THE LONG ISLAND QUIZ BOWL ALLIANCE

Kansas Standard Sample, Junior Varsity

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It is our sincerest hope that you will enjoy what we have written.

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World Language

The next three sentences you hear are the same sentence, but in French, German, and Spanish. Translate it into English.
FRENCH: J'aimais manger le petit-déjeuner pour le dîner, mais maintenant j'aime manger le dîner pour le petit-déjeuner!
GERMAN: Früher mochte ich zum Abendessen gefrühstückt, aber jetzt mag ich zum Frühstück Abendessen.
OR
Früher habe ich gerne zum Abendessen gefrühstückt, aber jetzt esse ich gern zum Frühstück Abendessen.
SPANISH: ¡Me gustaba desayunar para la cena, pero ahora me gusta cenar para el desayuno!
ANSWER: **I used to like to eat/eating breakfast for dinner, but now I like to eat/eating dinner for breakfast!**

Language Arts

This poem describes figures who "threw potato salad at CCNY lectures on Dadaism" and "lost their loveboys to the three old shrews of fate" as "angelheaded hipsters." What poem that opens "I saw the best minds of my generation destroyed by madness" was dedicated to Carl Solomon by Allen Ginsberg?
ANSWER: "**Howl**" [accept "**Howl** for Carl Solomon"] <Literature>

In this play, the call for "more weight" is demanded by Giles Corey. In this play, the slave girl Tituba is discovered dancing while naked in a forest. John Proctor is executed in what play about the Salem Witch Trials that was written by Arthur Miller?
ANSWER: The **Crucible** <Literature>

This character's friend and editor, Richard Sympson, leaves in sections where this character receives the title of "Nardac." Name this character who visits Brobdingnag and Lilliput in a Jonathan Swift novel about his "Travels."
ANSWER: **Gulliver** [or **Lemuel** Gulliver; accept ***Gulliver***'s *Travels* or *Travels into Several Remote Nations of the World. In Four Parts. By Lemuel* ***Gulliver****, First a Surgeon, and then a Captain of Several Ships*] <Literature>

Science and Health

This protein's type IV (four) is affected in Alport syndrome. Fibroblasts synthesize this protein with a triple-helix structure that is the most abundant in the extracellular matrix. What most abundant protein in the body is found in connective tissues like cartilage?
ANSWER: **collagen** <Science>

A three body scatter spike is an indicator of this phenomenon, which graupel is a "soft" form of. Strong updrafts can cause what type of precipitation, which is measured using reference objects like quarters and golf balls?
ANSWER: **hail** [accept **hail**stones] <Science>

"Mass times distance squared" is added to this quantity about the center of mass in the parallel axis theorem. What quantity multiplies angular acceleration to give torque and is the rotational analogue of mass?
ANSWER: **moment of inertia** [or **rotational inertia** or **second moment of mass**; prompt on rotational mass before mention] <Science>

Social Studies

This situation is indicated by a Herfindahl-Hirschman Index of 10,000. Barriers such as high fixed costs may result in the "natural" type of this situation. Antitrust laws often work to break these situations by inducing competition. Name this market structure in which one seller dominates the sale of a good.
ANSWER: **monopoly** [or **monopolies**; accept natural **monopoly**] <Social Science>

A senator from this state nicknamed "Old Bullion," the author of the first Homestead Acts, was Thomas Hart Benton. Slavery in lands north of the 36°30′ parallel from the Louisiana Purchase was banned by a "Compromise" named for what state governed from St. Louis?
ANSWER: **Missouri**

This woman feuded with Robert Peel during the Bedchamber Crisis. Benjamin Disraeli bestowed the title "Empress of India" to what petite 19th century British queen?
ANSWER: Queen **Victoria** [or Empress **Victoria** or Alexandrina **Victoria**] <History>

Mathematics

(20 SEC)
What is the only possible solution for the equation $2x^2 - 12x + 18 = 0$ ("two x squared minus twelve x plus eighteen equals zero")?
ANSWER: x = **3** <Computational Math>

(20 SEC)
In terms of pi, what is the volume of a sphere with a radius of 3 feet?
ANSWER: **36 pi** cubic feet <Computational Math>

(20 SEC)
What is the maximum area of a chicken coop that can be enclosed with 20 feet of fence?
ANSWER: **25** square feet [or **25** feet squared] <Computational Math>

Fine Arts

Note to players: composer and genre required. The *Andante grazioso* first movement of one of these pieces inspired Max Reger's *Variations and Fugue*. A C major one of these pieces nicknamed "facile" was written "for beginners." Name these pieces, the 11th of which ends with a "Rondo alla Turca."
ANSWER: **piano sonata**s by Wolfgang Amadeus **Mozart** <Fine Arts>

