

Stateline Juniors 2025

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Brad Fischer · Jamie Fischer · Kristin A. Strey

Round 7

Buzz-In Round

- 1) An emulsion is a colloid in which a sample of what phase of matter is dispersed in another sample of it? This phase of matter has a definite volume but not a definite shape, and it can freeze to become a solid.

Answer: liquids

- 2) What place contained the Elysian Fields and Tartarus, was reached by crossing the river Styx, and was the Greek afterlife that shared its name with the god who ruled it?

Answer: Hades

- 3) What insects, whose *Anopheles* genus is capable of spreading the *Plasmodium* parasite that causes malaria, are born from eggs laid in marshes and include blood-sucking females?

Answer: mosquitoes

- 4) What city, which served from 1808 to 1822 as the capital of the Portuguese Empire, is overlooked by the Christ the Redeemer statue and trails only São Paulo as the most populous city in Brazil?

Answer: **Rio de Janeiro**

- 5) What yet-to-be-released product, which was codenamed "Ounce" in files hacked from Game Freak in 2024, is set to release in 2025 with backwards compatibility, allowing players to play older games like *Legend of Zelda: Tears of the Kingdom*?

Answer: Nintendo **Switch 2** (do not accept or prompt on "Switch" alone)

- 6) At what Revolutionary War battle did William Prescott build a redoubt that took three British waves to capture, after which Breed's Hill in Boston was taken?

Answer: Battle of **Bunker Hill**

- 7) What name is shared by the Italian count to whom Juliet is betrothed in *Romeo and Juliet* and one of the title places in *A Tale of Two Cities*, in which London is compared to this French capital?

Answer: **Paris** (accept Count **Paris**; accept **Paris**, France)

- 8) What day of the week appears in the title of a Georges Seurat painting of an *Afternoon on the Island of La Grande Jatte* and an Edward Hopper painting that shows the quiet of this first day of the week?

Answer: **Sunday** (accept A **Sunday Afternoon on the Island of La Grande Jatte**; accept Un **dimanche** après-midi à l'Île de la Grande Jatte; accept **Early Sunday Morning**)

- 9) What kind of poetic stanza makes up Omar Khayyam's *Rubaiyat*, a set of poems that are often translated into English with an A·A·B·A rhyme scheme and four lines?

Answer: **quatrain** (accept **rubaiyat** before it is read; accept descriptions of "**four-line** poems" before "four" is read)

- 10) What city, found on the south shore of Lake Pontchartrain, is home to Jackson Square and Bourbon Street in the French Quarter and the most people of any city in Louisiana?

Answer: **New Orleans**

- 11) What natural formations are studied by speleologists, is a common underground feature of karst topography, and can contain limestone stalactites and stalagmites?

Answer: **cave** (accept **cavern**)

- 12) What platform, whose CEO noted "I'm Singaporean" in a 2024 hearing, is a ByteDance owned short-form video sharing app based in Beijing, China?

Answer: **TikTok** (accept **Douyin**)

- 13) The Meridian Gate and Gate of Divine Might sit on opposite sides of what palace complex, near Tiananmen Square, that was built during the Ming Dynasty for the Emperor of China?

Answer: **Forbidden** City (accept **Zijincheng**)

14) What musical term, which describes the voice range of the Commendatore in the opera *Don Giovanni*, is the lowest masculine vocal range, singing lower than a tenor or baritone?

Answer: **bass**

15) What adjective describes the square root of any non-square number, or any number that cannot be written as a fraction?

Answer: **irrational** numbers

16) What section of the *Divine Comedy* describes Count Ugolino and the doomed lovers Paolo and Francesca among the sinners in a Renaissance Catholic Hell?

Answer: **Inferno**

17) What captain, who viewed the 1769 transit of Venus from Tahiti on his first major voyage aboard the HMS Endeavour, circumnavigated New Zealand and was killed in Hawaii?

Answer: James **Cook**

18) What color titles a Charlotte Perkins Gilman short story in which a young woman locked in a room becomes convinced that another woman is trapped in wallpaper of this color?

Answer: **yellow** (accept The **Yellow Wallpaper**)

19) What country annexed the Portuguese territory of Goa in 1961, making it a state alongside Karnataka, Gujarat, and Uttar Pradesh in a country governed from New Delhi?

