

2022 Stateline Junior

Game 9

Scholastic Community Outreach Program

Buzz-In Round

(1) What structures in the human body are produced by osteoblasts, have types called the tibia and femur, and make up the skeletal system?

ANSWER: bones

(2) Matsuo Basho was a master of what Japanese poetic form, which in English is typically written as lines of five, seven, and five syllables?

ANSWER: haiku

(3) What stadium was the site of Babe Ruth's "called shot," Steve Bartman's bobble, and hundreds of Harry Caray renditions of "Take Me Out to the Ballgame" at home games for the Chicago Cubs?

ANSWER: Wrigley Field

(4) With Sudan, what country contains Lake Nasser, which was created by the construction of the Aswan High Dam on this country's southern section of the Nile River?

ANSWER: Egypt (accept Arab Republic of Egypt; accept Misr or Masr; accept Jumhuriya Misr al-Arabiyah; accept Gomhoreyet Masr el-Arabeyya)

(5) What kind of objects in space were discovered when Giuseppi Piazzi found Ceres? Kirkwood gaps between these objects are found in their namesake "belt" between Mars and Jupiter?.

ANSWER: asteroids (accept planetoids; accept dwarf planet before "belt" is read; do not accept or prompt on "meteor" or "meteorite;" do not accept or prompt on "planet" alone)

(6) What religious practice uses koans [koh-ans] and positions like padma-sana to achieve sati, a form of mindful reflection, and is common in Buddhism?

ANSWER: meditation (accept word forms like meditate or meditating; prompt on “mindfulness” before it is read)

(7) What country has its judicial capital at Bloemfontein, its executive capital at Pretoria, its legislative capital at Cape Town, and its most populous city at Johannesburg?

ANSWER: South Africa (accept RSA or Republic of South Africa)

(8) What material did Auguste Rodin use to create *The Thinker* and *The Age of* this metal alloy, a combination of copper and tin?

ANSWER: bronze

(9) What mathematical term describes formulas written in “f of x” form, which provide exactly one output for every input, and that pass the vertical line test?

ANSWER: function

(10) What fictional character was voiced by Boris Karloff in a 1966 TV special in which, with the help of his dog Max, this character tricks little Cindy Lou Who and steals Christmas from Whoville?

ANSWER: The Grinch (accept How the Grinch Stole Christmas)

(11) What figure of speech is demonstrated by “all the world’s a stage?” This figure of speech compares two things directly, without using “like” or “as,” unlike a simile.

ANSWER: metaphor

(12) Which American president delivered the Fireside Chats over the radio to keep the public informed during the Great Depression?

ANSWER: Franklin Delano Roosevelt (both underlined parts required; accept FDR; prompt on “Roosevelt”)

(13) Name the dystopian novel in which O’Brien tortures Winston Smith for rebelling against Big Brother, a work by George Orwell.

ANSWER: Nineteen Eighty-Four

(14) What musical term, derived from the Italian for “strong,” is a dynamic marking that tells a musician to play loudly?

ANSWER: forte (accept fortissimo)

(15) What range’s namesake “Trail” stretches between Springer Mountain and Mount Katahdin, and leads hikers through the eastern United States?

ANSWER: Appalachians (accept Appalachian Mountains; accept Appalachian Trail)

(16) The modern form of what device was created when Alessandro Volta strung galvanic cells together in series? These devices’ modern types include “double A” and nine-volt.

ANSWER: battery (accept batteries; accept specific types, such as AA battery or nine-volt battery)

(17) What popular piano “bagatelle” by Beethoven begins with a delicate, high “E - E flat - E” pattern, and is named for its dedication to a female friend?

ANSWER: Für Elise (accept For Elise)

(18) What tsar is the namesake of the second-largest city in Russia, and was nicknamed “the Great” for his westernization efforts?

ANSWER: Peter (accept Peter the Great; accept Peter I; accept Pyotr or Pyotr Alexeyevich; accept Saint Petersburg)

(19) Name the Danish territory that contains America’s Thule Air Base. It is between the Canadian province of Nunavut and Iceland, and is the world’s largest island.

ANSWER: Greenland (accept Gronland; accept Kalaallit Nunaat)

(20) Which one of China’s Four Great Inventions can be created by pushing a magnetized needle into a cork, and is used for navigation because it points toward magnetic north?

ANSWER: compass (accept magnetic compass; prompt on “magnetometer”)

Volleyball Round

(21) “Lemony Snicket,” which replaced the name “Daniel Handler,” is what type of pseudonym used in place of a real name as the listed author of a book?

ANSWER: pen name (accept nom de plume)

(22) Ellipses, hyperbolas, and parabolas are all “sections” of what kind of three-dimensional shape, whose volume is equal to one-third times the area of the base times the height.

ANSWER: cone (accept conic section)

(23) After the Battle of Bladensburg, the British captured Washington, DC and burned the White House during what war?

ANSWER: 1812 (accept War of 1812)

(24) In the 2022 film adaptation of the *Uncharted* video game series, Nathan Drake was portrayed by what actor, who succeeded Andrew Garfield in 2016 on film as Spider-Man?

