

1st and 3rd periods. In these periods, your team will choose a category and be read ten questions for you to complete in ninety seconds. After each response, the moderator will indicate whether or not it was correct.

Bonus Category: LITERARY TERMS

1. Also called a storyline, this is the main story in a work.

answer: plot

2. This is a work in which a person tells their own life story, such as Ted Turner's *Call Me Ted*.

answer: autobiography (prompt on "biography")

3. Samuel Beckett's *Waiting for Godot* is considered this kind of story in which senseless or laughably foolish.

answer: absurd (accept word forms)

4. In one of these, an author recounts events from the past to help explain the story.

answer: flashback

5. Some call Joseph Conrad's *Heart of Darkness* one of these works, whose length is between that of a short story and novel.

answer: novella

6. This is a work that makes fun of another through exaggerated situations and characters similar to real people.

answer: parody or satire

7. Like "Mark Twain," an author might use one of these fake names if they wish to remain anonymous.

answer: pen name or pseudonym

8. The ancient Greek Aesop wrote many of these tales that use animals to tell a moral story.

answer: fables

9. This French term means "untying" and is the final resolution of a story.

answer: denouement [DAY-new-mont]

10. Usually more detailed than a comic, these are novels in which the story is told through pictures.

answer: graphic novels

Bonus Category: PHYSICAL SCIENCE

1. What attractive force holds the planets in orbit and you on the ground?

answer: gravity

2. A rope, cable, or belt runs around a wheel in what simple machine found on cranes?

answer: pulley

3. In a vacuum, the speed of what particles travel at 186,000 miles per second?

answer: light (or photons)

4. Used in nuclear reactors, what nuclear process involves the splitting of atoms?

answer: fission

5. What form of radiation did Wilhelm Röntgen discover, which he later used to take a picture of the bones in his hand?

answer: X-rays or X radiation

6. While violet is on one end of the visible spectrum, what color with longest wavelength is at the other end?

answer: red

7. Physicists use what technique where a hypothesis is formed, data is collected in experiments, and conclusions are drawn?

answer: scientific method (prompt on "experimental method")

8. What branch of science uses physics knowledge to construct things like buildings, bridges, and vehicles?

answer: engineering

9. While a cathode is the positive terminal of a battery, what is the negative end called?

answer: anode

10. What Princeton scientist developed the Theory of Relativity and the equation $e = mc^2$?

answer: Albert Einstein

Bonus Category: GEOMETRY TERMS

1. Calculated with the formula pi times diameter, what special term is used for the perimeter of a circle?

answer: circumference

2. This term for a triangle's height also means vertical distance above the Earth's surface.

answer: altitude

3. Seen on stop signs, what is an eight-sided polygon called?

answer: octagon

4. The side opposite the right angle in a triangle is known by what term?

answer: hypotenuse

5. Also used for lines of latitude, what term describes lines that never touch?

answer: parallel

6. The regular dodecahedron has what shape on its 12 faces?

answer: pentagon(s)

7. Supplementary angles add up to how many degrees?

answer: 180

8. Similar to the shape of a volcano, this is a solid with a circular base and a vertex whose volume is one-third that of a similar cylinder.

answer: cone

9. What kind of angles have their vertices at the middle of a circle?

answer: central angles

10. What term is used to describe half of a sphere?

answer: hemisphere

Bonus Category: WORLD WORDS AND PHRASES

1. What item needed by automobiles do the British call "petrol"?

answer: gasoline

2. Cincinnati Bengals' player Chad Johnson changed his name to Ochocinco because he wears what jersey number?

answer: 85

3. What symbol board used during séances to talk to the dead has a name meaning "yes" in French and German?

answer: Ouija

4. What animal with a Dutch name meaning "earth pig" is not the same thing as an anteater?

answer: aardvark

5. What religion has an Arabic name meaning "submission to God"?

answer: Islam

6. What would one expect to get in an Italian restaurant if you ordered muffuletta, focaccia, or pita?

answer: bread (accept: a sandwich as the bread are used to make them)

7. What Swahili phrase for "there are no worries" was used as a title of a song that Simba sang in *The Lion King*?

answer: Hakuna matata

8. What word used for historical Russian leaders is derived from the name "Caesar"?

answer: tsar or czar

9. The former home of hockey's Jets, what Manitoban capital has a Cree name meaning "swamp"?

answer: Winnipeg

10. What Tahitian word referred to the practice of marking the skin with patterns or symbols?

answer: tattoo(ing)

Bonus Category: VIDEO GAME SERIES BY CHARACTERS

Given some of the characters, name the video game franchise that they appear in.