Answer: **India** (accept Republic of **India**; accept **Bharat** Ganrajya)

20) What colloidal weather phenomenon can occur on the marine layer in high humidity, resembles low-lying stratus clouds, and is most commonly encountered in the Midwest during the early morning as a dense mist?

Answer: **fog**

Volleyball Round

- 1) A capital sigma is used to shorten formulas involving what arithmetic operation, the inverse of subtraction?

Answer: **summation** (accept **adding**)

- 2) What legendary English ruler's kingdom is the setting of a Mark Twain novel about a time travelling "Connecticut Yankee" who uses 19th-century technology to usurp Merlin as this king's wizard at Camelot?

Answer: King **Arthur** (accept **Arthur** Pendragon; accept A **Connecticut Yankee in King Arthur's Court**)

- 3) Hans Holbein painted numerous portraits of what English king, as well as an overly-flattering painting of Anne of Cleves that convinced him to make her the fourth of this king's six wives?

Answer: **Henry VIII**

- 4) In the alternate *Flashpoint* timeline, Thomas - instead of his son, Bruce Wayne - takes on what title to fight Killer Croc, Penguin, and The Joker?

Answer: **Batman**

- 5) Name the literary character who claims it is "better to reign in Hell than serve in Heaven" after rebelling against God in John Milton's *Paradise Lost*.

Answer: **Satan** (accept **Lucifer**; prompt on "the Devil" by asking "what is his name in *Paradise Lost*?")

- 6) What kind of lipid has a "good" high-density type and a "bad" low-density type that can cause atherosclerosis by building up in the arteries and hardening them?

Answer: **cholesterol** (accept high density and/or low density **lipoproteins**)

- 7) What mythical creatures guided the dead slain in battle to either Folkvangr or Valhalla, and included "shield-maidens" like Brunhilde?

Answer: **valkyrie** (accept **valkyries**; accept **valkyrja**)

- 8) What musical note, whose minor key has two sharps and was used for a famous J.S. Bach mass, is the only note that is made flat in a key signature with one flat?

Answer: **B** (accept **B** minor; accept **B** flat; do not accept "B flat minor")

- 9) Armani White's most-streamed song is titled for what artist, who sang "What Was I Made For?" in the *Barbie* Movie, and whose album *HIT ME HARD AND SOFT* features "Birds of a Feather?"

Answer: Billie **Eilish** (accept Billie Eilish Pirate Baird **O'Connell**)

- 10) John Macdonald was the first holder of what position, the head of government of a Commonwealth country, whose other holders have included Pierre and Justin Trudeau?

Answer: **Prime Minister of Canada** (accept equivalents like **Canadian PM**)

11) What element found directly below carbon on the periodic table is a semiconductor used to make integrated electronic circuits and has the chemical symbol S·i?

Answer: **silicon** (accept **Si** before it is read)

12) What distance titles an early science fiction novel by Jules Verne, in which this term describes the length of the journey of Captain Nemo's *Nautilus* submarine?

Answer: **twenty thousand leagues** (accept **Twenty Thousand Leagues Under the Sea**; accept **Twenty Thousand Leagues Under the Seas**; accept **Vingt mille lieues sous les mers**: Tour du monde sous-marin; prompt on "league(s)" by asking "how many leagues, according to the title of the book?")

13) The Great Western Woodlands is a temperate subregion of what remote, mostly desert region of Australia?

Answer: **outback**

14) What U.S. president demanded "We must either love each other, or we must die" in the 1964 "Daisy" ad during his campaign to stay in office after succeeding John F. Kennedy?

Answer: **Lyndon Baines Johnson** (accept **LBJ**; prompt on "Johnson" alone)

15) What term is used to describe stars, such as Rigel and Betelgeuse in Orion, that are brighter and much larger than main sequence stars like our Sun?

Answer: **giant** (accept **supergiant**)

Lightning Round

The categories are...

- 1) Monarchies
- 2) Musical Instruments
- 3) 2024 Olympic Sports

Monarchies

Given a ruling monarch, maybe another, and maybe some extra clues, name the kingdom, empire, country, etc., that they ruled.