A designer from this country was heavily referenced in Kanye West's album *Donda*, where he had a song named after him. Name this country home to Junya Watanabe and Hiroshima born designer Issey Miyake.
ANSWER: **Japan**

Year in Review

After floods in this state, volunteers discovered intact dinosaur footprints near Big Sandy Creek. In which state were 5 Democratic seats targeted through a mid-decade congressional redistricting, with capital Austin?
ANSWER: **Texas**

THE LONG ISLAND QUIZ BOWL ALLIANCE

Kansas JV #2

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World Language

The next three sentences you hear are the same sentence, but in French, German, and Spanish. Translate it into English.
FRENCH: Mangerai-tu ces bananes avant qu'elles se gâtent?
GERMAN: Wirst du diese Bananen essen, bevor sie schlecht werden?
SPANISH: ¿Tú comerás esos plátanos antes de que se echen a perder?
ANSWER: **Will you eat those/these bananas before they go bad?**

Language Arts

This author described the island of Nuku Hiva in his novels *Typee* and *Omoo*. What author declared "Flood-tide below me! I see you face to face!" in his poem "Crossing Brooklyn Ferry?"
ANSWER: Walt **Whitman** <Literature>

This novel ends ambiguously after a character uses his ability to "see beyond" to find a sled on top of a hill. Jonas becomes a Receiver of Memory in a society that practices Sameness in what dystopian novel by Lois Lowry?
ANSWER: *The* ***Giver*** <Literature>

This author used the one-word sentence "Wolves" to end his story about two "Interlopers." What British short story author wrote "romance at short notice was her specialty" to explain Vera's storytelling in "The Open Window?"
ANSWER: **Saki** [or Hector Hugh **Munro**] <Literature>

Science and Health

This organ contains clusters of lymph tissue called Peyer's patches, and it is connected to the pancreas by the sphincter of Oddi. This organ, which contains finger-like villi and microvilli, is separated into the ileum, jejunum, and duodenum. Name this organ that connects the stomach to the large intestine.
ANSWER: **small intestine** [or **small bowel**; prompt on intestines; prompt on gastrointestinal tract or GI tract] <Science>

The fountain effect causes this element's superfluid form to jet upwards. Arthur Eddington predicted that this element was produced in the proton-proton chain in stars. Name this lightest noble gas, with symbol He ("H-E").
ANSWER: **helium** [accept **He** before mentioned] <Science>

White dwarfs are stable because a property named for this physicist causes electron degeneracy pressure. No two fermions can occupy the same state according to what Austrian physicist's "exclusion principle"?
ANSWER: Wolfgang **Pauli** [accept **Pauli** exclusion principle] <Science>

Social Studies

This river, once the site of a major log jam called the Great Raft, begins in Oklahoma and ends in Louisiana where it flows into the Atchafalaya. It also is named after a color.
ANSWER: **Red River**

With the Lenape chief Tamanend, this man signed the Treaty of Shackamaxon. This man was granted a charter by Charles II to create a haven for George Fox's pacifist followers. Name this Quaker who founded an American colony whose modern cities include Philadelphia.
ANSWER: William **Penn** <History>

Schools established during this event led the practice of souperism. Many victims of this event fled aboard coffin ships. Robert Peel repealed the import-restrictive Corn Laws during this event. A "blight" of a namesake crop caused what 1840s period of starvation on a European island?
ANSWER: **Irish Potato** Famine <History>

Mathematics

(20 SEC)
If a factory with 10 workers can produce 20 widgets in 5 hours, how many widgets can 5 workers produce in 20 hours?
ANSWER: **40** widgets <Computational Math>

(20 SEC)
What is the expected value of a game where you have a 25% chance of winning $10, a 50% chance of winning $4, and a 25% chance of losing $5?
ANSWER: $**3.25** <Computational Math>

(20 SEC)
If product A costs 150% more than product B and product B costs 40% less than $50, what is the cost of product A?
ANSWER: $**75** <Computational Math>

Fine Arts

The first two notes beginning of The Simpsons theme have this intervallic relationship, and the third and seventh of a Dominant-7 chord also have this relationship. What interval is between a perfect fourth and a perfect fifth?
ANSWER: **tritone**s [accept **diminished fifth**; accept **augmented fourth**] <Fine Arts>

This man coined the phrase "machine for living" to describe houses and outlined "Five Points" of architecture in his book *Towards a New Architecture*. Name this Swiss-French architect of the Villa Savoye.
ANSWER: Le **Corbusier** [accept Charles-Edouard **Jeanneret**] <Fine Arts>

Year in Review

Which US politician, a former mayor of Burlington and current Senator, ran progressive Presidential campaigns in 2016 and 2020 and is now embarking on the 'Fighting Oligarchy Tour?'
ANSWER: Bernard "Bernie" **Sanders** <Current Events>

