

NMMS (Northmont Middle School)

Round One

Packets by: David Jones, Emily Bingham, Kara Combs

1. **This political leader resigned as First Lord of the Admiralty after the failed Gallipoli Campaign in Turkey. In this man's first speech to the House of Commons, he stated "I have nothing to offer but toil, tears, and sweat".** While in Fulton, Missouri, this man gave his "Iron Curtain" speech and he was preceded in office by Neville Chamberlain. For 10 points, what man served as British Prime Minister during World War II?

ANSWER: Winston Churchill

BONUS: For 10 points each, answer the following about the Dutch artist Vincent Van Gogh:

[10] Van Gogh is perhaps best known for what painting that he created after looking out of his sanatorium window? This painting features a swirling sky, a large cypress tree, and the town of St. Remy.

ANSWER: Starry Night

[10] After an altercation with Paul Gauguin, Van Gogh cut off what body part. He later painted a *Self Portrait with a Bandaged* one.

ANSWER: Left Ear

[10] A pool table sits in the center of the room beneath four lights in what Van Gogh painting that depicts a business in Paris?

ANSWER: The Night Cafe

2. **In one novel from this country, the Oath of the Peach Garden is sworn by the leaders of the three title locations. In another novel from this country, the monk Tripitaka is accompanied by Pigsy, Sandy, and the monkey king Sun Wukong** in retrieving some Buddhist texts from Vulture Peak in India. *Romance of the Three Kingdoms* and *Journey to the West* are two of the four classic novels of what Asian country?

ANSWER: China

BONUS: Answer the following about trigonometry. For 10 points each:

[10] Trigonometry is a branch of mathematics studying relationships between the lengths and angles of what three-sided shapes?

ANSWER: triangles

[10] All triangles have three angles, which add up to what value in degrees? This is also the number of degrees in a straight line.

ANSWER: 180 degrees

[10] What name is given to the longest side of a right triangle?

ANSWER: hypotenuse

3. **This goddess is often called “gray-eyed” and she was born fully formed from the head of Zeus. This goddess was the daughter of Metis and she famously defeated Arachne in a weaving contest.** For 10 points, identify this Greek goddess of wisdom who is the counterpart of the Roman goddess, Minerva.
ANSWER: Athena

BONUS: Answer these questions about the seventh U.S. president. For 10 points each:

[10] What man who had served as a general during the War of 1812 served as the seventh President?

ANSWER: Andrew Jackson

[10] Andrew Jackson was not elected as president until 1828 due in part to the “Corrupt Bargain” that was reached between his predecessor, John Quincy Adams, and what Kentucky representative who was serving as Speaker of the House?

ANSWER: Henry Clay

[10] While president, Jackson signed the Indian Removal Act which forcibly relocated Native Americans to Oklahoma along a route given what name?

ANSWER: Trail of Tears

4. **Newly created fragments of this molecule are named after “Okazaki,” and this molecule is “unzipped” by the enzyme Helicase. The Meselson-Stahl experiment showed that this molecule has a semi-conservative nature during its replication.** For 10 points, Watson and Crick discovered the double helix structure of what molecule that stores genetic information?

ANSWER: DNA (accept “deoxyribonucleic acid” before mentioned)

BONUS: Name some bears from children’s literature, for 10 points each.

[10] What honey-loving bear created by A. A. Milne lives in the Hundred Acre Wood with his friends Piglet, Eeyore, and Tigger?

ANSWER: Winnie the Pooh

[10] In what book by Don Freeman does the title green-clad bear search a department store looking for a button missing from his overalls?

ANSWER: Corduroy

[10] What Peruvian bear, created by Michael Bond, is found at a namesake train station in London sitting on his suitcase and is adopted by the Brown family?

ANSWER: Paddington Bear

5. **One figure in this book fathered a child with his maid Hagar. That figure in this book later cursed his son who saw him without any clothes on. In this book, Jacob’s name is changed to Israel before his children descend into Egypt.** For 10 points, identify this first book of the Bible that describes the exile of Adam and Eve from the Garden of Eden.

ANSWER: Book of Genesis

BONUS: These compounds are classified as nutrients that must be obtained through diet, but only in small amounts. For 10 points each:

[10] Centrum and One A Day are popular brands of what type of nutritional supplements?

ANSWER: Vitamins

[10] Ascorbic acid is more commonly known as what type of vitamin often associated with citrus fruit?

ANSWER: Vitamin C

[10] What letter symbolizes vitamins such as thiamine and niacin? The numbers 1, 3, and 12 are often paired with this letter to identify vitamins.

