

2022 Stateline Junior

Game 4

Scholastic Community Outreach Program

Buzz-In Round

(1) In a Longfellow poem, what character watches a church tower for one lamp “if by land and two if by sea” before going on a “midnight ride” to warn the American colonists that the British were coming?

ANSWER: Paul Revere

(2) The “spirit” form of what laboratory device uses an alcohol solution in a glass tube, and is a modernized version of a mercury-based one invented by Daniel Gabriel Fahrenheit to measure temperature?

ANSWER: thermometer

(3) *don't smile at me* was the debut release by what artist, whose second album includes the singles “Happier Than Ever” and “Therefore I Am”, and whose breakout hit was 2019’s “Bad Guy?”

ANSWER: Billie Eilish (accept Billie Eilish Pirate Baird O’Connell)

(4) Name the Portuguese explorer who died in the Philippines while leading the first successful circumnavigation of the Earth.

ANSWER: Ferdinand Magellan (accept Fernão de Magalhães)

(5) What part of speech is “subordinating” when it relates a dependent clause to an independent clause, and is exemplified by the words “but” and “and,” which connect parts of a sentence?

ANSWER: conjunction (accept subordinating conjunction; accept other specific types of conjunction like coordinating conjunction)

(6) What substance has “rhyolitic” [RYE-oh-lih-tik] and “basaltic” types that build up under volcanoes until it emerges as lava?

ANSWER: magma (accept lava before “under” is read)

(7) What painting depicts the wife of Francesco del Gioconda without eyelashes or brows, smiling out at the viewer? It was created by Leonardo da Vinci.

ANSWER: Mona Lisa (accept La Joconde)

(8) Name the country where the palaces of Fontainebleau and Versailles are near the River Seine, which also runs through the city of Paris.

ANSWER: France (accept French Republic; accept La France; accept République française)

(9) The Olympian gods gave the titan Epimetheus the gift of what first woman, who released all of the evils of the world from a jar or box?

ANSWER: Pandora

(10) What number is the base of the binary number system, the smallest prime, and the smallest positive even number?

ANSWER: two

(11) Name the German-Austrian composer who wrote the *Waldstein* and *Moonlight* sonatas for piano while going deaf.

ANSWER: Ludwig van Beethoven

(12) What U.S. state’s Penobscot and Kennebec rivers are home to the city of Bangor and this state’s capital, Augusta?

ANSWER: Maine

(13) Name the animals from the order Lepidoptera that form a chrysalis in their pupal stage, and that are usually more colorful than moths.

ANSWER: **butterfly** (accept **moth** until “chrysalis” is read; prompt on “moth” after “chrysalis” is read and before “colorful” is read, since butterflies evolved from moths and some moths do form chrysalises)

(14) Name the Charles Dickens story in which Mr Fezziwig, a London graveyard, and the Cratchett home are visited by three ghosts and Ebenezer Scrooge, who learns the importance of a winter holiday.

ANSWER: A **Christmas Carol**

(15) *Journeys* and *Master Journeys* are the two most recent seasons of what animé series, whose characters include Professor Cerise, Chloe, Goh, and Ash Ketchum?

ANSWER: **Pokémon** (accept **Pokémon** Journeys: The Series)

(16) What political family includes daughter Chelsea, former New York Senator & Secretary of State Hillary, and former President Bill?

ANSWER: **Clinton** family

(17) What Norse god hung on the World Tree for nine days, traded his eye for wisdom, and was the father of Thor?

ANSWER: **Odin** (accept **Wotan**)

(18) Above the Curie temperature, what objects lose their namesake “fields,” which have north and south poles that attract each other?

ANSWER: **magnet**

(19) Name the body of water that connects through the Straits of Mackinac [MACK-ih-naw] to Lake Huron, and whose shores include the cities of Milwaukee and Chicago.

ANSWER: **Michigan** (accept Lake **Michigan**; accept Lake **Huron** before it is read)

(20) Name the literary character, created by H.A. Rey, who is the subject of a PBS series in which he makes friends with the cat Gnocchi and the dog Hundley while living with the Man with the Yellow Hat.

ANSWER: Curious George

Volleyball Round

(21) In March 2022, Rosario Dawson was surprised to be filming scenes with Mark Hamill for the show *Ahsoka*, an upcoming entry in what science fiction media franchise?

ANSWER: Star Wars (accept Star Wars: Ahsoka)

(22) *The Diary of a Young Girl* was the posthumously published account of what Jewish girl's time in hiding from the Nazis in a secret annex in the Netherlands?

ANSWER: Anne Frank (accept Annelies Marie Frank)

(23) What Midwestern city was home to the Jefferson National Expansion Memorial, until it was renamed Gateway Arch National Park in 2018?

ANSWER: Saint Louis

(24) Stoma, which allow exchange of carbon dioxide and oxygen, are found on the undersides of what plant part, which are usually shed by deciduous trees each year?

ANSWER: leaf (accept leaves)

(25) Imaginary numbers are used to express the square roots of what kind of numbers? These numbers' sign is changed by the absolute value, since these numbers are less than zero.

