



## THE LONG ISLAND QUIZ BOWL ALLIANCE

### Sample Packet - Middle School

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## Tossups

1. **This amusement park's Reedy Creek Improvement District was dismantled by its state's government. Lake Buena Vista is what (\*) Florida park's mailing address, where a geodesic sphere contains Spaceship Earth in EPCOT?**

ANSWER: Walt Disney World Resort [prompt on Disney; do not accept or prompt on "Disneyland"] <General Knowledge>

2. **The second of three "symphonic sketches" by this composer is entitled "Play of the Waves" and forms part of his piece *La Mer*. What (\*) French composer's *Suite Bergamasque* contains *Claire de lune*?**

ANSWER: (Achille) Claude Debussy <Fine Arts>

3. **This monarch's spymaster, Sir Francis Walsingham, discovered the Babington plot, a plan to replace this monarch with Mary, Queen of Scots. What monarch defeated the (\*) Spanish Armada, sponsored William Shakespeare, and was often called the Virgin Queen?**

ANSWER: Elizabeth I Tudor [or Elizabeth Tudor; prompt on Elizabeth] <History>

4. **One of these creatures who lives on Mount Pelion gave Peleus an ash-wood spear during his wedding to Thetis, which was later used by Achilles during the Trojan War. (\*) Chiron was a wise member of what mythical race of half-human half-horses?**

ANSWER: centaurs <Mythology>

5. **A linear system whose equations represent lines or planes with this property has no solutions. What property, held by one pair of opposite sides of a (\*) trapezoid, is generally held by two lines which never intersect?**

ANSWER: parallel <Science>

6. **This national park, home to the Timbisha tribe, is on the southwestern edge of the Great Basin. Home to Badwater Basin, what (\*) California national park has the lowest point and is the hottest in North America?**

ANSWER: Death Valley National Park <Geography>

7. **One athlete from this family sits behind Quinn Ewers as the University of Texas's backup quarterback and is named Arch. What family of quarterbacks include 2012 Super Bowl MVP (\*) Eli and his brother Peyton?**

ANSWER: Manning [accept Archibald Charles Manning; accept Elisha Nelson Manning; accept Peyton Williams Manning] <Pop Culture>

8. **This American movement, promoted by the Silent Sentinels, began with the drafting of the Declaration of Sentiments. What movement secured the ratification of the (\*) 19th Amendment after protests led by Susan B. Anthony and Alice Paul?**

ANSWER: women's suffrage [accept women gaining the right to vote; prompt on suffrage or suffragettes; prompt on women's rights] <History>

9. These animals' propulsion is controlled by a giant axon used to study nerve conduction. One species of these animals has the largest eyes of any animal and may have inspired the (\*) kraken. What cephalopod mollusks are eaten as calamari?

ANSWER: squids [accept specific types of squids] <Science>

10. This character escapes being imprisoned by his father Pap, then encounters the Duke and the Dauphin while rafting down the (\*) Mississippi River. What character, who helps the escaped slave Jim, is best friends with Tom Sawyer?

ANSWER: Huckleberry Finn [accept either underlined portion] <Literature>

11. This artist painted a woman's head on the head of a four-legged animal in *The Wounded Deer* and depicted the aftermath of a bus accident she suffered in *The Broken Column*. What (\*) Mexican artist depicted her unibrow in many of her self-portraits?

ANSWER: Frida Kahlo <Fine Arts>

12. A story by this author depicts Grete ("gre-tuh") feeding her brother after he transforms into vermin. What author of *The Trial* wrote about (\*) Gregor Samsa turning into a giant insect in *The Metamorphosis*?

ANSWER: Franz Kafka <Literature>

13. What is the y-intercept of a line that passes through the point (3, 3) and has a slope of 1/2, given that the slope-intercept form of a line is  $y = mx + b$  where m represents slope and (\*) b is the y-intercept?

ANSWER: 3/2 [or 1.5] <Computational Math>

14. These devices are the namesake of a 2022 federal act that spurred a 12-billion dollar foreign investment in Arizona for a Taiwanese company's plant. What general (\*) computer components are produced by AMD, Intel, and Nvidia?

ANSWER: chips [or semiconductors or integrated circuits or IC's or printed circuit boards or PCB's or printed wiring boards or PWB's; prompt on circuits or boards] <Current Events>

15. A mid-1900s famine was partly caused by this leader's attempt to exterminate sparrows, part of the Four Pests Campaign. What leader briefly allowed criticism in the Hundred Flowers campaign and launched the (\*) Great Leap Forward as the first Chairman of the Chinese Communist Party?

