powerhouse of the cell."

ANSWER: **Mitochondria** [or **Mitochondrion**]

BONUS: This novel is divided into four distinct sections, the last of which focuses on Dilsey, the servant of the central family. For 10 points each:

[10] Identify this novel, the first section of which is narrated by the mentally handicapped Benjy Compson.

ANSWER: *The **Sound and the Fury***

[10] *The Sound and the Fury* was written by what American author of *Absalom, Absalom!* and *As I Lay Dying*?

ANSWER: William **Faulkner**

[10] This is the central family in *As I Lay Dying*. In that novel, the family journeys to Jefferson, Mississippi to bury the matriarch of this family, Addie.

ANSWER: **Bundren**

2. At the end of this play, one character attempts to kill himself by drinking poisoned wine, but is stopped by the title character, who states that he must live to tell the story. Another character in this play is called a "wretched, rash, intruding fool" after being mistakenly killed while hiding behind a tapestry. That character, Polonius, is the father of the title character's love interest, Ophelia. The title character of this play is attempting to avenge the death of his father at the hands of Claudius, who had later married his mother Gertrude. For 10 points, identify this Shakespeare play about the title Prince of Denmark that contains the famous "to be or not to be" soliloquy.

ANSWER: **Hamlet**

BONUS: The Presidential retreat Camp David was named in honor of this man's father and grandson. For 10 points each:

[10] Identify this first Supreme Commander of NATO who was elected President in 1952.

ANSWER: Dwight D. **Eisenhower**

[10] Citing the need for quick evacuations in the wake of the Cold War, Eisenhower signed a 1956 Act creating what transportation system?

ANSWER: **Interstate** Highway System [prompt on "Highway"]

[10] In both the 1952 and 1956 Presidential elections, Eisenhower defeated this man to win the election. This former Illinois Governor was the grandson of a former US Vice President under Grover Cleveland.

ANSWER: Adlai **Stevenson**

3. Richard Lawrence attempted to assassinate this President, but his gun misfired twice, and this President ended up beating Lawrence with his cane. He appointed Roger Taney to the Supreme Court and his tenure in office saw the Nullification Crisis and the Indian Removal Act. He lost the election of 1824 due to a “corrupt bargain” but came back to win election in 1828. As a general, this man ordered the destruction of the Negro Fort during the First Seminole War, and earned the nickname “Old Hickory” while leading victorious forces at the Battle of New Orleans. For 10 points, identify this general who later served as the Seventh President of the United States.

ANSWER: Andrew **Jackson**

BONUS: Identify these parts of a flower for 10 points each:

[10] Consisting of the filament and the anther, this is the pollen producing reproductive part of the flower.

ANSWER: **Stamen**

[10] This female counterpart of the stamen consists of the ovary, the style, and the stigma.

ANSWER: **Pistil** [or **Gynoecium**]

[10] Collectively known as the calyx, these parts of the flower are usually green. They protect the flower when in bud and offer support for the petals when in bloom.

ANSWER: **Sepals**

4. In one faith, this ritual is known as Qurbana. The Anaphora is sometimes recited as part of this ritual, which occasionally makes use of mustum in many Protestant faiths. The “open” form of this Christian practice is available to those of different denominations. Catholic priests utter “do this in memory of me” prior to this ritual, which they believe involves transubstantiation. For 10 points, name this Christian sacrament that makes use of bread and wine to represent the body and blood of Jesus.

ANSWER: Holy **Eucharist** [also accept Holy **Communion** or the **Lord’s Supper** or **Blessed Sacrament**]

BONUS: Identify these Indianapolis Colts quarterbacks for ten points each.

[10] The top overall pick in the 2012 draft, this Colts quarterback set the NFL record for passing yards by a rookie and led his team to the playoffs in his first season.

ANSWER: Andrew **Luck**

[10] Luck was drafted to replace this man, who after spending thirteen years as Colts quarterback, signed as a free agent with the Denver Broncos in March 2012.