1. Princess Peach, Bowser, Yoshi, Birdo

answer: Mario Series (or Super Mario Brothers or any variant; do not accept "Donkey Kong")

2. Sora, Donald Duck, Riku, King Mickey

answer: Kingdom Hearts

3. Amy Rose, Doctor Eggman, Omochao, Shadow

answer: Sonic the Hedgehog

4. Jimmy Lee, Shadow Master, Jawbreaker, girlfriend Marian

answer: Double Dragon

5. Great Deku Tree, Skull Kid, Malon, Vaati

answer: The Legend of Zelda

6. Dr. Light, Enker, Proto Man, Bass

answer: Mega Man (X Series, Zero Series, etc.)

7. Simon Belmont, Dracula, Grant Dynasty, Death

answer: Castlevania

8. Jaffar, Dahaka, Elika, King Shahraman

answer: Prince of Persia

9. Bob Burnquist, Rodney Mullen, Paul Rodriguez, Ryan Sheckler

answer: Tony Hawk series (Skater, Underground, etc.)

10. Ridley, Mother Brain, Chozo People, Samus Aran

answer: Metroid

2nd period: This period contains twenty tossups worth 10 points each. When you think you know the answer, signal with your buzzer and your team will have five seconds to respond.

TOSSUPS:

1. The Saffir-Simpson scale uses categories of one to five to rate what weather phenomenon, with examples of fives being 2007's Dean and Felix, which caused massive damage when they reached land?

answer: hurricanes

2. Introduced in France in 1799 when Lavoisier was asked by the Emperor to create unified measurements, the countries of Burma, Liberia, and the U.S. are the only ones not to use what system including the meter and liter?

answer: metric system or SI or International System of Units

3. To see if the flood had subsided, Noah sent out a raven and what other bird that symbolizes peace?

answer: dove

4. Carvoline Rubbing Oil was a product developed by George Washington Carver made from what legume with brown seed coats and shells used in Reeses Cups?

answer: peanuts

5. Volume VII [seven] and 3/4 is Valentine, while IX [nine] is Mia in what Meg Cabot series about a young girl who is royalty in Genovia?

answer: The Princess Diaries

6. Instruments including the kaval, recorder, bagpipes, bassoon, and oboe belong to what class of instruments that make their sound when a musician exhales?

answer: woodwinds

7. What is the past participle of the verb "seek", as in something you were looking for?

answer: sought

8. Equaling 6,076 feet, what unit used to measure nautical speeds comes from the ropes sailors used to measure distance that had tangled markers in them?

answer: knot

9. Currently trading at about 650 Euros per ounce, a Federal Law passed in 1900 created a "standard" for money based on what metal?

answer: gold

10. Bromine and mercury are the only elements to exist in what phase at room temperature?

answer: liquid

11. Ustad Ahmad Lahauri was the chief architect of what 17th century structure built for Mumtaz by the Shah Jahan, that is a mausoleum located in Agra, India?

answer: Taj Mahal

12. Besides being Super Bowl champions, the 1980 Oakland Raiders, 1997 Denver Broncos, 2000 Baltimore Ravens, 2005 Pittsburgh Steelers, and 2007 New York Giants all made it to the game after being what kind of playoff team that did not win their division?

answer: wild card team

13. The number of non-Soviet Union members of the Warsaw Pact and the number of Central American countries is the same as what quantity, the number of continents on the Earth?

answer: 7

14. In 2008, Popcap released a "Blitz" version on Facebook of what game in which players swap precious stones to create three-in-a-row color combinations?

answer: Bejeweled

15. Pencil and paper ready. What is the x-coordinate of the intersection of the graphs y equals 2 plus x and y equals 2 minus x ? (You get 10 seconds.)

answer: x equals 0 [both graphs go through (0, 2)]

16. The President of Washington University in October 1865, what man with a middle name of "Edward" was called the Grey Fox and the Great Entrencher for urging his southern Civil War troops to dig in deeper?

answer: Robert E. Lee

17. In a poem, William Wordsworth said he "Wandered Lonely" as what object that "floats on high o'er vales and hills" and can be seen in the sky?

answer: cloud

18. Weighing 8.5 tons, composed of Swarovski crystal, and using 1200 dimmable lights, the Sultan Qaboos Grand Mosque in Oman may have the world's largest of what kind of branched ceiling-mounted light fixture?

answer: chandelier

19. John Hay, William Seward, John Foster Dulles, Henry Kissinger, and Condoleezza Rice have all held what U.S. Cabinet position concerned with foreign affairs, a position currently held by Hillary Clinton?

answer: Secretary of State

20. Currently led by Miuccia, the product lines Miu Miu and Linea Rossa are by what Italian luxury fashion house known for leather and shoes, that the devil wears in a 2006 film?

answer: Prada

4th period: This period contains twenty tossups worth 15 points each. When you think you know the answer, signal with your buzzer and your team will have five seconds to respond.