ANSWER: Mao Zedong [or Chairman Mao] <History>

16. Sometimes called the Geiger-Marsden Experiment, this scientist's namesake experiment bombarded a sheet of metal with over 20,000 alpha particles, disproving JJ Thomson's plum pudding model. What scientist, who is credited with discovering the atomic (\*) nucleus, conducted his namesake gold foil experiment?

ANSWER: Ernest Rutherford [accept 1st Baron Rutherford of Nelson] <Science>

17. This poem asks "did he who made the Lamb make thee?" The title creature of this poem has a "fearful symmetry" and burns (\*) "bright, in the forests of the night." William Blake wrote what poem about a large cat?

ANSWER: "The Tyger" <Literature>

18. After appearing in photos of this event, Louie Witt became known as the "Umbrella man"; this event was also captured by the Zapruder film. The Warren Commission investigated what (\*) 1963 event in which Lee Harvey Oswald shot and killed an American president?

ANSWER: the assassination of John Fitzgerald Kennedy [accept reasonable equivalents; prompt on assassination of Kennedy] <History>

19. This man declared "love is patient, love is kind" and was asked "Why do you persecute me?" after being blinded on the road to Damascus, causing him to (\*) convert to Christianity. What is the name of the apostle who wrote Romans, Ephesians, and many other epistles?

ANSWER: Paul the Apostle [or Saint Paul or Saul of Tarsus] <Religion>

20. The only proteinogenic amino acids that contain this element are methionine and cysteine. This element is bonded to hydrogen in thiols (“THY-alls”), which are compounds that often smell like (\*) “rotten eggs.” What element can be found below oxygen on the periodic table?

ANSWER: sulfur [or S] <Science>

## Bonuses

1. Answer the following about Pompeii:

Pompeii was an ancient city in this country, whose present-day cities include Naples and Milan.

ANSWER: **Italy** [or **Italia**]

Pompeii was destroyed by the eruption of this volcano in the year 79, which also destroyed Herculaneum.

ANSWER: Mount **Vesuvius**

An artwork of this type, discovered at the House of the Faun in Pompeii, depicts Alexander the Great's victory at the Battle of Issus and was created from tesserae.

ANSWER: **mosaics**

<History>

2. Answer the following about books published by the imprint Rick Riordan Presents:

The books published by the imprint are meant to be similar to Riordan's books about this son of Poseidon, who first appears in *The Lightning Thief*. This character leads an army against Kronos in *The Last Olympian*.

ANSWER: **Percy Jackson** [accept either]

*The Thousand Worlds* trilogy published by the imprint includes elements of the mythology of this peninsula. Yoon Ha Lee used elements of the mythology of this Asian peninsula in *Dragon Pearl*.

ANSWER: **Korean** Peninsula

Sik Aziz attempts to stop a Mesopotamian deity's takeover of this city in *City of the Plague God*, a book published by the imprint. Mount Olympus is located on top of a building in this American city in the Riordanverse.

ANSWER: **New York** City [accept **NYC**]

<Literature>

3. Answer the following about a particular Renaissance painter and sculptor.

This artist painted *The Last Judgment* and the Sistine Chapel ceiling for his patron, Pope Julius II.

ANSWER: **Michelangelo** di Lodovico **Buonarroti** Simoni [accept either underlined name]

The first large free-standing marble statue since antiquity depicted this Biblical figure holding a sling over his back before battling Goliath.

ANSWER: **David**

The figures behind God form a shape resembling the human brain in this painting in the Sistine Chapel. This painting's title figure, who was the first man made by God, may be depicted with an extra rib.

ANSWER: *The **Creation of Adam***

<Fine Arts>

4. Answer the following about villanelles:

The villanelle form uses five tercets, which have this many lines, followed by a quatrain. A haiku also has this many lines.

ANSWER: **three**

This author of the villanelle "Mad Girl's Love Song" declares "I'm through" in her poem "Daddy." This woman, who was clinically depressed while married to Ted Hughes, wrote the novel *The Bell Jar*.

ANSWER: Sylvia **Plath**

This villanelle by Dylan Thomas with an eight-word title claims that "old age should burn and rave at close of day" and urges the author's father to "rage, rage against the dying of the light."

