

2021 Stateline Junior Quiz Bowl

Game 4

Buzz-In Round

(1) Name the cell organelle that uses the electron transport chain to produce ATP, and is nicknamed the “powerhouse” of the cell.

ANSWER: mitochondria (accept mitochondrion)

(2) What Christian holiday is called Pascha in the Orthodox Church and is celebrated with egg hunts in the spring in America?

ANSWER: Easter Sunday

(3) Name the Shakespeare play in which Friar Laurence helps the title couple get married against the wishes of the feuding Montague and Capulet families.

ANSWER: Romeo and Juliet (accept The Tragedy of Romeo and Juliet)

(4) Name the U.S. state that is home to natural wonders like Biscayne Bay’s coral reefs, the Dry Tortugas near Key West, and Everglades National Park near Miami.

ANSWER: Florida

(5) What instrument was played by Charlie “Bird” Parker and John Coltrane in various jazz bands, and commonly appears in its alto, tenor, and baritone types in school wind bands?

ANSWER: saxophone (accept any type, such as alto saxophone)

(6) What shape is a conic section with eccentricity zero; can be described as an ellipse with one focus; and can be drawn by rotating a compass all the way around a center point?

ANSWER: circle

(7) What film series features Joan Cussack as the voice of Jessie, and stars Tom Hanks and Tim Allen as the voices of playthings Woody and Buzz Lightyear?

ANSWER: Toy Story

(8) Athena's shield, the Aegis, was decorated with the head of what Gorgon woman, who could turn people into stone with her gaze and who had snakes for hair?

ANSWER: Medusa

(9) What American president debated in Freeport, Illinois against Stephen Douglas and signed the Emancipation Proclamation while serving as president during the Civil War?

ANSWER: Abraham Lincoln

(10) What Paris landmark was built as the entrance to the 1889 World's Fair, and is a tall, latticed, iron tower?

ANSWER: Eiffel Tower (accept Tour Eiffel)

(11) Name the novel by Louis Sachar in which Hector Zeroni and Stanley Yelnats find Kissin' Kate Barlow's treasure while digging at Camp Green Lake correctional facility.

ANSWER: Holes

(12) Name the element whose diatomic gas makes up 20% of Earth's atmosphere, a nonmetal with atomic number 8 and symbol O.

ANSWER: oxygen (accept O before it is read)

(13) Name the American woman who helped free over 750 slaves in the Combahee River Raid, and who earned the nickname "Moses" by guiding slaves north through the Underground Railroad.

ANSWER: Harriet Tubman (accept Araminta Ross)

(14) What Vincent van Gogh painting was inspired by the landscape around his mental asylum, and shows Venus, the Milky Way, and the moon surrounded by swirling light?

ANSWER: The Starry Night (accept De sterrennacht)

(15) What planet has a day the length of 243 Earth days, is surrounded by clouds of sulfuric acid, and is named for the Roman goddess of love?

ANSWER: Venus

(16) J. Edgar Hoover was a long-serving director of what American intelligence agency, formerly known as the B.O.I., that oversees inquiries into domestic crimes?

ANSWER: FBI (or Federal Bureau of Investigation)

(17) Name the U.S. state whose city of Eden Prairie is part of the Twin Cities metropolitan area, just outside Minneapolis.

ANSWER: Minnesota

(18) Name the video game franchise in which players protect themselves from Balloon boy, Foxy, and Chica by managing the cameras and vent controls as a pizza parlor night guard.

ANSWER: Five Nights at Freddy's (accept FNaf [F-N-A-F or "fnaf"]; prompt on partial answers)

(19) In a novel by H.G. Wells, what quality does the fictional scientist Griffin give himself by altering his body's "refractive index" so that he cannot be seen?

ANSWER: invisible (accept word forms like invisibility; accept The Invisible Man)

(20) What mathematical term names a process of converting "x squared minus 1" into "x minus 1" and "x plus 1," and is the "F" in GCF?

ANSWER: factor (accept factorization; accept greatest common factor)

Volleyball Round

(1) What literary character becomes Head Auror after the events of *The Deathly Hallows*, and learns he is a wizard in a novel about *The Sorcerer's Stone*?

ANSWER: Harry James Potter (accept either underlined name)

(2) Felsic and mafic are the two types of what class of rock that form from the cooling of lava?

ANSWER: igneous rock

(3) The Lewis and Clark Expedition explored land that was acquired by the United States in what 1803 agreement with France?

ANSWER: Louisiana Purchase (accept descriptions of the US buying Louisiana from France)

(4) In what novel do Nick Chopper, Glinda, and a Scarecrow meet Dorothy after she is transported to a magical land with her dog, Toto?

ANSWER: The Wizard of Oz (accept The Wonderful Wizard of Oz)

(5) Cytokinesis follows what process in which a cell divides? Its sub-processes include anaphase, metaphase, and telophase.