ANSWER: negative (accept negative numbers; accept negative integers)

(26) What title was held by a dynasty of emperors from the Romanov family, the last of whom, Nicholas II [second], lost power in 1917?

ANSWER: tsar (accept czar; accept tsar of Russia or Russian tsar)

(27) The continental shelf gives way to the abyssal plain underneath what large bodies of water, of which the Earth has five, including the Southern, Arctic, and Indian?

ANSWER: ocean

(28) Who sang “I had no time to choose / what I chose to do” in “Easy on Me,” the first hit single from her 2021 album *30*?

ANSWER: Adele (accept Adele Laurie Blue Adkins)

(29) In a novel by Bram Stoker, Abraham Van Helsing battles this fictional European count who drinks the blood of Lucy Westenra.

ANSWER: Dracula (accept Count Dracula)

(30) Name the woman who defied driver James Blake’s order to move seats, sparking the NAACP to launch the Montgomery Bus Boycott in 1955.

ANSWER: Rosa Parks (accept Rosa McCauley)

(31) Ben Franklin, describing a series of early capacitors called Leyden jars, coined what term for an electrochemical cell that can be used as a power source?

ANSWER: battery (accept electric battery; accept electrostatic battery)

(32) Which constitutional amendment sets out the rights of citizens accused of crimes, and guarantees that a person cannot be forced to testify against themselves?

ANSWER: Fifth (accept Fifth Amendment; accept Amendment Five)

(33) The first three stanzas of a Shakespearean sonnet are what kind of poetic form, named for having four lines?

ANSWER: quatrains

(34) In Greek myth, what city's walls were built by Poseidon and Apollo under the direction of King Laomedon? This city was legendarily defeated by Greece with the help of a wooden horse full of soldiers.

ANSWER: Troy (accept Trojan horse; Ilium)

(35) A Mozart opera named for one of which instrument includes the characters Sorastro and the Queen of the Night?

ANSWER: flute (accept The Magic Flute)

Lightning Rounds

The categories are ...

1. Bird Biology
2. Animals in Literature
3. Norse Gods

BIRD BIOLOGY

Name some things related to the biology of birds.

(1) Most birds have these forelimbs, which help some birds fly.

ANSWER: wing

(2) Baby birds incubate in these hard-shelled cells.

ANSWER: egg

(3) Birds' skulls include this bony projection, used for feeding and preening.

ANSWER: beak (accept bill)

(4) Baby birds hatch using a temporary one of these hard mouth structures.

ANSWER: tooth (accept teeth; accept eggtooth or egg teeth)

(5) Remiges, rectrices, and down are types of these epidermal structures.

ANSWER: feather (accept plume or plumage)

(6) Passerine birds have a backwards-facing one of these digits.

ANSWER: toe

(7) Arctic terns perform this annual action between the arctic and antarctic.

ANSWER: migration (prompt on "flying")

(8) Birds' genders are determined by W and Z types of these DNA structures.

ANSWER: chromosome (accept sex chromosomes)

(9) This muscular part of a bird's stomach that grinds down food.

ANSWER: gizzard

(10) Birds use their syrinx, a structure in the trachea, to perform this action.

ANSWER: sing (accept descriptions like making sounds or communicate)

ANIMALS IN LITERATURE

Name some animals or types of animals that appear in works of literature.

(1) In the works of A.A. Milne, a cuddly teddy bear who lives in the Hundred Acre Woods.

ANSWER: Winnie-the-**Pooh** (accept Winnie-ther-**Pooh**; accept **Pooh** Bear; accept **Edward** Bear)

(2) In *The Wizard of Oz*, a "cowardly" character seeking his courage.

ANSWER: Cowardly **Lion**

(3) In *A Song of Ice and Fire*, the kind of animal that Daenerys hatches and raises.

ANSWER: **dragons**

(4) In a story by Beatrix Potter, the rabbit brother of Flopsy, Mopsy, and Cottontail.

ANSWER: **Peter** Rabbit

(5) In *The Jungle Book*, the kind of animals that raise Mowgli as part of their pack.

ANSWER: **wolf** (accept **wolves**)

(6) Don Quixote's steed, Rocinante, is an old and sick one of this kind of animal.

ANSWER: **horses**

(7) In *The Call of the Wild*, this kidnapped dog eventually joins an Alaskan wolf pack.

ANSWER: **Buck**

(8) The title animal of a story by Edgar Allan Poe, an animal named Pluto who terrorizes the man who kills him.

ANSWER: The **Black Cat**

(9) In a story by Mark Twain, the kind of "Celebrated, Jumping" animal that loses a jumping contest.

ANSWER: **frogs**

(10) In *The Wind in the Willows*, the mischievous character that Mole and Rat try to cure of his reckless driving.

ANSWER: **Toad** of Toad Hall

NORSE GODS

Name the following gods, goddesses, and legendary figures who are important to Norse myth.

(1) God of thunder, who wielded a hammer.

ANSWER: Thor (accept Donar)

(2) All-father who gave an eye for wisdom.