TOSSUPS:

1. The "straight-ahead" type of this was associated with periods before Wayne Shorter and typically used a 4/4 [four four] time signature. F. Scott Fitzgerald's "The Curious Case of Benjamin Button" was part of his tales of the age named for this, which was roughly 1918 to 1930. Some performers known for this style of music include Thelonious Monk, Charlie Parker, Ella Fitzgerald, and Cab Calloway. For 15 points—fusion, big band swing, bebop, and New Orleans dixieland are movements in what kind of music?

answer: jazz

2. A joke is played on one character in this show by putting elephant droppings in his convertible and gluing his face to the window. In another episode the characters get bad cafeteria food while lobster goes to the casts of the rival *MacKenzie Falls*. Characters on this show include Grady Mitchell, Tawni Hart, and Chad Dylan Cooper. For 15 points—name this Disney Channel show starring Demi Lovato about a teenager that in the sketch comedy show *So Random!*.

answer: Sonny With a Chance

3. The honey fungus has this ability as does the will-o'-the-wisp. The vampire squid does this to camouflage itself in the water, while the railroad worm uses two luciferins to confuse predators. The angler fish has this ability through a fleshy growth protruding from its head that wiggles like a worm to attract prey. For 15 points—name this ability of an organism commonly seen in the mate-seeking fireflies.

answer: bioluminescence or producing light or anything equivalent

4. In the end of this story it is said that naughty children cause angels to shed tears adding days to their trial. The main character has five elder sisters who sell their hair for a special knife and visit human beings when each turns fifteen years old. After saving a prince from a shipwreck, the protagonist visits the Sea Witch to get a potion that grow legs, but if the prince marries someone else, she will die and dissolve into the sea foam. For 15 points—name this Hans Christen Andersen work made into a Disney film about Ariel.

answer: The Little Mermaid

5. This name was given to the New York City theater where Ella Fitzgerald made her 1934 singing debut. In Greek mythology, this was the name of the god of light worshiped at the Delphic Oracle. It was the nickname of Lee Adama in *Battlestar Galactica*, and an Ace Attorney with last name Justice in the Nintendo DS series. For 15 points—give this name, used by NASA to describe the mission of the astronauts that went to the moon.

answer: Apollo

6. Henry James wrote about the character Isabel Archer in one of these "of a Lady". In that case the word means a verbal description, but this word can also mean orienting a sheet of paper such that the longest side runs top to bottom. The artist Gilbert Stuart is famous for one of these appearing on the one dollar bill, and Vincent van Gogh's one of Doctor Gatchet shows him sitting at a table. For 15 points—name this word for a picture of a person.

answer: portrait

7. This team started their most recent season by playing against the Ottawa Senators at the Stockholm Globe Arena in Sweden. Players that scored goals for this team included Matt Cooke, Tyler Kennedy, Jordan Staal, and Evgeni Malkin. This team that plays its home games in the Mellon Arena finished 2nd in the Atlantic Division behind New Jersey in the 2009 season, but defeated the Flyers, Capitals, Hurricanes, and Red Wings in the postseason. For 15 points—name these Stanley Cup champions of Western Pennsylvania.

answer: Pittsburgh Penguins (accept either underlined name)

8. In 1993, First Lady Hillary Clinton led a task force charged with recommending changes for this political topic, but her plan failed to pass Congress. A related effort that did pass in 1997 is known as CHIP. The United States spends more per person than any developed country on this, but about 47 million Americans lack insurance for this service, a challenge the Congress attempted to fix in 2009. For 15 points—name this political topic related to HMO's and Medicare.

answer: health care or health insurance (accept equivalents)

9. The headquarters used at this place was the Isaac Potts House located where a namesake creek meets the Schuylkill ["school-kill"] River. Chosen immediately following the Battle of White Marsh, it was said you could track the soldiers by the blood in the snow. It was here that Baron Friedrich von Steuben drilled troops of the Continental Army. For 15 points—name this location eighteen miles outside of Philadelphia that General Washington and his troops endured the harsh winter of 1777.