ANSWER: B

6. One isotope of this element is commonly produced by bombarding lithium with neutrons and is called tritium. Another isotope of this element is found in heavy water and is called deuterium. This element, which names the strongest type of covalent bond, makes up 66% of a water molecule. For 10 points, identify this first element on the periodic table that has the atomic symbol, H.

ANSWER: Hydrogen

BONUS: This character is a senior theoretical physicist at Caltech and has a twin sister named Missy. For 10 points each,

[10] Identify this roommate of Leonard Hofstadter on *The Big Bang Theory*.

ANSWER: Sheldon Cooper (accept either underlined answer)

[10] On the first episode of this season of *The Big Bang Theory*, Sheldon Cooper got engaged to what neuroscientist played by Mayim Bialik?

ANSWER: Amy Farrah Fowler (accept either underlined answer)

[10] In early seasons of *The Big Bang Theory*, Sheldon is mortal enemies with what man who starred as Wesley Crusher on *Star Trek*?

ANSWER: Wil Wheaton (accept either underlined answer)

7. Hot air balloons were used during this war at a battle fought on Kettle Hill. As a result of this war, the Platt and Teller amendments were passed. One side in this war gained control of Guam and the Philippines at its conclusion, and this war was sparked by the use of “yellow journalism” that sensationalized the explosion of the *USS Maine*. For 10 points, identify this war fought in 1898 that pitted the US against a European nation.

ANSWER: Spanish-American War

BONUS: For 10 points each, given a US National Park, identify the state in which it is located.

[10] Badlands National Park is located in what state that is also the site of Mount Rushmore?

ANSWER: South Dakota

[10] Everglades National Park is located in the southern portion of what state that contains the cities of Destin and Naples?

ANSWER: Florida

[10] Grand Canyon National Park is found in what US state through which the Colorado River flows on its way to Mexico?

ANSWER: Arizona

8. In this novel, the onion-seller Sam is attacked and killed by a white mob, leading to a mysterious drought and to Katherine becoming the outlaw “Kissin Kate Barlow.” The curse of Madame Zeroni is finally broken when the protagonist of this novel carries Zero up a mountain shaped like God’s Thumb. After being accused of stealing a pair of shoes, Stanley Yelnats is forced to dig the title pits at Camp Green Lake in, for 10 points, what novel by Louis Sachar?

ANSWER: Holes

BONUS: Bronsted and Lowry defined these substances as a proton donors. For 10 points each:

[10] Identify these substances exemplified by vinegar that come in acetic and sulfuric varieties.

ANSWER: acids

[10] Acids have a value below seven on what scale that determines how acidic or basic a substance is?

ANSWER: pH scale

[10] What substance has a value of seven on the pH scale and is thus considered to be neutral?

ANSWER: water or H₂O

9. This philosopher wrote a text in which Aristophanes gives a speech about individuals finding their “other half.” That text also features this man’s teacher Socrates discussing the nature of love. In addition to writing *Symposium*, this philosopher wrote about prisoners discovering the sun for the first time and realizing that their perception of reality was false in “The Allegory of the Cave.” What Ancient Greek philosopher collected many of his famous dialogues in *The Republic*?

ANSWER: Plato

BONUS: Answer the following about a general from Carthage, for 10 points each:

[10] What son of Hamilcar Barca fought at the Battles of Cannae and Lake Trasimene during the Second Punic War?

ANSWER: Hannibal

[10] Carthage fought the Punic Wars against what empire whose leaders have included Augustus Caesar?

ANSWER: Rome OR Roman Empire

[10] Hannibal famously led an army of what type of animal on a march through the Alps to invade Italy?

ANSWER: Elephants

10. This religion’s male and female priests are called houngans and mambos. Due to its members not being able to pray directly to the head god, Bondeye, practitioners of this religion pray to lesser spirits called Loa, such as Baron Samedi or Papa Legba. For 10 points, identify this syncretic religion native to Haiti that is known for its namesake dolls.

ANSWER: Voodoo

BONUS: Answer some questions about fruit in literature, for 10 points each.

[10] In a Roald Dahl novel, the Centipede, Miss Spider, The Ladybug, and James have adventures in what giant fruit?

ANSWER: a **peach**; accept *James and the Giant Peach*

[10] Tom Joad and his family travel West seeking work during the Great Depression in a John Steinbeck novel entitled *The [these] of Wrath*.

ANSWER: *The Grapes of Wrath*

[10] In *The Metamorphosis* by Franz Kafka, Gregor Samsa's father throws what fruit at Gregor after he turned into a huge bug?