- 1) Tsars Nicholas I and Nicholas II, of the Romanovs.

Answer: **Russia** (do not accept Soviet Union)

- 2) Elizabeth II and Charles III from the House of Windsor.

Answer: **England** (accept **United Kingdom** of Great Britain and Northern Ireland; accept **UK**; accept Great **Britain**)

- 3) Kaisers Wilhelm I and Wilhelm II.

Answer: **Germany**

- 4) Louis the Spider King, Saint Louis, and many other Louis.

Answer: **France**

- 5) Joao I, whose House of Aviz was based in Lisbon.

Answer: **Portugal**

- 6) Queen Christina, who built the power of Stockholm.

Answer: **Sweden**

- 7) Victor Emmanuel II, who was King of Sardinia before unifying this country.

Answer: **Italy**

- 8) Franz Joseph I; a dual monarchy that dissolved after World War I.

Answer: **Austria-Hungary**

- 9) Cetshwayo and Shaka, in southern Africa.

Answer: **Zulu** Empire (accept Kwa**Zulu**)

- 10) Constantine II, who was replaced by a junta, then by a Hellenic Republic in 1973.

Answer: **Greece**

Musical Instruments

Given a description from famous classical music, name the instrument being described.

- 1) Brassy woodwind with alto and tenor types in a wind band.

Answer: **saxophone**

- 2) Most common string instrument in an orchestra, smaller than a viola.

Answer: **violin**

- 3) Military weapon played in the "1812 Overture."

Answer: **cannons**

- 4) Brass instrument with a slide, once called a "sackbut."

Answer: **trombone**

- 5) Black single-reed woodwind that plays a glissando to open "Rhapsody in Blue."

Answer: **clarinet**

- 6) Large, suspended Asian cymbal that crashes at the start of "A Love Supreme."

Answer: **gong** (accept **tam-tam**)

- 7) The high-pitched small flute in "Stars and Stripes Forever."

Answer: **piccolo**

- 8) Special tuba invented by the composer of "Stars and Stripes Forever."

Answer: **Sousaphone**

- 9) Large, low double-reed instrument that plays awkwardly high in "The Rite of Spring."

Answer: **bassoon**

- 10) Keyboard with metal plates heard in the "Dance of the Sugar Plum Fairy."

Answer: **celesta**

2024 Olympic Sports

Given a description of some medalist performances from the 2024 Summer Olympics, name the sport.

- 1) Simone Biles won three gold medals, including vault.

Answer: **gymnastics** (accept artistic **gymnastics**)

- 2) Steph Curry's three-pointers put away the French.

Answer: **basketball** (do not accept 3-on-3 basketball)

- 3) Lydia Ko won gold at 10 under par.

Answer: **golf**

- 4) The USWNT beat Brazil one-nil, with Mallory Swanson scoring the goal.

Answer: **soccer** (accept association **football**)

- 5) Katie Ledecky set an Olympic record in the freestyle stroke.

Answer: **swimming**

- 6) Sara Errani and Jasmine Paolini won gold in women's doubles.

Answer: **tennis**

- 7) France swept the podium in Men's BMX at the Velodrome.

Answer: **cycling** (accept anything to do with a **bicycle**)

- 8) Lee Kiefer and Vivian Kong won gold with the foil and épée, respectively.

Answer: **fencing**

- 9) Turkey's Yusuf Dikeç went viral for wearing glasses and a t-shirt while aiming.

Answer: **shooting** (accept **air pistol**)

- 10) Ami won gold while Raygun earned zero votes for hopping like a kangaroo.

Answer: **breaking** (accept **breakdancing**; prompt on "dancing")

Final Challenge

- 1) What ruler of Leon and Castile pushed for the Alhambra Decree, which expelled Jews from Spain and was jointly signed by her husband, Ferdinand of Aragon?

Answer: **Isabella** of Castile (accept **Isabella I**)

- 2) What team, whose executive Jed Hoyer has been criticized for weak free agent spending, traded *for* Kyle Tucker and traded *away* Cody Bellinger in the 2024 offseason, revamping an outfield whose walls are covered in ivy at Wrigley Field?

