

NMMS (Northmont Middle School)
Round Seven

Packets by: David Jones, Emily Bingham, Kara Combs

1. **Chicago mayor Anton Cermak was murdered in this city in 1933 by Giuseppe Zangara in an attempt on the life of FDR. Both Burger King and Carnival Cruise Lines are headquartered in this city, which is sometimes called the “Capital of Latin America”.** In October 2016, Marlins pitcher Jose Fernandez was killed off the coast of, for 10 points, what large city in south Florida with a large Cuban population.

ANSWER: Miami

BONUS: Identify some children’s books by African American authors, for 10 points each.

[10] In this Sharon M. Draper book, Andy is tormented by his decision to drive drunk one night, which results in a car crash that kills his friend Robbie.

ANSWER: Tears of a Tiger

[10] In this novel by Christopher Paul Curtis, the title 12 year old orphan joins a jazz band to find out more about his family. The title of this novel comes from an unwanted nickname that the protagonist’s foster brother Todd calls him.

ANSWER: Bud, Not Buddy

[10] In this Mildred D. Taylor book, Cassie Logan’s sets fire to the land on which he sharecrops in an attempt to save the life of the teen T.J., who was set to be lynched.

ANSWER: Roll of Thunder, Hear My Cry

2. **One type of this quantity is described as the time derivative of torque, and the change in another form of this quantity is called impulse. This quantity is conserved in all collisions and is calculated by mass times velocity.** For 10 points, the Greek letter, Rho, symbolizes what quantity that comes in angular and linear forms?

ANSWER: Momentum

BONUS: This building features frescoes such as *The Drunkenness of Noah* and a work that shows God reaching for the title figure. For 10 points each,

[10] *The Creation of Adam* and other frescoes by Michelangelo can be found in what Vatican building?

ANSWER: Sistine Chapel

[10] *The Creation of Adam* was painted by Michelangelo on what part of the Sistine Chapel?

ANSWER: ceiling

[10] Michelangelo included a self portrait on the flayed skin of St. Bartholomew in what Sistine Chapel fresco name for a biblical event that is a part of the second coming of Jesus?

ANSWER: The Last Judgement

3. **Description acceptable. This policy was supported by the axe wielding Carrie Nation and it was officially enacted by the Volstead Act. The twenty-first amendment ended this policy that eventually led to many illegal saloons and speakeasies.** For 10 points, bootleggers were popular during what short-lived policy that banned the sale of alcoholic beverages in the United States?

ANSWER: Prohibition or Temperance (accept “banning of alcohol” until mentioned)

BONUS: Bowman's Capsule and the Loop of Henle are found in this organ. For 10 points each,
[10] Identify these paired organs that are responsible for filtering blood.

ANSWER: Kidneys

[10] Someone experiencing kidney failure may undergo what treatment in which a machine removes excess water and toxins from the blood?

ANSWER: Dialysis

[10] After urine leaves the kidney through the ureter, it travels to what organ that stores urine before it is released through urination?

ANSWER: Bladder

4. The narrator of this text sees a figure with seven heads and ten horns who holds the abominations of mankind in her cup. This text opens with a man sending letters to the seven churches of Asia and sees the opening of the Seven Seals and the establishment of the New Heaven and Earth. For 10 points, John of Patmos wrote what final book of the Bible?

ANSWER: Book of Revelation

BONUS: For 10 points each, answer the following about a state that almost legalized slavery in the Lecompton Constitution.

[10] What US state was called "Bleeding" and was home to Border Ruffians prior to the Civil War?

ANSWER: Kansas

[10] Kansas and what other state were allowed to choose whether or not to become a free or slave states in a namesake compromise named for them?

ANSWER: Nebraska

[10] What abolitionist committed the Pottawatomie Massacre in Kansas and raided Harper's Ferry in West Virginia?

ANSWER: John Brown

5. In this novel, Maurice tramples on the littluns sandcastles, but feels guilty about it later. A pig's head dubbed with the title nickname tells Simon that he and his friends are "the beast" they have feared. In a climactic scene in this novel, the owner of a pair of glasses, Piggy, is killed by a member of Jack's tribe after a boulder is pushed onto him. In what William Golding novel do a group of English schoolboys descend into savagery after crashing onto an island?

ANSWER: Lord of the Flies

BONUS: For 10 points each, given a series of properties in the board game Monopoly, identify what color tiles they are associated with.