ANSWER: Tom Holland (accept Thomas Stanley Holland)

(25) Carcinization is a process by which animals have evolved to be more like what animals? These deca-pod crustaceans have a pair of claws and are shorter than lobsters.

ANSWER: crabs

(26) Stravinsky’s *The Rite of Spring* is a musical work that accompanies this type of performance, in which dancers often use special shoes to perform *en pointe*, or on the tips of their toes.

ANSWER: ballets

(27) Name the artist who rapped “can’t be that chick” on Bebe Rexha’s song “Baby I’m Jealous”, featured SZA [SIH-zuh] on “Kiss Me More”, and broke out in 2020 with the hit “Say So”.

ANSWER: Doja (accept Doja Cat; accept Amala Ratna Zandile Dlamini)

(28) Name the Shakespeare play in which the title Thane of Glamis and Cawdor murders Duncan to become the king of Scotland.

ANSWER: Macbeth (accept The Tragedy of Macbeth)

(29) Name the Spartan princess with a “face that launched a thousand ships,” whose kidnapping by Paris began the Trojan War.

ANSWER: Helen of Troy

(30) What satellite-based system operated by the U.S. Space Force allows users to access the Navstar satellite network to calculate their specific location on Earth?

ANSWER: G.P.S. (accept Global Positioning System; accept Navstar before it is read)

(31) The Molotov-Ribbentrop Pact resulted in the partition of what European country, which was invaded by Nazi Germany in 1939?

ANSWER: Poland (accept Republic of Poland; accept Second Polish Republic)

(32) Omar Khayyam’s *Rubaiyat* is a collection of poetry in what form, in which each stanza has four lines?

ANSWER: quatrains

(33) Sweat is able to cool the skin by what phase change process, in which the liquid water converts into a gas and leaves the body?

ANSWER: evaporation

(34) The Gobi Desert extends from China into what Asian country, which is surrounded by Russia and China and has capital Ulaanbaatar?

ANSWER: Mongolia (accept Mongol Uls; prompt on “Mongol”)

(35) Twelve ideas were initially approved by Congress in 1789 in what document, the first ten amendments to the U.S. Constitution?

ANSWER: Bill of Rights

Lightning Rounds

The categories are . . .

1. European Flags
2. Get an “A” in Science
3. American Foods

EUROPEAN FLAGS

Given a description of a European country's flag and some additional information, name the country.

(1) The blue-white-and-red *tricolour*, which flies over Paris.

ANSWER: France

(2) Vertical stripes of green, white, and red, which flies over Rome.

ANSWER: Italy

(3) Horizontal stripes of blue over yellow, which was flown in solidarity after it was invaded in 2022.

ANSWER: Ukraine

(4) The Union Jack, which also appears in the flag of Australia.

ANSWER: United Kingdom of Great Britain and Northern Ireland (accept UK; accept Great Britain due to historical use; do not accept England or other constituent countries)

(5) Horizontal stripes of red, white, and red, which flies over Vienna.

ANSWER: Austria

(6) Horizontal stripes of black, red, and gold, which flies over the Reichstag building.

ANSWER: Germany

(7) Red and gold horizontal bands, with a coat of arms featuring symbols of Castile and Aragon.

ANSWER: Spain

(8) Vertical stripes of green, white, and orange, symbolizing unity between Catholics and Protestants.

ANSWER: Ireland (do not accept "Northern Ireland")

(9) A red square with a white cross, one of only two square national flags in the world.

ANSWER: Switzerland

(10) The only other square flag, which includes the keys of Saint Peter and the Papal Tiara.

ANSWER: Vatican (accept Vatican City; accept Holy See)

GET AN "A" IN SCIENCE

Identify the following terms from science, each beginning with the letter "A".

(1) Basic unit of matter, including a nucleus.

ANSWER: atom

(2) Chemical with a pH below 7, contrasted with bases.

ANSWER: acid

(3) Measure of height, commonly used for cruising airplanes.

ANSWER: altitude

(4) The increase in speed of a moving object.

ANSWER: acceleration (accept word forms like accelerate)

(5) The study of planets, stars, and other objects in outer space.

ANSWER: astronomy

(6) Colorful displays in the sky, like the "Northern Lights."

ANSWER: aurora (accept aurora borealis; accept aurora australis)

(7) Colony insects in the order Formicidae [for-MIH-kih-day].

ANSWER: ants

(8) Temperature at which molecules stop moving, equal to negative two hundred seventy-three point one five Celsius [-273.15 Celsius].

ANSWER: absolute zero

(9) Phylum of segmented invertebrates that includes crabs and insects.

ANSWER: arthropods (accept arthropoda)

(10) Unicellular organism that can move using pseudopods.

ANSWER: amoeba

AMERICAN FOODS

Identify regional delicacies from around America, given their best-known source and a description of the food.

(1) From across America, a sausage served in a bun with "Coney Island" and "Chicago" variants.

ANSWER: **hot dogs** (accept **Coney dogs**; accept **Chicago dogs**)

(2) From Illinois, a pan-baked, thick-crust food made by Lou Malnati's and Giordano's.