ANSWER: Odin (accept Wotann)

(3) Trickster god sometimes described as a frost giant.

ANSWER: Loki

(4) Golden-haired goddess of love and magic.

ANSWER: Freyja [fray-yah] (do not accept or prompt on “Frey,” “Freyr,” “Frigg,” or “Frigga,” who are different figures in Norse myth)

(5) Giant wolf who was the son of the trickster god.

ANSWER: Fenrir (accept Fenris Wolf)

(6) Enormous snake that encircled the world.

ANSWER: Jörmungandr [yohr-mun-gon-dur] (accept World Serpent; accept Midgard Serpent)

(7) God of war whose hand was bitten off by a giant wolf.

ANSWER: Tyr

(8) Guard of the rainbow bridge Bifrost.

ANSWER: Heimdall (accept Heimdallr)

(9) Shield maidens, such as Brünhilde, who carried off warriors after death.

ANSWER: Valkyrie (accept Valkyries)

(10) Son of Frigg killed by his brother, Hodr, on the advice of the trickster god.

ANSWER: Baldr

Final Challenge

(36) The measurement of what physical quantity is described in the Joule-Thompson effect as decreasing for an expanding volume of gas? Its S-I unit is the Kelvin, but it is more commonly measured in Celsius.

ANSWER: temperature (accept heat or descriptions of “how hot something is”)

(37) What English monarch’s children carried the gene for hemophilia into numerous European royal families after this queen’s nineteenth-century reign?

ANSWER: Victoria (accept Alexandria Victoria)

(38) What kind of natural object is the home of the mythical creatures Nidhogg and Ratatosk? In Norse myth, Yggdrasil is one of these things that stretches between the nine realms with its roots and branches.

ANSWER: tree (accept ash tree; accept World Tree)

(39) Name the video game franchise created by Scott Coffin whose December 2021 installation, *Security Breach*, includes the characters Gregory and Glam-rock Chica.

ANSWER: Five Nights at Freddy’s (accept FNaF [“fnaff”])

(40) Name the European country that owns the islands of Rhodes, Lesbos, and Crete, which are governed from the city of Athens.

ANSWER: Greece (accept Elláda; accept Hellenic Republic or Ellinikí Dimokratia)

(41) What substance can be reduced in the human body by statins; has HDL and LDL types; and can cause heart disease when it accumulates as fatty plaques in the arteries?

ANSWER: cholesterol (accept high density and/or low density lipoproteins; prompt on “lipids”)

(42) What kind of animal “names the sky his own” in a Maya Angelou poem that says “I know why the caged [this animal] sings?”

ANSWER: birds (accept I Know Why the Caged Bird Sings; accept the caged bird and/or the free bird; do not accept or prompt on specific species of birds)

(43) Name the 1950s military conflict that ended with the establishment of a 38th parallel demilitarized zone between the north and south sides of an Asian peninsula.

ANSWER: Korea (accept Korean War)

(44) Name the Dutch-born artist who painted *Bedroom in Arles*, *The Potato Eaters*, and *Self-Portrait with Bandaged Ear*.

ANSWER: Vincent van Gogh (accept Vincent Willem van Gogh)

(45) Name the U.S. state where the Allegheny [AL-ah-GAY-nee] River flows through the city of Pittsburg, which sits across this state from Philadelphia.

ANSWER: Pennsylvania

(46) What country is the home of authors Thomas Keneally and Peter Carey, whose novels are set in the Outback and cities like Sydney?

ANSWER: Australia (accept Commonwealth of Australia)

(47) What mathematical adjective describes a lens that curves outward, and is the opposite of concave?

ANSWER: convex

(48) The short story “Nightfall” was written by what classic science fiction author, who also wrote the *Foundation* trilogy and proposed the Three Laws of Robotics?

ANSWER: Isaac Asimov

(49) What military leader, nicknamed the “Scourge of God,” was defeated at the Battle of Chalons [shah-LOHN] while leading the Huns?

ANSWER: Attila the Hun

(50) What planet has the “Cassini Division” between its A and B rings, and is the second-largest gas giant in our solar system, orbiting the sun between Uranus and Jupiter.

ANSWER: Saturn

(51) What king of Israel was sculpted in marble by Michelangelo, who depicted him holding a slingshot as he prepares to face Goliath?

ANSWER: David (accept King David; accept Dawud)

(52) What professional sport includes the WTA and the ATP, which are the women’s and men’s professional tours, and has tournaments like the French Open and Wimbledon among its Grand Slams?

ANSWER: tennis

(53) What human organ can suffer from cirrhosis, which interferes with this organ’s ability to filter blood and produce bile?

ANSWER: liver

(54) Name the U.S. state whose city of Gary is in the Central time zone because of its proximity to Chicago, even though most of the state, including Fort Wayne, is in the Eastern time zone.

ANSWER: Indiana

(55) What school subject is the main topic of the *Elements* by Euclid [yoo-klid], a textbook that outlines five postulates, as well as many proofs of theorems involving quadrilaterals and triangles?

ANSWER: geometry (prompt on “math(ematics)”)