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Kansas JV #3

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World Language

The next three sentences you hear are the same sentence, but in French, German, and Spanish. Translate it into English.
FRENCH: Elle a fini l'épinard hier, donc elle doit en acheter plus.
GERMAN: Sie hat gestern den Spinat gegessen, also muss sie mehr kaufen.
SPANISH: Ella terminó la espinaca ayer, así que necesita comprar más.
ANSWER: **She finished the spinach yesterday, so she needs to buy more.**

Language Arts

A character in this novel is scammed out of one hundred dollars given to him by Freddie Jones, before he meets Jack Duane while he is placed in jail again. Name this novel about Ona and Jurvis's immigration to the U.S., written to expose the horrors of the Chicago meatpacking district by Upton Sinclair.
ANSWER: *The* ***Jungle*** <Literature>

"That the play is the tragedy, "Man," is the topic of this author's poem "The Conqueror Worm." Name this author of *Bells* and *The Raven*.
ANSWER: Edgar Allan **Poe** <Literature>

This novel is followed in its trilogy by *Twenty Years After*. A pair of Queen Anne's diamonds are stolen by Milady de Winter in what Alexandre Dumas novel about Athos, Aramis, and Porthos?
ANSWER: *The* ***Three Musketeers*** [or *Les* ***Trois Mousquetaires***] <Literature>

Science and Health

This compound was mass-produced by Howard Florey and Ernest Chain. Like cephalosporins, this compound interferes with peptidoglycan synthesis in the cell wall. Name this beta-lactam antibiotic discovered by Alexander Fleming.
ANSWER: **penicillin** <Science>

This scientist demonstrated that combustion requires oxygen, disproving the phlogiston theory and establishing the law of conservation of mass before. Name this father of modern chemistry executed during the French Revolution.
ANSWER: Antoine **Lavoisier** [or Antoine-Laurent de **Lavoisier**] <Science>

One of these processes with a namesake wavelength equal to "h over m c" is named for Compton. The sky is blue because of the Rayleigh form of what process in which particles are deflected by other bodies in their path?
ANSWER: **scatter**ing [accept Compton **scatter**ing or Rayleigh **scatter**ing] <Science>

Social Studies

Tourists often take in views of this landmark at the nearby Skylon Tower, and it is home to the largest freshwater ecosystem in the world. The Maid of the Mist and Rainbow Bridge are popular attractions at what New York landmark at the Buffalo-Ontario border?
ANSWER: **Niagara Falls**

A television ad that premiered in this decade showed a three-year-old girl counting to ten before an explosion and was targeted at Barry Goldwater. In what decade did Lyndon B. Johnson succeed John F. Kennedy?
ANSWER: 19**60s** [or The **Sixties**] <History>

The religion of people aboard this ship led them to be labelled "saints" or "strangers." William Bradford and Miles Standish were among the signatories of a democratizing compact named for this ship. Name this ship that landed on Plymouth rock, bringing the Pilgrims to the New World.
ANSWER: **Mayflower** [accept **Mayflower** Compact] <History>

Mathematics

(20 SEC)
What is the sum of all of the possible solutions to the equation $x^2 + 10x - 39 = 0$ ("x squared plus ten x minus thirty-nine equals 0")?
ANSWER: **-10** <Computational Math>

(20 SEC)
Jason has a bag with 10 red, 5 blue, and 5 green gummy bears. If Jason randomly pulls gummy bears out of the bag without replacement, what is the probability of eating 2 green gummy bears in a row?
ANSWER: **1/19** <Computational Math>

(20 SEC)
Triangle ABC is similar to triangle XYZ with side AB corresponding to side XY. If the measure of angle A is 12 degrees and the measure of angle Z is 150 degrees, what is the measure of angle C?
ANSWER: **150** degrees <Computational Math>

Fine Arts

This piece inspired the hymn “Be Still, My Soul.” This piece was reworked from the final movements of its composer’s Press Celebrations Music. This piece was performed under names such as Impromptu to avoid Russian censorship. Name this tone poem titled after the home country of Jean Sibelius.
ANSWER: **Finlandia** [accept **Impromptu** before mention] <Fine Arts>

These locations are separated into four parts in the Chahar Bagh style, exemplified by places like the Taj Mahal. Rocks and raked sand are often included in Asian examples of what locations, a legendary “hanging” version of which was present in Babylon?
ANSWER: **garden**s [accept Hanging **Gardens**] <Fine Arts>

Year in Review

What U.S. politician served as president of the company Great Plains Software before being elected Governor of North Dakota and currently serves as Donald Trump’s Secretary of the Interior?
ANSWER: Doug **Burgum** [or Douglas James **Burgum**] <Current Events>