[10] St. James Place, Tennessee Avenue, New York Avenue

ANSWER: Orange

[10] Mediterranean Avenue, Baltic Avenue

ANSWER: Dark Purple

[10] Atlantic Avenue, Ventnor Avenue, Marvin Gardens

ANSWER: Yellow

6. This phenomenon is split into spectral lines in the Zeeman Effect, and this phenomenon can polarize light according to the Faraday Effect. Para- and Ferro- are two types of this phenomenon which can be measured in the SI unit, Tesla. For 10 points, what phenomenon has North and South poles, and causes metal objects to “stick” together?

ANSWER: Magnetism or Magnetic field

BONUS: In Mesopotamian mythology, Gilgamesh meets Utnapishtim, a survivor of one of these events. For 10 points each:

[10] Identify this event, a biblical one of which Noah survived.

ANSWER: flood

[10] After Gilgamesh upset Ishtar, he sent a bull from what place to pursue him?

ANSWER: Heaven

[10] Mesopotamian mythology also believes in men who have the poisonous tail of what creature? This creature is associated the zodiac constellation for those with birthdays from October 24th until Number 22nd.

ANSWER: scorpions

7. This poet wrote “the land was ours before we were the land’s” in a poem he recited at JFK’s inauguration, “The Gift Outright.” This poet muses that “nature’s first green is gold” in “Nothing Gold Can Stay” and wonders which substance will destroy the earth in “Fire and Ice.” The narrator of another poem by this man realizes “his little horse must think it queer” that he is pausing though he still has “miles to go before I sleep.” What poet of “Stopping By Woods on Snowy Evening” wrote about two roads diverging in a “yellow wood” in “The Road Not Taken”?

ANSWER: Robert Frost

BONUS: Identify the following aviators. For 10 points each:

[10] What is the last name of Dayton brothers, Orville and Wilbur, who are credited with developing the first airplane?

ANSWER: Wright

[10] What woman attempted to fly across the Atlantic Ocean, but mysteriously disappeared during the journey?

ANSWER: Amelia Earhart

[10] What man flew the *Spirit of St. Louis* when he completed the first non-stop flight over the Atlantic Ocean?

ANSWER: Charles Lindbergh

8. This musical composition was orchestrated by Ferde Grofe, and it was premiered by Paul Whiteman’s Band at Aeolian Hall for a concert entitled “An Experiment in Modern Music.” After opening with a trill, Ross Gorman improvised a seventeen-note clarinet glissando during this composition. For 10 points, identify this “Jazz Concerto” by George Gershwin that contains a color in its title.

ANSWER: Rhapsody in Blue

BONUS: Identify some philosophers for 10 points each:

[10] This ancient Greek philosopher wrote about the components of tragedy and other dramas in *Poetics* and tutored Alexander the Great.

ANSWER: Aristotle

[10] Many of this ancient Chinese philosopher's sayings were collected in the *Analects*. This man founded a school of philosophy that centered family and loyalty that is still followed in China today.

ANSWER: Confucius (accept Confucianism)

[10] This German philosopher proposed the idea of an "ubermensch" or "superman" in *Thus Spoke Zarathustra*, in which he also reiterated his most famous statement, "God is dead"

ANSWER: Friedrich Nietzsche

9. **These people attacked Gaul, but were defeated by Flavius Aetius at the Battle of Chalons. One leader of these people was known as the "Scourge of God" to the Romans. Rugila was the father of one leader of these people who potentially killed his brother, Bleda. For 10 points, Attila lead what Asian group of nomads who Mulan supposedly fought against?**

ANSWER: Huns

BONUS: After the protagonist of this novel is disturbed at burning an old woman's books, the Mechanical Hound begins investigating him. For 10 points each:

[10] After learning to think critically from Clarisse McClellan, Guy Montag decides to pursue a life with exiled book lovers in what dystopian novel?

ANSWER: Fahrenheit 451

[10] *Fahrenheit 451* is by what science fiction author of *The Martian Chronicles* and *The Illustrated Man*?

ANSWER: Ray Bradbury

[10] At one point in the novel, Guy reads this Matthew Arnold poem to his wife and her friends despite poetry being outlawed. This poem, named for an English port town, begins "the sea is calm tonight."

ANSWER: "Dover Beach"

10. **Eurycleia discovers this man's true identity from a scar on his leg. This man's crew kill cattle sacred to Helios, and he calls himself nobody in order to trick the cyclops Polyphemus. This father of Telemachus slays the suitors that have invaded his home to woo his wife Penelope. For 10 points, identify this cunning Greek warrior who is the subject of an epic by Homer.**

ANSWER: Odysseus

BONUS: Identify the following levels of the atmosphere. For 10 points each:

[10] The Aurora Borealis occurs in what layer of the atmosphere that is located below the exosphere.

ANSWER: Thermosphere

[10] Meteors fall in what level of the atmosphere that includes the Ozone layer?