ANSWER: mitosis (accept telophase until “anaphase” is read; do not accept or prompt on “meiosis”)

(6) What country contains the city of Kolkata near the Ganges River, and has its capital at New Delhi?

ANSWER: India (accept Republic of India; accept Bharat Ganarajya)

(7) Salvador Dalí's painting *The Persistence of Memory* depicts several of what objects, which seem to “melt” over a face, a box, and a tree branch?

ANSWER: clock (accept watch)

(8) The Joseon [jo-son] Dynasty ruled what Asian peninsula that is currently divided into North and South countries by a demilitarized zone?

ANSWER: Korea (accept Korean Peninsula; accept North and/or South Korea)

(9) What adjective describes trigonometric functions like cosine or cotangent, as well as any pair of angles that add up to ninety degrees?

ANSWER: complementary (accept word forms like complement; accept complementary functions, angles, etc.)

(10) Name the novel by F. Scott Fitzgerald whose title character lives near Nick Carraway and throws lavish parties to attract the attention of Daisy Buchanan.

ANSWER: The Great Gatsby

(11) What simple machine uses a string wrapped around a wheel and axle to lift heavy masses?

ANSWER: pulley

(12) Ian Fleming created what literary spy, who has been immortalized in novels and films like *Casino Royale* and *The Spy Who Loved Me*?

ANSWER: Bond (James Bond; accept 007)

(13) The foil, sabre, and épée are types of swords used in what sport that has been included in every modern Summer Olympics?

ANSWER: fencing (accept word forms like fence)

(14) What group of Greek gods has nine members, including Terpsichore [terp-SIH-koh-ree] and Erato, who represent dancing, love poetry, and other artistic activities?

ANSWER: muses

(15) Name the Pacific nation where the Cook Strait separates the South Island from the North Island and its capital, Wellington.

ANSWER: New Zealand

Lightning Rounds

The categories are . . .

1. Ancient Animals
2. World Explorers
3. Kidz Bop Lyrics

ANCIENT ANIMALS

Name the following long-extinct animals.

(1) A genus of plant-eating dinosaur named for having three horns.

ANSWER: triceratops

(2) Large, elephant-like animals that were larger than mastodons.

ANSWER: mammoths (accept wooly mammoths)

(3) Flying reptiles from the time of the dinosaurs.

ANSWER: pterodactyls (accept pterosaurs)

(4) Small, feathered theropods named for being “swift thieves.”

ANSWER: velociraptors (prompt on “raptor”)

(5) Long-necked “thunder lizard” whose relationship to Apatosaurus has been debated.

ANSWER: brontosaurus

(6) Ferocious large cat once native to the Americas named for their enormous front teeth.

ANSWER: smilodon (accept saber-toothed cat or saber-toothed tiger)

(7) Large canines that once pack-hunted in the Americas during the Pleistocene era.

ANSWER: dire wolf (prompt on “wolf” alone)

(8) Pleistocene-era mammal whose “ground” type could grow up to 20 feet long, much larger than its tree-dwelling modern relatives.

ANSWER: sloths (accept ground sloths; accept Megatherium)

(9) Common name of dinosaurs in the hadrosaurid family, named for their unusual skulls.

ANSWER: duck-bills (accept word forms like duck-billed dinosaurs)

(10) Order of aquatic reptiles from the Mesozoic with long necks and four fins.

ANSWER: plesiosaurs (accept Plesiosauria)

WORLD EXPLORERS

Name the following world explorers.

(1) Italian whose three ships reached the New World in 1492.

ANSWER: Christopher Columbus (accept Cristobal Colon)

(2) Leader who died in the Philippines before his men finished the first circumnavigation.

ANSWER: Ferdinand Magellan

(3) Englishman who was set adrift in a large Canadian bay now named for him.

ANSWER: Henry Hudson (accept Hudson Bay)

(4) Spaniard whose men conquered the Aztecs.

ANSWER: Hernan Cortés

(5) Portuguese explorer who discovered the sea route to India.

ANSWER: Vasco da Gama

(6) First European to reach Australia; he was killed while trying to kidnap the king of Hawaii.

ANSWER: James Cook

(7) Spaniard who governed Puerto Rico and didn't actually search for the Fountain of Youth.

ANSWER: Juan Ponce de Leon

(8) Frenchman who names a major lake in Vermont, New York, and Quebec.

ANSWER: Samuel de Champlain (accept Lake Champlain)

(9) Norwegian who flew over the North Pole in 1926 and reached the South Pole first in 1911.

ANSWER: Roald Amundsen

(10) Chinese Muslim admiral who led treasure fleets for the Ming Dynasty.

ANSWER: Zheng He

KIDZ BOP LYRICS

Given a strangely altered lyric found in a Kidz Bop cover and the artist of the original song, identify the song.

(1) “Shooting for the stars when you knew that I was willing.” By Panic! at the Disco.

ANSWER: **High Hopes**

(2) “I just took a DNA test, turns out I’m a hundred percent that kid.” By Lizzo.