ANSWER: **deep-dish** pizza (accept **Chicago-style pizza**; prompt on "pizza")

(3) From Pennsylvania, a shaved beef sandwich usually served with onions and Cheez Whiz.

ANSWER: Philly **cheese steak** (prompt on partial answers; accept Philadelphia instead of Philly)

(4) First made in Minnesota, a brand of canned ham loaf made by Hormel.

ANSWER: **SPAM**

(5) From New York, a grilled sandwich made with corned beef and sauerkraut.

ANSWER: **Reuben** sandwich

(6) A meringue-covered pie made with condensed milk and a citrus fruit grown in a Florida archipelago.

ANSWER: **Key lime** pie

(7) From Massachusetts, a sandwich containing peanut butter and marshmallow creme.

ANSWER: **fluffernutters**

(8) From New Orleans's Café du Monde, a deep-fried piece of pastry dough covered in powdered sugar.

ANSWER: **beignets** ([ben-YAYs], but be lenient with pronunciation)

(9) From Colorado, the testicles of bulls, often served deep-fried.

ANSWER: **Rocky Mountain oysters** (accept **prairie oysters**; prompt on partial answers)

(10) From Pennsylvania, a meat loaf made of leftover pig parts.

ANSWER: **scrapple**

Final Challenge

(36) The trace is the sum of the entries along the main diagonal of what type of mathematical object, a rectangular array that consists of numbers listed in rows and columns?

ANSWER: matrix (accept matrices)

(37) Name the Edgar Allan Poe short story in which Montresor tricks Fortunato into a cellar with the promise of the title wine, and then bricks him into a wall.

ANSWER: The Cask of Amontillado

(38) What country's Ryugyong Hotel has been under construction since 1987, when President Kim Il-Sung ordered it to be built in Pyongyang?

ANSWER: North Korea (prompt on "Korea;" do not accept or prompt on "South Korea")

(39) Name the meso-american civilization whose Hero Twins appear in the *Popol Vuh*, and who built a pyramidal temple in Chichen Itza.

ANSWER: Maya (accept Mayan civilization)

(40) Name the reproductive structures produced by ferns, which are released from the gills of mushrooms and other fungi.

ANSWER: spores

(41) Edward Pakenham died at what January 8, 1815 battle, an American victory over the British that actually took place 18 days after the Treaty of Ghent ended the War of 1812?

ANSWER: New Orleans (accept Battle of New Orleans)

(42) What international organization replaced the disgraced Sepp Blatter with Gianni Infantino in 2016, amid controversy over Russia and Qatar being awarded hosting privileges for the World Cup?

ANSWER: **FIFA** (accept **Fédération Internationale de Football Association**; accept **International Federation of Association Football**)

(43) What genre of painting includes John Constable's *The Haywain* and El Greco's *View of Toledo*? These paintings show a wide view of a scene of nature.

ANSWER: **landscape**

(44) What Asian city's 2014 Umbrella Movement protested the restriction of civil liberties in this special administrative region of China?

ANSWER: **Hong Kong**

(45) Name the Shakespeare play in which Iago provokes the title soldier from Venice to murder by making him jealous over his wife, Desdemona.

ANSWER: **Othello** (accept The Tragedy of **Othello**, the Moor of Venice)

(46) Name the U.S. state that contains the Grand Teton National Park and most of Yellowstone National Park, and whose capital is Cheyenne.

ANSWER: **Wyoming**

(47) Name the property, measured in coulombs [**KOO-loms**], that is moved by electric current. Electrons and protons have negative and positive values for this property.

ANSWER: **charge** (accept electric **charge**)

(48) Nolan Bushnell co-founded both Chuck E. Cheese and what classic video game company, whose "Twenty-Six Hundred" console had games like *Pac-Man*, *Space Invaders*, and the horrible flop *E.T.*?

ANSWER: **Atari**

(49) What class of animal metamorphoses from aquatic young to land-dwelling adults, and includes newts and frogs?

ANSWER: amphibians (accept Amphibia)

(50) Portugal's António Guterres is the Secretary General of what organization with 195 member countries, which was established in 1945?

ANSWER: United Nations (accept UN)

(51) What musical work, originally titled "Quasi una fantasia," features slow arpeggios with the sustain pedal constantly depressed, giving this Beethoven piano sonata a dreamy, night-time feel?

ANSWER: Moonlight Sonata (accept Beethoven's Piano Sonata Number 14; accept Beethoven's Opus 27, Number 2)

(52) What waterway, formerly called the Zaire River, is the second-longest river in Africa, and is the namesake of two countries whose capitals are Kinshasa and Brazzaville?

ANSWER: Congo River

(53) What object in our solar system is orbited by Triton, has storms called "Scooter" and the "Great Dark Spot," and is the eighth planet from the sun?

ANSWER: Neptune

(54) What statistic does not exist for the set "1, 2, 3, 4" because no number comes up the most times, unlike the mean and median which always exist?

ANSWER: mode

(55) How many lines are in each poem of the *Rubaiyat*, a Persian collection of quatrains?

ANSWER: four (accept quatrains before it is read)