ANSWER: "**Do not go gentle into that good night**"

<Literature>

5. Answer the following about Bowen's reaction series.

Bowen's reaction series gives the order of temperatures in which materials of this type crystallize. Rocks of this type are formed from cooled lava, and are contrasted with sedimentary and metamorphic.

ANSWER: **igneous** rocks

The continuous branch of Bowen's reaction series depicts plagioclase feldspars going from rich in calcium to rich in this other element. Table salt is composed of chlorine and this element.

ANSWER: **sodium** [or **Na**]

This mineral appears on the bottom of Bowen's reaction series. This mineral, which has a "shocked" variety, has a Mohs hardness of 7.

ANSWER: **quartz**

<Science>

6. Name these candidates from the 2024 U.S. presidential election:

1. This woman won several states, including New York and California, but finished runner-up to Donald Trump.

ANSWER: Kamala (Devi) **Harris**

2. This female doctor, who was the candidate for the Green Party, also ran for president in 2016.

ANSWER: Jill (Ellen) **Stein**

3. "Truth, Love & Justice" was the slogan of this socialist and activist, whose running mate was Melina Abdullah. This man was the first Black person to receive a Ph.D. in philosophy from Princeton.

ANSWER: Cornel (Ronald) **West**

<Current Events>

7. Answer the following about Captain America:

This material from Wakanda was used to create Captain America's shield.

ANSWER: **vibranium**

This actor played Captain America in several MCU movies, including *Avengers: Endgame*.

ANSWER: Chris **Evans**

This two-word term is used to refer to Captain America's friend Bucky Barnes in the subtitle of a 2014 MCU movie in which he is brainwashed by Hydra.

ANSWER: The **Winter Soldier**

<Pop Culture>

8. Answer the following about the Mississippi River:

The Mississippi River flows past this capital of Louisiana before emptying into the Gulf of Mexico. Its name in French means "red stick."

ANSWER: **Baton Rouge**

The Mississippi River port of Vicksburg was captured during this war, which also included fighting at Chancellorsville.

ANSWER: American **Civil** War

This Spanish explorer was the first European to cross the Mississippi River, doing so in Arkansas before dying in Texas.

ANSWER: Hernando **de Soto**

<History>

9. Answer the following questions about fats.

Fats are part of this broader group of molecules. The "phospho-" form of these molecules makes up cell membranes.

ANSWER: **lipids**

Fatty acids are broken down via beta-oxidation in this organelle, which is nicknamed the "powerhouse of the cell."

ANSWER: **mitochondria** [or **mitochondrion**]

Branched-chain and very long chain fatty acids are instead broken down in this organelle. This organelle's functions include carrying out the glyoxylate cycle and oxidizing harmful radicals. Formaldehyde is oxidized by H<sub>2</sub>O<sub>2</sub> in this organelle.

ANSWER: **peroxisomes**

<Science>

10. Answer the following about largely unrecognized states:

Abkhazia and South Ossetia are breakaway regions of this country in the Caucasus governed from Tbilisi, which shares its name with a southeastern US state.

ANSWER: **Georgia** [or **Sakartvelo**]

The Sahrawi Arab Democratic Republic claims to be the rightful government of the territory of Western Sahara, which is also claimed by this North African country.

ANSWER: Kingdom of **Morocco**

This European country contains the unrecognized breakaway state of Transnistria and is bordered only by Romania and Ukraine.

ANSWER: Republic of **Moldova**

<Geography>

11. **Math Computation.** Answer the following about an infinite geometric sequence whose first term is 3 and whose third term is 12:

What is the common ratio of the sequence?

ANSWER: **2**

What is the tenth term of the sequence?

ANSWER: **1536**

What is the sum of the reciprocals of each term of the sequence?

ANSWER: **2/3**

<Computational Math>

12. Answer the following about the Mongol Empire:

This founder of the Yuan Dynasty also founded the Mongol Empire.

ANSWER: **Genghis** Khan [or **Chinggis** Khan; or **Temujin**]

This event, exacerbated by the Mongols through biological warfare, was spread by Genoese ships that arrived in Messina from Caffa.

ANSWER: **Black Death** [or **Black Plague**; or **bubonic plague**]

This Japanese name was given to a natural phenomenon that stopped the Mongol Army from invading Japan after a battle on Tsushima Island.

ANSWER: **kamikaze**

<History>

13. Answer the following questions about elements of the periodic table:

These exceedingly unreactive elements can be found in the last column of the periodic table.