ANSWER: **Peyton Manning** [prompt on “Manning”]

[10] Perhaps the most successful Colts quarterback was this man, who played for the team from 1956 to 1972 and won three league MVP awards during that period.

ANSWER: Johnny **Unitas**

5. This architect utilized a facade sloping thirty-four degrees in his design of Dallas City Hall. His work in Asia included a hotel at Fragrant Hills and the Bank of China Tower. While his design for the John F. Kennedy Library earned him acclaim, falling glass panels led to his firm being sued after his design of the John Hancock Tower in Boston could not endure strong winds. He won his most famous commission for a project proposed by Francois Mitterrand. For 10 points, identify this Pritzker Prize winning architect known for designing the glass pyramid at the Louvre and Cleveland's Rock and Roll Hall of Fame.

ANSWER: I.M. **Pei**

BONUS: The forward to this work was written by its author's mentor Franz Boas. For 10 points each:

[10] Identify this anthropological work that studied children living on the island of Ta'u in the South Pacific.

ANSWER: **Coming of Age in Samoa**

[10] *Coming of Age in Samoa* is a book by what author of *Sex and Temperament in Three Primitive Societies*?

ANSWER: Margaret **Mead**

[10] Mead's findings were challenged after her death by what New Zealand anthropologist who wrote *The Fateful Hoaxing of Margaret Mead*.

ANSWER: Derek **Freeman**

6. This organ affected by Liddle's syndrome and Denys-Drash syndrome can develop Wilm's tumors. People with Alport syndrome lose function of this organ that is home to Malpighian pyramid cells, the efferent artery, the afferent vein, and the distal convoluted tubule. Bowman's capsule surrounds the glomerulus in this organ that sees fluids flow through the loop of Henle. The ureters leave this organ, and the filtering of blood by nephrons in it can be assisted by dialysis. For 10 points, identify these paired organs that clean out the blood.

ANSWER: **Kidneys**

BONUS: Identify these works by John Keats for ten points each.

[10] What poem, written about the singing of the title creature, contains the phrase "tender is the night" and ends with the line "Fled is that music- do I wake or sleep?"

ANSWER: "**Ode to a Nightingale**"

[10] Keats ended this other poem with the line "Beauty is truth, truth beauty."

ANSWER: "**Ode on a Grecian Urn**" [do not accept "Ode to a Grecian Urn"]

[10] This Keats sonnet that begins "Much have I travell'd in the realms of gold" was written after reading a translation of the *Odyssey*.

ANSWER: "**On First Looking Into Chapman's Homer**"

7. One participant in this event sent a letter to Father Garnet asking for help in raising an army but his pleas were rejected. This event was uncovered when a letter sent by Francis Tresham to Baron Monteagle was delivered to Robert Cecil. Several perpetrators of this event died or were captured at Holbeche House, where they fled after raiding Warwick Castle. This event was orchestrated by a man angered at the lack of rights given to Catholics by James I, Robert Catesby. For 10 points, identify this 1605 plot to assassinate the king by blowing up the British Parliament that led to the conviction of Guy Fawkes.

ANSWER: **Gunpowder** Plot

BONUS: A combination of this element with carbon and chlorine was known as freon. For 10 points each:

[10] Identify this element that when bound to carbon can be used to make Teflon.

ANSWER: **Fluorine** [do not accept “fluoride”]

[10] Fluorine has the highest value for this quantity, the ability of an atom to attract electrons.

ANSWER: **Electronegativity**

[10] This American chemist names the most often used scale for electronegativity, ranging from zero point seven to four. He also recommended megadoses of vitamin C.