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Kansas JV #4

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World Language

The next three sentences you hear are the same sentence, but in French, German, and Spanish. Translate it into English.
FRENCH: Le vieil homme serait malade du cœur, mais puis il a rendu visite à la cardiologue.
GERMAN: Der alte Mann hatte früher Herzprobleme, aber dann hat er den Kardiologen besucht.
SPANISH: El anciano tenía problemas de corazón, pero entonces visitó al cardiólogo.
ANSWER: **The old man used to have heart problems, but then he visited the cardiologist.**

Language Arts

The title characters of this novel act out scenes from *Pilgrim's Progress* on Christmas morning, when they bring their breakfast to the poor Hummel family. Name this novel about Meg, Jo, Beth, and Amy, written by Louisa May Alcott.
ANSWER: ***Little Women*** <Literature>

A character in this novel is described as smelling "like trees" by Benjy. Name this Southern Gothic novel about the Compson family, written by William Faulkner.
ANSWER: *The* ***Sound and the Fury*** <Literature>

One of this author's plays ends with the marriage of Duke Orsino and Viola, who just cast away her disguise as Cesario. Which playwright of *Twelfth Night* also wrote a pair of "star-cross'd lovers" in *Romeo and Juliet*?
ANSWER: William **Shakespeare** <Literature>

Science and Health

This process relies on recognition of the UACUAAC ("wack-wack") element in a branch point by the U2 snRNP ("snurp"), allowing a lariat to form. Name this process in which introns are removed to create a mature messenger RNA.
ANSWER: RNA **splicing**

This element forms a weak acid that can dissolve glass, and it is the most electronegative element found on the periodic table. Name this lightest halogen, with symbol F.
ANSWER: **fluorine** [accept **F** before mentioned] <Science>

Two linked examples of these systems exhibit chaotic motion. The small angle approximation can be used to set the period of these systems equal to "square root L over g." What systems consist of a mass attached to a string?
ANSWER: **pendulum**s <Science>

Social Studies

The city of Nanaimo ("nuh-NYE-moh") is on this island, to which the ferry *Coho* travels from Port Angeles, Washington. What island on the Strait of Juan de Fuca is home to Victoria, the capital of British Columbia?
ANSWER: **Vancouver** Island <Geography>

This man took a solar eclipse and a blue-green sun as omens to start an uprising that ended two days later at Belmont Plantation. In 1831, what resident of Southampton County, Virginia, led the deadliest slave revolt in U.S. history.
ANSWER: Nat **Turner** <History>

This author of Kidnapped in London developed the Three Principles of the People as his philosophy. This founder of the Kuomintang was succeeded by Chiang-Kai Shek as leader of his nation. Name this first president of the Republic of China.
ANSWER: **Sun** Yat-Sen [or **Sun** Deming; or **Sun** Wen; or **Sun** Zhongshan; or **Sun** Dixiang; or **Sun** Yixian; or **Sun** Rixin; accept **Nakayama** Sho] <History>

Mathematics

(20 SEC)
In slope-intercept form, what is the equation of the line that passes through the points (4, 5) ("four comma five") and (7, 17) ("seven comma seventeen")?
ANSWER: **y = 4x - 11** ("y equals four x minus eleven") <Computational Math>

(20 SEC)
If $f(x) = x^3 + 2x - 5$ ("f of x equals x cubed plus two x minus 5"), what is the value of f(5) ("f of 5")?
ANSWER: **130** <Computational Math>

(20 SEC)
If 40% of the objects in a box are green and 30% of those green objects are spotted, what percentage of objects in the box are not both green and spotted?
ANSWER: **88**% <Computational Math>

Fine Arts

This composer was commissioned by Walter Damrosch for his *Concerto in F*. Ferde Grofe orchestrated a piece by this composer whose "steely rhythms" were inspired by a train ride. A clarinet glissando opens what composer's *Rhapsody in Blue*?
ANSWER: George **Gershwin** <Fine Arts>

This artist included his signature monogram that resembles a gate in his *Self-Portrait at Twenty-Eight*. A brooding angel sits near a magic square in a work by this artist, who also depicted a goat-headed figure holding an hourglass in a "master print." *Melencolia I* and *Knight, Death, and the Devil* are prints by what German engraver?
ANSWER: Albrecht **Durer** <Fine Arts>

Year in Review

In this country, the French slogan "C'BON" ("suh-bone") is used by its incumbent leader Brice Oligui Nguema, who overthrew its Bongo dynasty. What Central African country is governed from Libreville?
ANSWER: **Gabon** <Current Events>