ANSWER: **Truth Hurts**

(3) “Band-aids don’t fix, don’t you know?” By Taylor Swift.

ANSWER: **Bad Blood**

(4) “All of my heart is in [the title place].” By Camilla Cabello.

ANSWER: **Havana**

(5) “Rather be tied up with bows and not strings.” By Ariana Grande.

ANSWER: **7 Rings**

(6) “Don’t be his friend. / You know you’re gonna meet up with your friends in the morning.” By Dua Lipa.

ANSWER: **New Rules**

(7) “She says that she’s never afraid / just picture everybody smiling.” By Shawn Mendes.

ANSWER: **There’s Nothing Holdin’ Me Back**

(8) “I told him that I never really liked his friends / now he’s gone and he’s calling me to talk again.” By Halsey.

ANSWER: **Bad at Love**

(9) “Now, paybacks I’m having / and baby, I’m the baddest. / You dealin’ with a savage.” By Demi Lovato.

ANSWER: **Sorry Not Sorry**

(10) “Uh huh, show me how you dance now / come and make it worth my while.” By Fifth Harmony.

ANSWER: **Worth It**

Final Challenge

(1) Identify the European historical period at the end of the Middle Ages when the arts and sciences flourished, whose name means “rebirth.”

ANSWER: Renaissance

(2) In what novel by Rudyard Kipling do Bageera and Balloo, a panther and a bear, help raise the “man-cub” Mowgli in the wilderness in India?

ANSWER: The Jungle Book

(3) The Mercalli scale can be used to measure the intensity of what events, in which P and S waves spread out from a fault and cause the ground to shake?

ANSWER: earthquakes

(4) Name the Disney movie in which Dalia poses as her employer, Jasmine, and eventually marries a former genie whose lamp had been owned by the title “street rat.”

ANSWER: Aladdin

(5) Name the American state where a discovery at Sutter’s Mill inspired a massive 1849 gold rush.

ANSWER: California

(6) What mathematical operation is indicated by a capital letter sigma; is done to side lengths to calculate a shape’s perimeter; and is the inverse of subtraction?

ANSWER: addition (accept word forms like adding; accept summation)

(7) What imaginary line directly between the Tropic of Cancer and the Tropic of Capricorn marks zero degrees latitude, the middle of the Earth?

ANSWER: Earth’s Equator

(8) Name the Edgar Allan Poe short story in which Madeleine fights her way out of her tomb and scares her brother, Roderick, to death, ending the title family line.

ANSWER: The Fall of the House of Usher

(9) What war, during which the Ho Chi Minh trail was used to reinforce Communist soldiers, ended when the U.S. withdrew in 1975 after the fall of Saigon?

ANSWER: Vietnam War (accept Second Indochina War; accept Resistance War Against America; accept Chien tranh Viet Nam; accept Khang chien chong My; prompt on “Indochina War”)

(10) Nephrons are the functional units of what paired bodily organs that produce urine, and that can be aided by dialysis if they fail to filter blood?

ANSWER: kidneys

(11) “K numbers” are used to catalogue what Austrian composer’s works, such as *The Magic Flute* and the serenade *A Little Night Music*?

ANSWER: Wolfgang Amadeus Mozart

(12) What Norse goddess owns the mead-hall Folkvangr and the necklace Brisingamen, and represented love and beauty?

ANSWER: Freyja [FRAY-yah] (do not accept or prompt on “Freyr,” “Frigg,” or “Frigga”)

(13) What U.S. state contains Spirit Lake; the birthplace of Herbert Hoover; and the Effigy Mounds near Dubuque?

ANSWER: Iowa

(14) What language was used to write Dante’s *Inferno* and the *Decameron*, in which a group of young nobles flee from a plague in Florence?

ANSWER: Italian (accept Italiano)

(15) What particles are described by the Bohr model as having a proton-neutron nucleus orbited by electrons?

ANSWER: atoms

(16) What mythical creature, the son of Pasiphaë [pah-sih-fah-ay] and the Cretan Bull, did Ariadne help Theseus defeat in the Labyrinth?

ANSWER: minotaur

(17) What queen of England, who succeeded her half-sister, Mary I, ruled during the defeat of the Spanish Armada and was a patron of Shakespeare?

ANSWER: Elizabeth I (prompt on “Elizabeth”)

(18) What action titles an Auguste Rodin sculpture in which this action is performed by Paolo and Francesca da Rimini, a pair of lovers?

ANSWER: kissing (accept The Kiss; accept Le Baiser)

(19) What astronomical chunks of ice originate from the Oort [ohrt] Cloud and Kuiper [KYE-pur] Belt, and travel a regular path? They are often contrasted with meteors or asteroids.

ANSWER: comet

(20) In what 2017 Pixar film does the title shoemaker reverse her family's ban on music after her great-grandson, Miguel journeys to the Land of the Dead?

ANSWER: Coco