ANSWER: Linus **Pauling**

8. One character in this novel is referred to as the “Scottish Half Breed” and is responsible for delivering mail. Other characters in this novel include Hal, Mercedes and Charles, who die while trying to cross ice weakened by the arriving spring. Another character is killed by Yeehat Indians while camping. That man, John Thornton, had earlier saved the central figure in this novel, a St. Bernard-collie mix who had been kidnapped from the California home of Judge Miller. For 10 points, identify this novel about the sled-dog Buck that was written by Jack London.

ANSWER: *The* **Call of the Wild**

BONUS: One of these teachings focuses on the origin of *dukkha*. For 10 points each:

[10] Name this collection of teachings, the last of which notes that *dukkha* can be terminated by following the Eightfold Path.

ANSWER: **Four Noble Truths** [also accept **catvari aryasatvani**; prompt on “Noble Truth(s)”]

[10] The Four Noble Truths are a central tenet of this religion whose two main branches are Mahayana and Theravada.

ANSWER: **Buddhism**

[10] Buddhism shares many similarities to this other Indian religion whose practitioners revere twenty-four tirthankaras, the last of which was Mahavira.

ANSWER: **Jainism**

9. One river of this name rises from the confluence of the Bois de Sioux River and the Otter Tail Rivers in North Dakota before emptying into Lake Winnipeg, while another river with this name rises in Southern China before emptying into the Gulf of Tonkin. Prior to the Treaty of Guadalupe-Hidalgo, another river of this name served as the border between the US and Mexico, as stipulated by the Adams-Onís Treaty. For 10 points, identify this common name shared by a tributary of the Mississippi River that separates Texas and Oklahoma.

ANSWER: **Red** River

BONUS: This war had the highest ratio of casualties to the number of participants. For 10 points each:

[10] Name this South American war in which Argentina and Uruguay were allied with another country against a country led by Francisco Solano López.

ANSWER: War of the **Triple Alliance**

[10] López led this country in the war. It suffered the most out of the countries in the war, being totally defeated conventionally before fighting a long drawn out guerilla war in which sixty percent of the population died.

ANSWER: **Paraguay**

[10] This country was the third member of the alliance. It passed the Golden Law soon after the war ended, which abolished slavery, though it had to deal with a serious debt crisis.

ANSWER: **Brazil**

10. One character on this show once claimed he was going to “cash in his bar mitzvah bonds” to have money to spend on Kristy, a girl who was using him. That character on this show was nicknamed “Fruit Loops” instead of his desired “Rocket Man” by fellow astronauts during a trip to the International Space Station. Another character on this show has to put on his “bus pants” whenever his roommate refuses to drive him to work. That character on this show finally admitted that Amy Farrah-Fowler was his girlfriend instead of a girl who is his friend. For 10 points, identify this CBS comedy about Raj, Howard, Leonard, and Sheldon, a group of Caltech scientists.

ANSWER: *The* **Big Bang Theory**

BONUS: Prince Gvidon is transformed into the title insect in this composer’s “Flight of the Bumblebee.” For 10 points each:

[10] Identify this composer who included that piece in his *Tale of Tsar Sultan* in addition to writing *Scherezade*.

ANSWER: Nikolai **Rimsky-Korsakov**

[10] Rimsky-Korsakov was a composer from this country. Another composer from this country included in its Mighty Handful was Modest Mussorgsky.

ANSWER: **Russia**

[10] This other member of the Mighty Handful wrote the opera *Prince Igor* in addition to *In the Steppes of Central Asia*.

ANSWER: Alexander **Borodin**

**HALFTIME – Announce the score and allow teams to substitute**

11. This god's soul, known as his Ba, was worshipped at the city of Mendes where he was known as Banebdjedet (BANE-ba-jed-ET). The Queen of Ethiopia conspired with Set to kill this god, who was locked in a box sealed with lead and dropped into the Nile River. After being saved by his wife, this god impregnated her, and she later gave birth to the god Horus. Set later chopped this god into fourteen pieces and scattered them throughout the country. Often depicted with green skin and a long beard, this god is the eldest son of Geb and Nut. For 10 points, identify this husband of Isis, the Egyptian god of the dead.

