

**NMMS (Northmont Middle School)**  
**Round Six**

**Packets by: David Jones, Emily Bingham, Kara Combs**

**1. This event was supported by Cotton Mather who wrote *Wonders of the Invisible World* about it. During this event, several participants made use of “spectral evidence,” and the first person accused during this event was a slave named Tituba. Abigail Williams was one of the five girls who accused Massachusetts townspeople in this event. For 10 points, identify this 1692 event that saw the deaths of John Proctor and Giles Corey.**

**ANSWER: Salem witch trials**

**BONUS:** Johann Strauss the Younger was known as the “King” of this type of dance. For 10 points each:  
[10] Identify this kind of formal ballroom dance that is normally marked in three four time?

**ANSWER: Waltz**

[10] Often broadcast on New Year’s Eve is what Johann Strauss waltz which is named for a “blue” river that runs through Vienna?

**ANSWER: *The Blue Danube***

[10] What waltz by Frederic Chopin actually takes around ninety seconds to play rather than the title amount of time?

**ANSWER: Minute Waltz**

**2. This region has the Hexi Corridor on its southwestern boundary, and the only desert dwelling bear, the Mazaalai, resides here. The Alashan Mountains are located in this desert that has the Taklamakan Desert to its west, is home to the Bactrian camel, and has the Altai Mountains to its north. This desert contains the city of Ulan Bator and is shadowed by the Tibetan Plateau. For 10 points, what desert covers northern China and southern Mongolia?**

**ANSWER: Gobi Desert**

**BONUS:** Answer the following about transcription for 10 points each:

[10] Transcription uses DNA to create a “messenger” version of what other nucleic acid?

**ANSWER: RNA**

[10] Transcription, which includes the splicing of exons, occurs in what organelle? It’s considered to be the “brain” of the cell.

**ANSWER: Nucleus** (Do not accept “Nucleolus”)

[10] Reverse transcription occurs in the retro- versions of what infective agents that commonly lead to diseases?

**ANSWER: Virus**

**3. This fictional character writes *Why, I Believe I Have Become Even More Handsome* and *The Marvellous Marriage* under the pseudonym Al Funcoot. While working for Prufrock Preparatory School under the alias Coach Genghis, this character uses tennis shoes to cover his tattoo of the VFD eye. In this character’s first appearance in *The Bad Beginning*, he attempts to trick Violet Baudelaire into marrying him to inherit her and her siblings’ fortune. Lemony Snicket created what villain of *A Series of Unfortunate Events*?**

**ANSWER: Count Olaf**

**BONUS:** Answer the following about current Disney Channel shows. For 10 points each:

[10] What Disney TV show's themes song begins, "One hundred and four days of summer vacation..." and focuses on the two title brothers?

**ANSWER:** Phineas and Ferb

[10] What psychic woman began a second spin-off of her original show, which is titled for her home?

**ANSWER:** Raven

[10] What celebrity starred as Rocky Blue in *Shake it Up* and currently, is the main character in *K.C. Undercover*?

**ANSWER:** Zendaya

4. Authors from this location published a literary magazine called *Fire!!* which contained poems by Countee Cullen and Zora Neale Hurston. In a poem named for this location, the speaker asks "What happens to a dream deferred?" and wonders "Does it dry up like a raisin in the sun?" That poem was written by Langston Hughes, a lead author in a literary "Renaissance" named for this location. Name this New York location, home to many Black poets and artists in the 1920s.

**ANSWER:** Harlem or the Harlem Renaissance (prompt on less specific answers like New York or Manhattan)

**BONUS:** Identify these mythological creatures, for 10 points each.

[10] What figures from mythology have the upper body of a human and the lower body of a horse?

**ANSWER:** Centaurs

[10] Argos and Brontes are examples of what group of one-eyed monsters in Greek mythology?

**ANSWER:** Cyclopes

[10] Medusa is an example of what type of mythological monster that has snakes for hair?

**ANSWER:** Gorgons

5. The International Astronomical Union recognizes 88 of these entities, the largest of which is named for the Hydra. Another of these objects depicts the hunter Orion, while a bull representing Taurus is among the twelve zodiac examples of these entities. For 10 points, the "Big Dipper" and "Little Dipper" contain what collections of stars?

**ANSWER:** Constellations

**BONUS:** Identify the following Civil War Battles. For 10 points each:

[10] Pickett's Charge took place at what Pennsylvania battle that also names an "Address" by Abraham Lincoln that opens "Four score and seven years ago..."?

**ANSWER:** Battle of Gettysburg

[10] P.G.T. Beauregard led the assault on what South Carolina fort? The assault on this fort is considered to be the first battle of the Civil War.