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Kansas JV #5

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World Language

The next three sentences you hear are the same sentence, but in French, German, and Spanish. Translate it into English.
FRENCH: Ils vont aller à la pharmacie pour se faire vacciner contre la grippe.
GERMAN: Sie gehen zur Apotheke, um eine Grippeimpfung zu bekommen.
SPANISH: Ellos van a la farmacia para vacunarse contra la gripe.
ANSWER: **They are going to the pharmacy to get a flu shot.**

Language Arts

This novel sees Edgar Derby get executed for stealing a teapot, which the narrator responds to with the phrase "so it goes." Which novel sees Billy Pilgrim relive the firebombing of Dresden and is written by Kurt Vonnegut?
ANSWER: ***Slaughterhouse-Five***, *or The Children's Crusade: A Duty Dance with Death* <Literature>

This author created the jazz drummer Rufus in the novel *Another Country* and wrote about the Temple of the Fire Baptized in one novel. Name this African-American author of *The Fire Next Time* and *Go Tell It on the Mountain*.
ANSWER: James **Baldwin** [or James Arthur **Baldwin**] <Literature>

In a novel by this man, the protagonist carries around an x-ray of a woman's lung. What German author wrote about Clavdia Chauchat ("KLAV-dee-ah show-sha") in *The Magic Mountain* and also wrote the novella *Death in Venice*?
ANSWER: Thomas **Mann** <Literature>

Science and Health

This variable can be raised in renal artery stenosis or pheochromocytoma. This variable is falsely elevated in white-coat syndrome. Name this vital sign that is high in hypertension, commonly reported as systolic over diastolic.
ANSWER: **blood pressure** [or **BP**] <Science>

The alpha-capture process can produce this element by fusing oxygen and helium. A laser made from helium and this element produces a brilliant red color often used in flashy signs. Name this noble gas with symbol Ne.
ANSWER: **neon** [accept **Ne** before mentioned] <Science>

This man names the SI unit of magnetic flux density, as well as a device that generates visible high-voltage AC electricity, his namesake "coil." What rival of Thomas Edison lends his name to an electric car company whose CEO is Elon Musk?
ANSWER: Nikola **Tesla** [or **Tesla** coil] <Science>

Social Studies

Which US mountain located in south-central Alaska is the namesake for a national park and holds the title for the highest peak in North America?
ANSWER: **Denali** [or **McKinley**] <Geography>

A man with this last name wrote the Massachusetts Circular Letter with James Otis to protest the Townshend Acts and led the Sons of Liberty in Boston. What last name was held by the second President of the United States?
ANSWER: **Adams** [accept John **Adams** or Samuel **Adams**] <History>

This country's ruling Pentarchy of 1933 was controlled by a general who led the Sergeants' Revolt. A conference between members of the American and Sicilian mafias was held in this country under Fulgencio Batista. Name this country where Batista was later overthrown by Fidel Castro.
ANSWER: Republic of **Cuba** <History>

Mathematics

(20 SEC)
What is the length of one edge of a cube whose surface area is 726 square meters?
ANSWER: **11** meters <Computational Math>

(20 SEC)
If Cassandra flips 5 regular pennies, what is the probability that she gets exactly 4 heads?
ANSWER: **5/32** [accept **0.15625** or **15.625%**] <Computational Math>

(20 SEC)
What is the median of a dataset that includes the values 1, 1, 1, 5, 5, 100, 1253, 1782, 1901, and 2000?
ANSWER: **52.5** <Computational Math>

Fine Arts

A composer from this country wrote the mournful piece "Oblivion" for the film *Enrico IV*. The "Four Seasons" of this country's capital were depicted in a set of pieces that features the bandoneón. Astor Piazzolla is from what country, the origin of the tango?
ANSWER: **Argentina** <Fine Arts>

Many painters influenced by this artist including Gerrit van Honthorst were based in Utrecht. A painting this artist created for the Contarelli Chapel depicts Jesus pointing at a titular illuminated tax collector. This artist popularized an extreme form of chiaroscuro known as tenebrism. Name this baroque painter of *The Calling of Saint Matthew*.
ANSWER: Michelangelo **Merisi** da **Caravaggio** [or **Amerighi** da **Caravaggio** or Michele Angelo **Merigi** da **Caravaggio**; accept any underlined portion] <Fine Arts>

Year in Review

Senator Joni Ernst of Iowa said "we're all going to die" during a town hall in response to a heckle about the Medicaid provisions in this legislation which also eliminated taxes on some overtime and tipped wages.
ANSWER: **One Big Beautiful Bill** Act [or **OBBB**A] <Current Events>