answer: Valley Forge, Pennsylvania

10. Sections of this object are called the maxilla, zygomatic, sphenoid, parietal, and frontal, which are connected by fibrous sutures that allow little movement between its parts. Located above the cervical vertebrae, this object with a protective function is close to the mandible, a structure used in talking. For 15 points—name this bone that has two orbits in its front for your eyes.

answer: skull

11. During the French Revolution, the government renamed some of these Ventôse and Thermidor. In astronomy, the sidereal [sigh-DARE-re-all] one of these is the time needed for the moon to return to the same point in the sky. The last three in our current system were the eighth, ninth, and tenth in Roman naming. For 15 points—what are these periods of time that in our calendar run 28, 30, or 31 days?

answer: month

12. The reason that it occasionally needs a fifth piece of information is that four would only accommodate thirty values and thirty-six were commonly used. The length of one of the data pieces is three times the length of the other. In May 1844, this system was used to say "What hath God wrought" between Baltimore and Washington D.C. For 15 points—three dots, three dashes, three dots means "S.O.S." in what code used on telegraphs?

answer: Morse Code

13. This author wrote about a woman who has lost her husband in *The Rose Tattoo*. In another play, this author wrote about Brick and Maggie's interactions with Big Daddy. Besides *Cat On a Hot Tin Roof*, while living in the French Quarter of New Orleans, this author began *A Streetcar Named Desire*. For 15 points—name this author who was born Thomas but took the name of the state of his father.

answer: Thomas Lanier "Tennessee" Williams

14. English words derived from this language include yacht, wagon, coleslaw, and Santa Claus. Because early New York settlers spoke it, the names of Brooklyn and Harlem are from this language. The official language of Suriname, speakers of Afrikaans in South Africa can understand it, and there are speakers in the Flanders region of Belgium. For 15 points—name this language of the Netherlands, a term mistakenly used to describe Pennsylvania Amish, and also used to describe jumping two ropes together.

answer: Dutch (accept: Pennsylvania Dutch, double dutch)

15. In chess notation, this symbol indicates an unusually good move, while many programming languages including Java use it to mean "not". This symbol is in the titles of the musicals *Oliver!* and *Oklahoma!*. Germans use this in a letter's salutation, and like the question mark, in Spanish sentences using this symbol have an inverted one at the beginning. For 15 points—name this symbol used to indicate a command, astonishment, or a strong feeling at the end of a sentence.

answer: exclamation point or exclamation mark (accept: bang or ! if they draw it)

16. Pencil and paper ready. Brianna travels 30 miles per hour for 3 hours and then 60 miles per hour for 6 hours. Brianna's average miles per hour can be found by taking the total distance traveled by her car and dividing by the total time of the trip. For 15 points—what is Brianna's average miles per hour? You get 10 seconds.

answer: 50 miles per hour [$3 \times 30 = 90$, $60 \times 6 = 360$, $450 / 9 = 50$]

17. The third person to lead a group that accomplished this was Thomas Cavendish in 1586, who returned with topsails trimmed with gold cloth. The second person to do this robbed a silver caravan in Panama for Queen Elizabeth. The first person on such an expedition didn't finish it, as he died at Mactan beach by Filipino spears. For 15 points—what is this feat accomplished by ships originally captained by Sir Francis Drake and Ferdinand Magellan?

answer: circumnavigation of the globe or sailing around the world or anything equivalent

18. In one film, this actor was Detective Del Spooner, a Chicago investigator of a suicide at U.S. Robotics. In another film he was Captain James West, who encounters steampunk inventions like a large mechanical spider. Besides *Wild Wild West* and *I Robot*, this husband of Jada Pinkett also encounters Jack Jeebs, an alien posing as a pawn shop owner in his role as Agent J and blew up alien invaders on July fourth. For 15 points—name this star of *Men in Black* and *Independence Day*.

answer: Willard Christopher "Will" Smith, Jr.

19. This was originally named "number 15" by the 1808 British Great Trigonometric Survey. In May 2005 Didier Delsalle set a record by landing a helicopter at this site. Areas located around this object include the Nuptse corner, the Khumbu Glacier, the Western Cwm ["coom"], and the Kangshung face. Tenzing Norgay from Nepal was the first Sherpa to successfully reach its peak. For 15 points—name this tallest mountain of the world.

answer: Mount Everest

20. A person doing this might show a K-complex on a EEG that is believed to have a role in memory consolidation. This occurs in stages that last ninety minutes with sections called "slow wave" and "rapid eye movement". Narcolepsy is when a person suddenly starts doing this without warning, while apnea is breathing stoppage during this that causes later restlessness. For 15 points—name this activity that humans for about eight hours each night.

answer: sleep