ANSWER: Osiris

BONUS: Identify these former Soviet republics, for 10 points each.

[10] Astana is the capital of this former Soviet republic that is the largest landlocked nation in the world.

ANSWER: Kazakhstan

[10] One of only two "doubly-landlocked" countries in the world, this nation has its capital at Tashkent.

ANSWER: Uzbekistan

[10] This nation that controls the Crimean Peninsula was the site of the Chernobyl disaster in 1986.

ANSWER: Ukraine

12. If an alcohol, sodium, and ammonia are present, this compound can undergo the Birch reduction, and this compound can be acylated or alkylated by the Friedel-Crafts reaction. If one of the hydrogens in this compound is replaced by a hydroxide group, it is known as phenol, while if replaced with a methyl group, it is known as toluene. Friedrich Kekule proposed the structure of this smallest cyclic compound to follow the  $4n + 2$  rule named after Huckel. A cyclic structure with alternating single and double bonds, for 10 points, identify this simplest aromatic compound with formula  $C_6H_6$ .

ANSWER: Benzene [accept  $C_6H_6$  before it is read]

BONUS: The central character in this novel believes that his actions are justified because his victim was evil. For 10 points each:

[10] Identify this novel in which Raskolnikov murders Alyona, a pawnbroker, and her sister Lizaveta, who had witnessed the murder.

ANSWER: *Crime and Punishment*

[10] *Crime and Punishment* is a novel by what Russian author of *The Brothers Karamazov*?

ANSWER: Fyodor Dostoyevsky

[10] Prince Myshkin goes insane after the murder of Nastassya Filippovna in what other novel by Dostoyevsky?

ANSWER: *The* Idiot

13. This man bled to death after a feast celebrating his marriage to the Ostrogoth princess Ildico. Earlier, he had asked for half of the Western Roman Empire as a dowry after receiving a marriage proposal from Emperor Valentinian's sister Honoria. He gained power after the death of his uncle Rugila and ruled jointly with his brother Bleda until the latter's death, possibly at his hands. His forces were defeated at the Battle of Catalaunian Plains by Visigoth King Theodoric I. For 10 points, identify this man known as the Scourge of God, who was the leader of the Huns.

ANSWER: **Attila** the Hun

BONUS: Light bends when it enters water. For 10 points each:

[10] Name that phenomenon in which a path of a light beam is altered as it enters a new medium.

ANSWER: **Refraction**

[10] This law of optics relates the angles of incidence for a light beam entering a new medium to the indices of refraction for those two mediums.

ANSWER: **Snell**'s Law or **Descartes**'s Law

[10] This angle is the angle of incidence such that the refracted and reflected rays will be perpendicular; thus, all plane-polarized light will be transmitted through the second surface.

ANSWER: **Brewster**'s Angle

14. This painting is parodied in a work in which Humphrey Bogart, Marilyn Monroe, James Dean and Elvis Presley take the place of this painting's four central figures. That work by Gottfried Helnwein is entitled *Boulevard of Broken Dreams*. A cash register can be seen in an empty storefront across the street from the main action in this painting, which depicts a man in a white hat standing behind a counter while three patrons enjoy their coffee. For 10 points, identify this painting that also features an advertisement for five cent cigars, the most famous work of Edward Hopper.

ANSWER: **Nighthawks**

BONUS: This man died in 2013 of a massive heart attack following treatment in Cuba for cancer. For 10 points each:

[10] Identify this world leader who famously called George W. Bush "the devil" while speaking before the United Nations in 2006.

ANSWER: Hugo **Chavez**

[10] Chavez was the President of what South American nation which he led from its capital of Caracas.

ANSWER: **Venezuela**

[10] Chavez's closest ally in South America was Evo Morales, the President of what other South American nation?