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Kansas JV #6

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World Language

The next three sentences you hear are the same sentence, but in French, German, and Spanish. Translate it into English.
FRENCH: Il y a trois ans, j'ai cassé mon pied dans deux lieux.
GERMAN: Drei Jahren vor, ich have mein Fuß an zwei Stellen gebrochen.
OR
Vor drei Jahren habe ich mir den Fuß an zwei Stellen gebrochen.
SPANISH: Hace tres años, me rompí el pie en dos lugares.
ANSWER: **Three years ago, I broke my foot in two places.**

Language Arts

This novel's narrator is saved by the *Rachel* after clinging onto the unused coffin of Queequeg for a whole day. What story set aboard the *Pequod* is about hunting the title pallid whale and is by Herman Melville?
ANSWER: ***Moby-Dick*** <Literature>

In a story by this author, a man talks to Jig about getting an abortion. Uncle George and a doctor perform a C-section in "Indian Camp," a short story about Nick Adams by what American author of "Hills Like White Elephants?"
ANSWER: Ernest **Hemingway** [accept Ernest Miller **Hemingway**] <Literature>

This author compares Chaucer's works to the poems of Tagore in an introduction for the collection *Gitanjali*. Which poet describes a "rough beast" that "slouches towards Bethlehem" in "The Second Coming"?
ANSWER: William Butler **Yeats** <Literature>

Science and Health

The transport of these compounds is regulated by PIN proteins. One of these compounds called 2,4-D is commonly used in herbicides. The most common one of these compounds, indole-3-acetic acid, plays a central role in phototropism. Stem elongation and root growth are caused by what plant hormones?
ANSWER: **auxin**s [prompt on plant hormones before mention] <Science>

This scientist names a law stating that gases with equal volumes have an equal number of molecules. What Italian scientist names a constant describing the number of particles in a mole, which is around 6.02 times 10 to the 23rd?
ANSWER: Amedeo **Avogadro** [or **Avogadro**'s law or **Avogadro**'s constant or **Avogadro**'s number] <Science>

This spin-zero particle was discovered in the ATLAS and CMS experiments, and is responsible for imparting mass on other particles via its namesake mechanism. Name this particle discovered at the LHC in 2012.
ANSWER: **Higgs** boson <Science>

Social Studies

This state's highest point is Britton Hill, the lowest high point for any U.S. state. The Kissimmee River flows into this state's Lake Okeechobee. The Everglades are located in what state that contains the cities of Orlando and Miami?
ANSWER: **Florida** <Geography>

Terry Strubbe made an audio recording of this event, and its victims were protesting the invasion of Cambodia during the Vietnam War. In what event were student protesters murdered by National Guardsmen at an Ohio university?
ANSWER: **Kent State Massacre** [or **Kent State Shooting**; or **May 4 massacre**] <History>

A holder of this position was photographed smashing pinball machines in opposition to Frank Costello's influence. Before holding this position, a politician co-named an act banning Yellow Dog contracts with George Norris. Fiorello LaGuardia was a longtime holder of what position, the leader of the United States' most populous city?
ANSWER: **mayor** of **New York** City [accept **mayor** of **NYC**; prompt on mayor] <History>

Mathematics

(20 SEC)
What is the sum of the following: sine of 180 degrees, plus cosine of 180 degrees, plus tangent of 180 degrees?
ANSWER: **-1** ("negative one") [reject "1"] <Computational Math>

(20 SEC)
What is the value of sin(3x) ("sine of three x") if x equals fifty degrees?
ANSWER: **1/2** [or **0.5**] <Computational Math>

(20 SEC)
What is the mean of a dataset that includes the values 1, 2, 8, 10, 3, 7, 11, and 4?
ANSWER: **5.75** [or **5 3/4** ("five and three fourths" or "five and three quarters")] <Computational Math>

Fine Arts

This instrument is the soloist in As Slow As Possible, a John Cage piece set to finish in 2640, and Bach wrote his Toccata and Fugue in D minor for this instrument. Air flows through the pipes of what large keyboard instruments that are often found in churches?
ANSWER: pipe **organ** <Fine Arts>

In this opera, the central character tells a lover to return to her after a white camellia withers, and sings the aria "Sempre Libera." A famous drinking song features in the first act of what Giuseppe Verdi opera about the courtesan Violetta Valery?
ANSWER: *La **Traviata*** <Fine Arts>

Year in Review

In this state, Pat Herrity dropped out of a Republican primary for Lieutenant Governor, and the eventual GOP nominee John Reid was asked to drop out by Governor Glenn Youngkin. Name this state where Winsome Earle-Sears and Abigail Spanberger are running for the governor's office in Richmond.
ANSWER: **Virginia** <Current Events>