ANSWER: **apples**

11. In one novel by this author, the immoral Mr. Willoughby is rejected by Marianne Dashwood, whose sister Elinor ends up marrying the disinherited Edward Ferrars. In addition to *Sense and Sensibility*, this author wrote a novel in which the protagonist is at first put off by the behavior of Mr. Bingley's friend, who refuses to dance with her at a ball, though they eventually marry anyway. What British author wrote about Mr. Darcy and Elizabeth Bennett in *Pride and Prejudice*?

ANSWER: Jane **Austen**

BONUS: This god is the father of the Midgard Serpent. For 10 points each,

[10] Identify this Norse trickster god.

ANSWER: **Loki**

[10] Loki is also the father of what wolf from Norse myth who will kill Odin at Ragnarok?

ANSWER: **Fenrir**

[10] At Ragnarok, Loki will kill and be killed what Norse god who guards the Bifrost bridge?

ANSWER: **Heimdall**

12. This mineral is ranked as having the lowest relative crystallization temperature on the Bowen's Reaction Series, and it is often found in varieties such as citrine or amethyst. On the Moh's Hardness Scale this mineral has a rating of seven and it is the second most abundant element in earth's crust. For 10 points, silicon dioxide primarily comprises what mineral found in sand and glass.

ANSWER: **Quartz**

BONUS: Answer the following questions about Mormonism for 10 points each:

[10] What man was visited by the Angel Moroni and is considered the founder of Mormonism?

ANSWER: Joseph **Smith**

[10] Joseph Smith was able to write the Book of Mormon after the Angel Moroni revealed to him the location of plates made of what precious material?

ANSWER: **Gold**

[10] Traditionalist Mormons believe in what practice of marrying multiple wives?

ANSWER: **Polygamy**

13. Limitations were placed on this action by the Supreme Court case *Gonzales v. Carhart* and the Hyde Amendment removed any federal funding for this action. A case about this practice used a precedent set forth in *Griswold v. Connecticut* which allowed for a “right to privacy.” Norma McCorvey sued for her right to perform this action, that is the subject of the case *Roe v. Wade*. For 10 points, identify this action that references the deliberate termination of a pregnancy?

ANSWER: Abortions

BONUS: Answer these questions about the labors of Hercules, for 10 points each.

[10] Hercules twelfth labor involved capturing what three-headed dog that guarded the underworld?

ANSWER: Cerberus

[10] Hercules first labor was to slay what type of creature that had been taking women hostage in a cave near Nemea?

ANSWER: Lion

[10] Hercules second labor was to slay what many headed water monster that was the offspring of Typhon and Echidna.

ANSWER: Lernaean Hydra

14. In the first work from this musical collection, violas mimic a barking dog. Violins play pizzicato in a section of one work from this collection entitled “Storm”. The composer of this musical composition collected them in *The Contest Between Harmony and Invention*. For 10 points, Antonio Vivaldi composed what set of violin concerti which includes movements entitled, “Autumn,” “Winter,” “Spring,” and “Summer.”

ANSWER: *The Four Seasons*

BONUS: Answer the following about the Corps of Discovery, for 10 points each:

[10] All or nothing. The Corps of Discovery Expedition that explored the land obtained from the Louisiana Purchase was led by what two men?

ANSWER: Meriwether Lewis and William Clark (Do not prompt on partial answer)

[10] Lewis and Clark were guided from North Dakota to the Pacific Ocean by what Shoshone woman?

ANSWER: Sacagawea

[10] Midway through the expedition, Lewis and Clark began traveling along what river that forms the border between Washington and Oregon?

ANSWER: Columbia River

15. During World War II, Nazi leaders initially planned to relocate Jews to this island. A cat-like animal called the fossa as well as the ring-tailed lemur are native to this island. Malagasy is the official language of this island that is located just east of the Mozambique Channel. For 10 points, identify this African island nation with capital at Antananarivo.

ANSWER: Madagascar

ONUS: Name some African American authors, for 10 points each.

[10] What author wrote about her time growing up in Stamps, Arkansas with her brother Bailey in her first memoir *I Know Why the Caged Bird Sings*?

ANSWER: Maya Angelou

[10] What man wrote two narratives detailing his time in slavery including *My Bondage, My Freedom* in addition to publishing the abolitionist newspaper *The North Star*.

ANSWER: Frederick Douglass

[10] What Ohio-born author wrote about Pecola Breedlove envying Shirley Temple's whiteness in *The Bluest Eye* and about the title ghost haunting Sethe [seth-uh] in *Beloved*?