ANSWER: **Bolivia**



15. One form of this law can be written using Lamé coefficients and Kronecker's delta, and its anisotropic form can be expressed using Voigt notation. Cross-sectional area times Young's modulus divided by length is equal to the force constant of this law that was generalized by Cauchy to three dimensions. The tendency to return to an equilibrium position is the reason for the negative sign in this law that shows stress is directly proportional to strain. Typically written as  $F = -kx$ , for 10 points, identify this law used to calculate the restoring force on a spring.

ANSWER: **Hooke's Law**

BONUS: Answer these questions about Norse mythology for 10 points each.

[10] According to Norse myth, Odin will be swallowed whole by Fenrir at what climactic battle?

ANSWER: **Ragnarok**

[10] This father of Fenrir will break free at Ragnarok. He had been tied up with the entrails of his son after causing the death of Baldur.

ANSWER: **Loki**

[10] Odin owned Huginn and Muninn, two of what type of creature that sat on his shoulders and told him everything going on around the world?

ANSWER: **Ravens** [prompt on "birds"]

16. One character in this play starts to tell a joke about a brothel but has to leave the stage to urinate and never completes the joke when he returns. Another character in this play, a slave who previously did not speak, begins a five-page stream of consciousness soliloquy after being patted on the head. At the end of each of the two acts in this play, the Boy arrives and tells the two central characters that the title figure will not be coming this "evening, but surely tomorrow." For 10 points, identify this absurdist play featuring the characters Lucky, Pozzo, Vladimir, and Estragon, the best known work of Samuel Beckett.

ANSWER: **Waiting for Godot**

BONUS: Identify these Florida politicians for 10 points each.

[10] This Florida Senator took a notable drink of water while delivering the Republican response to Barack Obama's 2013 State of the Union address.

ANSWER: Marco **Rubio**

[10] This Florida Democrat is the state's senior Senator. In 1986, he became the second sitting member of Congress to travel in space when he flew aboard the Space Shuttle *Columbia*.

ANSWER: Bill **Nelson**

[10] This man served as Governor of Florida from 1999-2007, becoming the first two-term Republican governor in the state's history. He is the son of a former US President and the brother of another.

ANSWER: **Jeb Bush** [prompt on "Bush"]

17. This thinker formulated the argument that decapitation is the same as castration in his critique of mythology entitled *Medusa's Head*. This thinker posited that one title figure was not Jewish, but rather Egyptian in his *Moses and Monotheism* and discussed the concept of the “death drive” in his *Beyond the Pleasure Principle*. His most famous work divided the human psyche into the id, ego, and superego. For 10 points, identify this Austrian psychoanalyst who formulated the Oedipus complex and wrote *The Interpretation of Dreams*.

ANSWER: Sigmund **Freud**

BONUS: This children's story is often performed by a narrator accompanied by an orchestra. For 10 points each:

[10] Identify this Sergei Prokofiev composition generally used to introduce children to orchestral instruments.

ANSWER: **Peter and the Wolf**

[10] The role of the grandfather in *Peter and the Wolf* is played by what double-reed woodwind instrument?

ANSWER: **Bassoon**

[10] The role of the cat is played by what instrument, notable players of which include Artie Shaw and Benny Goodman?

ANSWER: **Clarinet**

18. This man argued that a revolution required the presence of a vanguard party in his essay *What is to be Done?* and stated that World War I was designed for capitalists to gain land in his *Imperialism, the Highest Stage of Capitalism*. This man called for unifying all of his nation's banks into one single bank in his “April Theses,” which was written during his sealed train ride returning from exile. He was supported by the Red Army of Leon Trotsky. For 10 points, identify this head of the communist party, who led the Bolshevik Revolution in the USSR and was the predecessor of Joseph Stalin.

ANSWER: Vladimir **Lenin**

BONUS: Answer these questions pertaining to minerals for 10 points each.

[10] This allotrope of carbon is the hardest naturally-occurring mineral on Earth. A blue one of these referred to as the Hope one is housed in the Smithsonian Natural History Museum.