ANSWER: Stratosphere

[10] What "sphere" is found between the Thermosphere and the Stratosphere?

ANSWER: Mesosphere

11. In one movie named for this character, the “Phantom Virus” is transferred into the real world. In another movie named for this character, he works with the “Boo Brother.” This character’s cousin is Scrappy, and this character defeated the Evil one and Professor Pericles in the series, *Mystery Incorporated*. For 10 points, what talking dog is the companion to Fred, Daphne, Velma, and Shaggy?

ANSWER: Scooby-Doo

BONUS: Identify these countries from a landmark located there, for 10 points each.

[10] Ayers Rock and the Sydney Opera House

ANSWER: Australia

[10] Big Ben and Buckingham Palace

ANSWER: England OR Great Britain

[10] Trans-Siberian Railroad and the Kremlin

ANSWER: Russia

12. This author wrote a novel in which Winnie attempts to befriend the African American Garber family, despite neighbors posting a racist sign telling the Garbers to “Go back where you belong!” In addition to *Iggie’s House*, this author wrote a novel in which Jill faces the consequences of bullying Linda, who earned the title nickname after doing a report on whale fat. In another novel, this author wrote about Margaret Simon praying the title phrase. What author wrote young adult book such as *Blubber* and *Are You There God? It’s Me Margaret?*

ANSWER: Judy Blume

BONUS: Answer the following about the women’s suffrage movement in the United States. For 10 points each:

[10] Women gained the right to vote in the United States as the result of what Constitutional amendment?

ANSWER: 19th Amendment

[10] What early leader for women’s suffrage was the first female to be featured on US currency?

ANSWER: Susan B. Anthony

[10] Susan B. Anthony and Lucretia Mott organized what New York convention that was the first convention to focus on women's rights?

ANSWER: Seneca Falls Convention

13. This compound’s concentration is the subject of the Keeling Curve, and RuBisCo acts upon this compound in the Calvin Cycle. This compound has a linear structure with one hundred eighty degree bond angles, and combustion reactions produce water and this compound. For 10 points, dry ice is the solid form of what compound with formula C-O-2?

ANSWER: Carbon Dioxide

BONUS: Works in this literary genre typically include fantasy creatures like dragons, elves, or giants and take place “once upon a time.” For 10 points each:

[10] What literary genre is exemplified by stories such as “The Princess and the Pea” and “Thumbelina”?

ANSWER: fairy tales

[10] “The Princess and the Pea” and “Thumbelina” were two fairy tales by this Danish author, who also wrote “The Emperor’s New Clothes” and “The Ugly Duckling.”

ANSWER: Hans Christian Andersen

[10] The title character of this fairy tale is awarded with an immortal soul when she chooses not to kill the prince, even though she had traded her voice for a pair of legs so she could be with him.

ANSWER: “The Little Mermaid”

14. In one work by an author from this country, Saleem Sinai and Shiva of the Knees are two of the magical group born at the exact moment of this country’s independence. In addition to *Midnight’s Children*, another book set in this country includes a story in which the title mongoose kills the cobra Nagaina. That book contains stories featuring Rikki-Tikki-Tavi and the orphan Mowgli. The author of *The Jungle Book*, Rudyard Kipling, was born in what country’s city of Bombay?

ANSWER: India

BONUS: For 10 points each, answer these questions about Hurricane Harvey relief efforts.

[10] What national humanitarian organization was taking \$10 donations to Harvey relief efforts by having individuals text “HARVEY” to 90999?

ANSWER: American Red Cross

[10] What large retailer that is headquartered in Bentonville, Arkansas donated \$20 million to relief efforts in the aftermath of the hurricane?

ANSWER: Wal-Mart

[10] What pastor of the Lakewood Church in Houston was criticized by some for not opening his church’s doors to victims in the aftermath of hurricane flooding?

ANSWER: Joel Osteen

15. This composer included the movements, “La Rejouissance” and “La Paix” in his suite, *Music for the Royal Fireworks*, and he featured an “Alla Hornpipe” movement in his composition, *Water Music*. George II stood during the “For he shall reign for ever and ever” section of this man’s most famous work. For 10 points, what composer included the “Hallelujah Chorus” in his oratorio, *Messiah*?

ANSWER: George Frederick Handel

BONUS: Identify the following scientific measuring tools. For 10 points each:

[10] Mass can be measured on what type of tool that comes in a triple beam variety?

ANSWER: Balance (accept scale)

[10] What type of tool can be used to measure a liquid’s volume and comes in a “graduated” type.

ANSWER: Cylinder

[10] Robert Bunsen developed what tool used to heat up a mixture with hydrogen gas?