ANSWER: **noble gases**

This element makes up 73% of the sun's mass and is the most abundant element in the universe.

ANSWER: **hydrogen** [accept **H**]

Alkali earth metals such as potassium and calcium have this many valence electrons.

ANSWER: **one**

<Science>

14. Answer the following questions about delicious things in a certain author's novels.

*Charlie and the Chocolate Factory* was written by this author, who also discussed his experiences at St Peter's school in *Boy*.

ANSWER: Roald **Dahl**

The title character of this novel journeys with giant bugs to New York to escape from his two cruel aunts.

ANSWER: **James and the Giant Peach**

A drink in this novel, frobscottle, contains bubbles which sink downwards rather than upwards. The title character of this novel eats snozzcumbers because he does not eat humans.

ANSWER: The **BFG** [accept The **Big Friendly Giant**]

<Literature>

15. Answer the following about unusual orchestration in classical music.

Although often played solo, two of these instruments appear in Saint-Saens's *The Carnival of the Animals*, which includes a section where players of this instrument with 88 black and white keys pretend to be beginners.

ANSWER: **piano** [or **pianoforte**]

“La Marseillaise” and “God Save the Tsar” are interpolated in this piece that includes a part for cannons. Tchaikovsky composed this piece to commemorate a Russian victory in the Battle of Borodino.

ANSWER: **1812 Overture**

The sixth and final piece in this 1721 collection notably excludes violins. Christian Ludwig commissioned J.S. Bach to write this collection of six concertos.

ANSWER: **Brandenburg Concertos**

<Fine Arts>

16. Answer the following about commonly consumed beverages:

This beverage company, headquartered in Atlanta, names the world's most popular soft drink and is rivaled by Pepsi.

ANSWER: **Coca-Cola**

This energy drink company is also well known for sponsoring extreme sports. Max Verstappen is a star driver for this company's Formula 1 team.

ANSWER: **Red Bull**

This non-soft drink company has drawn praise for selling their 23-ounce cans for 99 cents since the 1990s.

ANSWER: **Arizona** Iced Tea

<General Knowledge>

17. Answer the following about the roots of a polynomial.

A quadratic polynomial, which graphs a parabola, can have at most this many real roots.

ANSWER: **2** roots

The number of real roots of a quadratic is determined by the sign of this value, which appears inside the square root of the quadratic formula. Either the proper name or expression is acceptable.

ANSWER: **discriminant** (accept  **$b^2 - 4ac$**  [B squared minus four (times) A (times) C])

According to one of these formulas, all coefficients of a polynomial can be expressed as a combination of the sums or products of its roots.

ANSWER: **Vieta's** formula

<Science>

18. Answer the following about the 1849 Gold Rush:

The 1849 Gold Rush saw thousands of migrants flock to this West Coast state.

ANSWER: **California**

This capital city became a boom town during the gold rush.

ANSWER: **Sacramento**

Participants in the gold rush typically had to cross this mountain range, whose name contains a state led from Carson City.

ANSWER: **Sierra Nevadas** [prompt on **Nevada**]

<History>

19. Answer the following about the *Ramayana*.

The *Ramayana* details the story of Rama, an avatar of this Hindu deity. This god is often paired with Shiva and Brahma in the Trimurti.

ANSWER: **Vishnu**

When Rama is exiled, Lakshmana, a person with this relationship to him, goes with him. In Greek mythology, Hector and Paris have this relationship.

ANSWER: **brothers** [prompt on being **family** by asking “what specific relationship they have?”]

In the *Ramayana*, this wife of Rama is abducted by the demon king Ravana. This deity is considered an avatar of Lakshmi.

ANSWER: **Sita** <Literature>

20. Answer the following about the Ark Encounter exhibit.

1. Built in Williamstown, Kentucky, the Ark Encounter contains a replica of this person's Ark, which allowed his family and two of each animal to survive the Great Flood.

ANSWER: **Noah**

2. The Encounter is planning to expand by building a replica of this building, which was not finished in Genesis after God confused the workers' languages and dispersed them.

ANSWER: Tower of **Babel**

3. Carpenters of this sect were hired to build the Ark. Followers of this movement are closely related to the Mennonites, and their local churches' *Ordnung* sets rules for their lifestyle.

ANSWER: Old Order **Amish** [prompt on Anabaptist]

<Religion>