THE LONG ISLAND QUIZ BOWL ALLIANCE

Kansas JV #7

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World Language

The next three sentences you hear are the same sentence, but in French, German, and Spanish. Translate it into English.
FRENCH: Je suis la nièce de mon oncle et mon frère est le neveu de ma tante.
GERMAN: Ich bin die Nichte meines Onkels, und mein Bruder ist der Neffe meiner Tante.
SPANISH: Soy la sobrina de mi tío y mi hermano es el sobrino de mi tía.
ANSWER: **I am my uncle's niece and my brother is my aunt's nephew.**

Language Arts

A character works as an impersonator of this real-life man in Susan Lori-Park's play *Topdog/Underdog*. What man is mourned in poems like "When Lilacs Last in the Dooryard Bloom'd" and "O Captain! My Captain?"
ANSWER: Abraham **Lincoln** <Literature>

What three letters begin words meaning: "a tombstone inscription about a dead person," "satirical poems like those written by Martial," "a long poem about heroic figures," and "the opposite of a prologue?"
ANSWER: **epi**- [the words are "epitaph," "epigram," "epic," and "epilogue"] <Vocabulary>

In this play, a fountain pen belonging to Bill Oliver is stolen. While attempting to collect insurance money in this play, a father of Happy and Biff commits suicide by crashing his car. Willy Loman's death is chronicled in what Arthur Miller play?
ANSWER: ***Death of a Salesman*** <Literature>

Science and Health

Binding of this molecule is the focus of the NBD portion of ABC proteins. Adenylyl cyclase converts this molecule into the secondary messenger cAMP (camp), and this molecule is formed by a rotor-shaped protein using a proton gradient. Cellular respiration produces this molecule in the mitochondria. Name this "energy currency" of the cell.
ANSWER: **ATP** [or **adenosine triphosphate**] <Science>

A compound made of this element and nitrogen is known as inorganic benzene. This element's trifluoride is a textbook example of a compound that violates the octet rule. What element with atomic number 5 has the symbol B?
ANSWER: **boron** [accept **B** before mentioned] <Science>

A type of this effect explains why motorcycle smoke and some irises appear blue and is named for Tyndall. This kind of effect named for Rayleigh explains the sky's blue color. Name this effect in which a particle deflects another particle.
ANSWER: light **scatter**ing <Science>

Social Studies

Tourists can view colorful sunsets at Artists' Palette in this U.S. national park, where Zabriskie Point is an iconic site. The only national park home to pupfish at its Devils Hole is what California park, the hottest one in the U.S.?
ANSWER: **Death Valley National Park** [accept **Death Valley**] < American Geography >

This man aired infomercial-style lectures as advertisements during primetime television and described NAFTA as causing a "giant sucking sound." What third party candidate garnered nearly 19% of the popular vote in the 1992 Presidential Election?
ANSWER: Ross **Perot** [or Henry Ross **Perot**] <History>

This emperor was given the elephant Abul-Abbas, who died at Lippeham, by Harun al-Rashid. What emperor's campaign at Roncevaux Pass against the Basques is depicted in a *chanson* titled for one of his Frankish knights, *The Song of Roland*?
ANSWER: **Charlemagne** [or **Carolus Magnus** or **Charles I** or **Charles the Great**; prompt on Charles] <History>

Mathematics

(20 SEC)
What is the value of the tangent of angle Z in the triangle XYZ if angle X is 90 degrees and angle Y is 30 degrees?
ANSWER: **√3** ("root three" or "square root of three") <Computational Math>

(20 SEC)
What is the value of x if the mean of the dataset is 10 and it contains the numbers 1, 19, 14, 12, and x?
ANSWER: **4** <Computational Math>

(20 SEC)
There are 20 students in Jonathan's class and 5 of them bring fruit snacks to school, 12 bring goldfish, and 3 bring crackers. If Jonathan randomly selects 2 students, what is the probability that they both bring crackers to school?
ANSWER: **3/190** <Computational Math>

Fine Arts

This composer wrote Six Dances in Bulgarian Rhythm to end a collection of 153 progressively harder piano pieces. Mikrokosmos and a Concerto for Orchestra are by what composer, who collaborated with Zoltan Kodaly to collect folk music from his native Hungary?
ANSWER: Béla **Bartók** [or Béla Viktor János **Bartók**] <Fine Arts>

A product of this fashion house was the only thing Marilyn Monroe wore to bed according to a Life interview. This house's namesake popularized the Little Black Dress. The No. 5 perfume is sold by what French fashion house whose logo consists of two interlocked C's?
ANSWER: **Chanel** [accept **Chanel** Limited] <Fine Arts>

Year in Review

The ban of this app was allowed due to the Supreme Court upholding the PAFACA ("puh-fa-kah") Act . Donald Trump soon delayed the ban of what social media app owned by ByteDance?
ANSWER: **TikTok** <Current Events>