ANSWER: Burner

16. This law was the subject of the Supreme Court cases *King v. Burwell* and *Burwell v. Hobby Lobby*. The Supreme Court upheld a portion of this law as a Constitutionally protected tax, while also ruling that states could not be forced to amend Medicare. Identify this law that was the subject of the case *NFIB v. Sebelius*, a 2010 piece of legislation that extended health care to all Americans.

ANSWER: *Patient Protection and Affordable Care Act* OR *Obamacare*

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

[10] All computers have a certain amount of what kind of memory that allows its users to retrieve data?

ANSWER: Random Access or RAM

[10] What kind of “board” includes the CPU, memory, and connectors of a computer? These boards can be found in most electronics

ANSWER: Motherboard

[10] In order to protect against spyware and ransomware, many users will install programs protecting against what damaging software?

ANSWER: Malware (Accept specifics such as “trojans,” “viruses,” “worms,” etc.)

17. One hero from this country’s myth system defeated the fire breathing Aileen and met his future wife in the form of a deer after having burnt his thumb on the Salmon of Knowledge. Many stories from this country’s mythology are collected in the Fenian and Ulster cycles. At the behest of Queen Medb, one hero from this country led the Cattle Raid of Cooley. For 10 points, name this island nation, home to Finn MacCool and Cu chulainn.

ANSWER: Ireland

BONUS: This poet wrote of a man who heard “the women come and go, talking of Michelangelo” in “The Lovesong of J. Alfred Prufrock.” For 10 points each:

[10] Name this British-American poet who created the characters Macavity and Old Deuteronomy for another work.

ANSWER: T. S. Eliot

[10] The characters Macavity and Old Deuteronomy appear in Eliot’s work *Old Possum’s Book of Practical* [these animals]. Andrew Lloyd Webber wrote a musical about these animals that was based on the Eliot work.

ANSWER: cats

[10] This poem by T. S. Eliot mentions characters such as Madame Sosostris, Phlebas the Phoenician, and Tiresias and begins with the line “April is the cruellest month.”

ANSWER: “The Waste Land”

18. This modern day state was the site of the Battle of Guilford Courthouse and this modern day state was home to the first baby born in the Americas, Virginia Dare. When settlers re-visited a colony in this modern day state, they found no people, but only the word “Croatoan” carved into a tree. The lost colony of Roanoke was in, for 10 points, what state whose capital city is named for Sir Walter Raleigh?

ANSWER: North Carolina

BONUS: This composer created a “Great” and a “Little” Symphony in G minor. For 10 points each:
[10] Identify this composer who had a feud with Antonio Salieri and wrote the opera *Don Giovanni*.

ANSWER: Wolfgang Amadeus **Mozart**

[10] In his lifetime, Mozart created 41 symphonies. The last of his symphonies was given what planetary name?

ANSWER: Jupiter Symphony

[10] Franz Sussmayr completed Mozart’s D minor work of what type? This name is given to any composition that is a mass for the dead.

ANSWER: Requiem

19. **Examples of these constructs like Haskell are considered functional because they consider these objects as functions in a mathematical expression. Different paradigms surrounding these objects include dynamic, exemplified by Python and object oriented, like Java.** For 10 points, name these constructs which are a set of instructions to produce various types of output.

ANSWER: Programming Languages

BONUS: St. Peter was the first holder of this position. For 10 points, each:

[10] What title is given to the head of the Catholic Church?

ANSWER: Pope

[10] What is the name of the current Pope who originally hailed from Argentina?

ANSWER: Francis

[10] The Pope wears what piece of ceremonial jewelry that is called “of the Fisherman?”

ANSWER: Ring

20. **Large values of these expressions can be found using the Stirling approximation, and this operation can be found in the denominator of the Taylor Series polynomial for the function, e to the x. This is the fastest growing function, and this operation is used in combinations and permutations.** This operation applied to 3 returns 6, and this operation applied to 4 equals 24. For 10 points, what operation is represented by an exclamation point?

ANSWER: Factorials

BONUS: This man was the husband of Andromeda. For 10 points each:

[10] What Greek hero’s mother was Danae? This figure notably killed the Gorgon Medusa.

ANSWER: Perseus

[10] Perseus was able to kill Medusa by using what object as a mirror?

ANSWER: Shield

[10] In another story, Perseus stole what body part that was shared by the Three Grey Sisters?

ANSWER: eye

TB: **The Pigouvian form of these objects are used to counteract negative externalities, while Henry George proposed creating one of these that applies to all unused land. The Laffer curve plots government spending against the revenue from the objects, which when placed on imports and exports are called tariffs.** For 10 points, identify these money generating objects which come in sales and property varieties.

ANSWER: Tax