ANSWER: **Diamond**

[10] Diamond ranks as a ten on this scale for mineral hardness on which talc is a one.

ANSWER: **Mohs** Hardness Scale

[10] This mineral, which ranks a seven on the Mohs scale, exhibits piezoelectricity and is made up of silicon dioxide.

ANSWER: **Quartz**

19. This composer quoted music from “Springfield Mountain” and “Camptown Races” to accompany speech narratives in his *Lincoln Portrait*. He included the Mexican folk songs “La Jesusita” and “El Palo Verde” in his *El Salon Mexico* and wrote a piece for the Cincinnati Symphony Orchestra entitled *Fanfare for the Common Man*. Ballets by this composer included *Rodeo*, *Billy the Kid* and his best known piece, which was commissioned by choreographer Martha Graham. For 10 points, identify this American composer who included variations of the Shaker hymn “Simple Gifts” in his *Appalachian Spring*.

ANSWER: Aaron Copland

BONUS: This author wrote about George Tesman and Judge Brack in *Hedda Gabler*. For 10 points each:

[10] Identify this Norwegian playwright who wrote *An Enemy of the People*.

ANSWER: Henrik Ibsen

[10] Ibsen’s best-known work is what play in which Krogstad blackmails Nora Helmer, who slams the door while leaving her family at the end?

ANSWER: A Doll’s House

[10] Halvard Solness plummets to his death from the top of his most recent architectural design in what other Ibsen play?

ANSWER: *The* Master Builder

20. In one scene, this character recalls visiting the Museum of Natural History as a child, and compares his life with Eskimo statues that have remained unchanged for years. This character later spends an evening with three tourists from Seattle after checking into the Egmont Hotel. Other experiences of this character include finding his high school teacher Mr. Antolini patting his head while he sleeps and being punched by a pimp named Maurice. For 10 points, identify this former neighbor of Ackley and roommate of Stradlater at Pencey Prep, the protagonist of J.D. Salinger’s *The Catcher in the Rye*.

ANSWER: Holden Caulfield [accept either underlined part]

BONUS: Answer these questions about an artist and his works for 10 points each.

[10] A flower grows from a broken sword in what painting that commemorates the bombing of the title Basque town during the Spanish Civil War.

ANSWER: Guernica

[10] Guernica is a painting by what Spanish artist of *Les Femmes d’Alger* and *The Old Guitarist*?

ANSWER: Pablo Picasso

[10] This painting from Picasso’s Rose Period depicts the central figure wearing a wreath of flowers around his head while holding the title object.

ANSWER: Boy with a Pipe [or Garçon a la pipe]

**END OF MATCH – Announce final score and do not read tiebreaker tossup(s) unless the score is tied**

**Tiebreaker Tossups – If the match is tied, read one tossup at a time until the score changes (correct answer or neg).**

21. In one novel by this author, Tom Brangwen falls in love with the Polish refugee, Lydia, while Ursula struggles with finding herself as she pursues a lesbian relationship with her teacher. In another novel by this author, Clifford and Connie discuss how the strikes are tiring and argue over the reasons some industries strike. A sequel to one of his earlier works, *Woman in Love*, depicts Gudrun in a destructive relationship with Gerald Crich. For 10 points, name this author who wrote *The Rainbow*, *Lady Chatterly's Lover*, and *Sons and Lovers*.

ANSWER: D. H **Lawrence**

22. This painting was stolen in 1994 by two men who left behind a note reading “Thanks for the poor security.” The artist of this painting included it in a series of twenty-two works called the *Frieze of Life*. The background of this painting is said to be inspired by the eruption of Krakatoa. Two dark figures can be seen standing in the left of this painting, whose hairless central figure wears black and holds its hands to its face. For 10 points, name this painting that depicts an open-mouthed figure performing the title action, a work of Edvard Munch.

ANSWER: *The **Scream*** [accept **Skrik**]