THE LONG ISLAND QUIZ BOWL ALLIANCE

Kansas JV #8

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World Language

The next three sentences you hear are the same sentence, but in French, German, and Spanish. Translate it into English.
FRENCH: Le bébé fera la famille plus grande et plus contente.
GERMAN: Das Baby wird die Familie größer und glücklicher machen.
SPANISH: El bebé hará que la familia sea más grande y feliz.
ANSWER: **The baby will make the family bigger and happier.**

Language Arts

This novel's protagonist encounters the flaming princess after meeting the title character in Guillaume's bar while his girlfriend is away in Spain. David struggles with his homosexuality in what James Baldwin novel set in Paris?
ANSWER: ***Giovanni's Room*** <Literature>

A myth about this word states that it originated with Dublin theatre owner Richard Daly, who bet he could introduce a new word by writing it on city walls. What word, defined as "a test of knowledge," refers to the activity you are doing now?
ANSWER: **quiz** <Vocabulary>

In this story, Helen pulls Compton aside in a dream the central character has after being unable to speak while death weighs on his chest. Name this short story about the writer Harry dying of gangrene, written by Ernest Hemingway.
ANSWER: "The **Snows of Kilimanjaro**" <Literature>

Science and Health

This process prevents the transmission of brucellosis ("broo-suh-LOH-sis") and Q-fever. The HTST form of this process applies a temperature of 71.5 degrees Celsius for 15 seconds. What process invented by a French scientist is used to sterilize milk?
ANSWER: **pasteurization** [prompt on heating or sterilization] <Science>

This acid is produced via a vanadium oxide catalyst in the contact process. In antiquity, this highly corrosive acid was known as oil of vitriol. What strong acid has the chemical formula H2SO4 ("H-two-S-O-four")?
ANSWER: **sulfuric** acid [accept **oil of vitriol** before mentioned; accept **H2SO4** before mentioned] <Science>

Connected "trains" of these devices are selected in an automobile's transmission system. Torque can be transmitted through the rotation of what devices that interact with each other via teeth?
ANSWER: **gear**s [or **cogwheel**s or **cog**s] <Science>

Social Studies

An increase in this quantity can permanently decrease interest rates according to the Mundell-Tobin effect. This quantity, which has demand-pull and cost-push types, is graphed inversely with unemployment on a Philipps curve. A Consumer Price Index measures what quantity, the rate at which prices increase?
ANSWER: **inflation** [accept **inflation** rate] <Social Science>

An assassination attempt on this president spearheaded by Griselio Torresola fatally wounded Leslie Coffelt. Puerto Ricans tried to assassinate this president whose time in office saw the "Do-Nothing Congress" oppose his Fair Deal. Atomic bombs were dropped on Hiroshima and Nagasaki by what president who succeeded FDR?
ANSWER: Harry S. **Truman** <History>

Rudolf Virchow challenged this politician to the Great Sausage Duel. This politician's Minister of Education, Adalbert Falk, authored the May Laws that opposed the Catholic Church during the Kulturkampf. The "blood and iron" speech was delivered by what "Iron Chancellor" who unified Germany?
ANSWER: Otto von **Bismarck** [or Otto Eduard Leopold von **Bismarck**] <History>

Mathematics

(20 SEC)
Dave has 700 pieces of paper that are 1 centimeter by 1 centimeter. What is the area of the largest square that he could build?
ANSWER: **676** centimeters squared

(20 SEC)
How many kittens does Carol own if they collectively possess 33 more legs than tails?
ANSWER: **11** kittens

(20 SEC)
What is the sum of the possible solutions for the equation $x^2 - 7x + 10 = 0$ ("x squared minus seven x plus ten equals zero")?
ANSWER: **7** <Computational Math>

Fine Arts

This composer included The Shrovetide Fair and The Moor's Room as settings in a work about puppets. Koschei dances an Infernal Dance in another ballet by this composer of Petrushka. A virgin dances herself to death at the end of this composer's most famous work. Name this Russian composer of The Firebird and The Rite of Spring.
ANSWER: Igor **Stravinsky** <Fine Arts>

This singer recorded the Gershwin standard "Embraceable You" for the album *Body and Soul*. Lester Young often collaborated with this musician who mentioned "blood on the leaves" in an anti-lynching song. What singer of "Strange Fruit" was nicknamed "Lady Day?"
ANSWER: Billie **Holliday** [or Eleanora **Fagan**; accept **Lady Day** before mention] <Fine Arts>

Year in Review

This politician's tenure saw the investigation of the consulting firm Pearl Alliance, leading to the resignation of Philip Banks III, and his police commissioner Edward Caban also had his phone seized in an investigation. Bribes from the government of Turkey have rocked the tenure of what New York City mayor?
ANSWER: Eric **Adams** <Current Events>