Answer: Chicago **Cubs** (prompt on "Chicago")

- 3) What type of angle, the smallest angle whose cosine is zero, cannot exist in an obtuse or acute triangle because its measurement is exactly 90 degrees?

Answer: **right** angle

- 4) What tourist attraction, which is visited by the *Maid of the Mist* and other sightseeing boats, is found on a gorge on the border of Ontario and New York?

Answer: **Niagara Falls**

- 5) What natural features have "transform" and "strike-slip" types where pieces of the earth's crust move against each other to create earthquakes?

Answer: **fault** line

- 6) What story collection includes Rocs attacking Sinbad the Sailor, is narrated by Scheherazade, and includes a genie summoned by Aladdin?

Answer: (The) One **Thousand and One Nights** (accept The **Arabian Nights**; accept (The) One **Thousand and One Arabian Nights**; accept **Alf Laylah wa-Laylah**)

- 7) What man, whose original tomb suffered mold problems and was replaced in 1930 with a marble mausoleum in Red Square, became the new namesake of Saint Petersburg after he died in 1924?

Answer: Vladimir **Lenin** (accept Vladimir Ilyich **Ulyanov**; accept **Leningrad**)

- 8) What color describes a set of paintings by Francisco Goya, including *Saturn Devouring His Son*, that have depressing subjects painted in this darkest pigment?

Answer: **black** (accept **Black** Paintings; accept Pinturas **negras**)

- 9) What last name was shared by the American author of *Save Me the Waltz*, *Zelda*, and her husband, the author of "Bernice Bobs Her Hair" and *The Great Gatsby*?

Answer: **Fitzgerald** (accept F(rancis) Scott (Key) **Fitzgerald** and/or Zelda Sayre **Fitzgerald**)

10) What substance is worshiped as "atar" in namesake Zoroastrian temples, where priests wear face masks and use pieces of wood to allow this to keep burning?

Answer: **fire** (accept **flames**; accept **Atash**; accept **athra**; accept **atarsh**)

11) What type of material includes PVC and polyurethane, is a synthetic material made of polymers, cannot biodegrade, and can be used to make shopping bags and water bottles?

Answer: **plastics**

12) What president, who opposed banker Nicholas Biddle, signed the economically-devastating Specie Circular and a law called a crime against humanity, the Indian Removal Act of 1830?

Answer: Andrew **Jackson**

13) Charles Perrault credited what fictional character with the authorship of a set of children's stories and nursery rhymes supposedly told by this matronly bird?

Answer: **Mother Goose** (accept **Mère l'Oye**; accept The **Tales of Mother Goose**; accept Les Contes de ma **Mère l'Oye**)

14) What country's space exploration includes the incorporation of the Mir-2 into the International Space Station, spaceflights by cosmonauts like Yuri Gagarin and the dog Laika, and the Sputnik satellite?

Answer: **Russia** (accept **Soviet Union**; accept **USSR**; accept **Russian Federation**; accept **Rossiya** or **Rossiyskaya Federatsiya**; accept **Union of Soviet Socialist Republics**; accept **CCCP**; accept **Soyuz Sovyetskikh Sotsialisticheskikh Respublik**)

15) What fat-soluble vitamin, found in leafy green vegetables, gets its name from the Danish term for "coagulation?"

Answer: Vitamin **K**

16) What river, which is dammed by the Parker, Glen Canyon, and Hoover Dams, carved out the Grand Canyon as it flowed through Arizona from its namesake state?

Answer: **Colorado** River

17) What instrument, played with puffed cheeks by Dizzy Gillespie and Louis Armstrong, is a high-pitched brass instrument with three valves?

Answer: **trumpet**

18) What British poet wrote about a creature "not born for death" and said that "beauty is truth, truth beauty" in his odes "to a Nightingale" and "on a Grecian Urn?"

Answer: John **Keats**

19) What shape, which has a volume equal to four-thirds pi times its radius cubed, is the three-dimensional analogue of a two-dimensional circle?

Answer: **sphere**

20) What World War II battle included the sinking of the *Akagi* and three other Japanese carriers, resulted in the loss of the USS *Yorktown*, and is memorialized as the name of a south Chicago airport?

Answer: Battle of **Midway**