ANSWER: Toni Morrison

16. This team used a 2014 first round draft pick on cornerback Justin Gilbert two years after drafting Oklahoma State quarterback Brandon Weeden in the first round. Hue Jackson is the current head coach of this team that used the first overall pick in the 2017 draft on defensive end Myles Garrett. Identify this NFL team that joins the Bengals, Ravens and Steelers in the AFC North.

ANSWER: Cleveland Browns (accept either underlined answer)

BONUS: Identify the follow stages of mitosis for 10 point each:

[10] The nucleus disappears and chromatin condenses in what first stage of mitosis?

ANSWER: Prophase

[10] Chromosomes line up in the middle of the cell during what stage of mitosis that follows prophase?

ANSWER: Metaphase

[10] A cleavage furrow forms in what final stage of mitosis that see the separation of two daughter cells?

ANSWER: Cytokinesis

17. The Donner Party was headed for this state before being trapped in the mountains and resorting to cannibalism. John C. Fremont served as a Senator from this state that was known as the "Bear Flag Republic". A discovery at Sutter's Mill led to a 1948 gold rush in this US state. For 10 points, what west coast state is home to the cities of Sacramento and Los Angeles?

ANSWER: California

BONUS: For 10 points each, given the number of sharps and flats, name the major key:

[10] Zero sharps and flats

ANSWER: C major

[10] No sharps and one flat.

ANSWER: F major

[10] Three sharps and no flats.

ANSWER: A major

18. **Thirty years after this painting was completed, its artist painted a “Disintegration” of it. This painting is nicknamed “Soft Watches” and features the Cliffs of Cadaques in the background. This painting depicts a tree growing from a brown box and a group of ants gathering on a red pocket watch. For 10 points, identify this Salvador Dali painting that notably features melting clocks.**

ANSWER: The Persistence of Memory

BONUS: Identify the following phase changes for 10 points each:

[10] When liquid water turns into solid ice, it is an example of what kind of phase change?

ANSWER: Freezing (Accept word forms)

[10] When liquid water turns into its gas phase, it has undergone what kind of phase change?

ANSWER: Evaporation (Accept word forms)

[10] When a substance directly translates from a gas to a solid, what phase change has taken place?

ANSWER: Deposition

19. **The protagonist of one work is warned about this event by Moshe the Beadle, who escaped this event after being forced onto a cattle train from the Sighet ghetto. Miep Gies kept a work detailing the narrator’s first kiss with Peter van Pels in the secret annex during this event. The title character of that work hid with her sister Margot during this event before being taken to Bergen-Belsen. *Night* by Elie Wiesel and Anne Frank’s *The Diary of a Young Girl* detail experiences during what genocide that occurred in 20th century Europe?**

ANSWER: the Holocaust

BONUS: For 10 points each, answer the following questions about the author of *Long Walk to Freedom*.

[10] What man, who was formerly imprisoned on Robben Island, became South Africa’s first black President in 1994?

ANSWER: Nelson Mandela

[10] Mandela was awarded the 1993 Nobel Peace Prize due to his involvement in ending what policy of racial segregation in South Africa?

ANSWER: Apartheid

[10] During his early career, Mandela served as a lawyer in what largest South African city by population?

ANSWER: Johannesburg

20. **This device was used to cool rubidium atoms when creating the first Bose-Einstein condensate. A gain medium is required to operate one of these devices that requires population inversion in order to operate. Theodore Maiman created one of these devices out of ruby, and they produce light amplification by stimulated emission of radiation. For 10 points, name this devices that produce a beam of light.**

ANSWER: Lasers

BONUS: The title character of this novel prepares to protect Elizabeth Lavenza on the night he marries her, but the Creature kills her anyway. For 10 points each:

[10] Identify this novel in which Victor, a student at the University of Ingolstadt, creates a hideous monster.

ANSWER: *Frankenstein*

[10] What author wrote *Frankenstein* for a horror story competition with Lord Byron, John Polidori, and this author's husband Percy?

ANSWER: Mary Shelley

[10] After Elizabeth's murder, Victor pursues the monster to this location, where he dies of hypothermia before he can enact his revenge.

ANSWER: the North Pole

TB: In this novel, Clopin attempts to organize a group of Truands from the Court of Miracles to attack the title structure in an attempt to save a woman held there by the protagonist. That protagonist of this novel swings on a rope from a bell tower to save a woman who had been falsely accused of attempting to murder Phoebus, who had actually been attacked by the Archdeacon Claude Frollo. The gypsy Esmeralda is eventually hanged despite the efforts of Quasimodo in what novel by Victor Hugo.

ANSWER: *The Hunchback of Notre Dame*