**ANSWER:** Fort Sumter

[10] After the bloodiest battle of the civil war, the Battle of Antietam, Abraham Lincoln issued what executive order that freed slaves held in southern states?

**ANSWER:** Emancipation Proclamation

6. **This man came to power during the Beer Hall Putsch, and under this man's leadership, Ernst Rohm led the SA. This man's secret police were called the Gestapo and under this man's leadership, his country annexed the Sudetenland from Czechoslovakia. For 10 points, what author of *Mein Kampf* led Nazi Germany during World War II?**

ANSWER: Adolf Hitler

**BONUS:** Name some literary detective series, for 10 points each:

[10] The title characters of this series, Frank and Joe, solve mysteries in novels such as *The Arctic Patrol*, *Mystery* and *The Tower Treasure*.

ANSWER: *The Hardy Boys*

[10] This character was created as a counterpart to Frank and Joe Hardy and stars in her own series, including *The Secret of the Old Clock*. The series featuring this character was pseudonymously written under the name Carolyn Keene.

ANSWER: Nancy Drew

[10] This mystery-solving mouse "of Baker Street" lives in the cellar of Sherlock Holmes' house. This character's arch-nemesis is the criminal genius Ratigan.

ANSWER: Basil of Baker Street

7. **After consulting the Oracle at Delphi, this man's father bound his hands and ankles and left him to die on Mount Cithaeron; this man, raised by King Polybus and Merope, later killed his father while travelling from Corinth. This father of Ismene and Antigone blinds himself upon the realization that he slept with his mother Jocasta. For 10 points, identify this doomed king of Thebes.**

ANSWER: Oedipus

**BONUS:** Answer the following Biblical questions with a common link, for 10 points each:

[10] What Biblical figure is the husband of Mary, the mother of Jesus?

ANSWER: Joseph

[10] In the Old Testament, Joseph was sold into slavery by his brothers due to having what multi-colored article of clothing?

ANSWER: Coat

[10] **Description acceptable.** Joseph of Arimathea allowed Jesus to use what object after the crucifixion?

ANSWER: tomb (accept similar answers)

8. **The universal constant for this quantity is equal to 6.67 times 10 to the negative 11, and Galileo showed that this quantity is constant regardless of mass when he dropped two balls from the Leaning Tower of Pisa. This constant for Earth is around 9.8 meters per second. For 10 points, identify this force that pulls downward on all objects.**

ANSWER: Gravity

**BONUS:** Identify the following Supreme Court Chief Justices who are all named John. For 10 points each:

[10] What man served as the first Supreme Court Justice, and negotiated a namesake treaty with Great Britain?

**ANSWER:** John Jay

[10] What man presided over the case, *Marbury v. Madison*, and is the longest serving Supreme Court Chief Justice?

**ANSWER:** John Marshall

[10] What man is serving as the current Supreme Court Chief Justice?

**ANSWER:** John Roberts Jr.

9. **One composer with this last name wrote an opera about the Trinity test entitled *Doctor Atomic*, and included the “Chairman Dances” in another opera. Another man with this last name photographed El Capitan and Moon and Half Dome at Yosemite National Park. For 10 points, *Nixon in China* composer John and photographer Ansel share what last name with the second US President?**

**ANSWER:** Adams (accept “John Adams” or “Ansel Adams”)

**BONUS:** Name some Shakespeare plays for 10 points each.

[10] The title prince of this tragedy stages a play during which he tries to make Claudius confess to killing his father before marrying his mother Gertrude. He also gives the “to be or not to be” soliloquy.

**ANSWER:** *The Tragedy of Hamlet, Prince of Denmark*

[10] The title star-crossed lovers of the Capulet and Montague families end up killing themselves in part because their families will not let them be together in this famous play.

**ANSWER:** Romeo and Juliet

[10] With the help of the servant sprite Ariel, Prospero conjures the title storm to enact revenge on his brother Antonio in this play.

**ANSWER:** *The Tempest*

10. **During this movement, one thinker wrote about how citizens agree to give up some rights in order to be governed fairly in *The Social Contract*. Another thinker from this movement proposed that the mind was a *tabula rasa* or “blank slate” upon which experiences were etched. Those thinkers, Jean-Jacques Rousseau and John Locke, were known as philosophes and would gather in salons to spread their ideas. Name this philosophical movement in 18th century Europe that centered progress, rationality, and reason.**

**ANSWER:** the Age of Enlightenment (accept Age of Reason before “reason” is read)

**BONUS:** Answer the following questions about the electromagnetic spectrum, for 10 points each:

[10] On the electromagnetic spectrum, what phenomenon can be seen from around 400 nanometers to 740 nanometers? Examples of this phenomenon are often abbreviated ROY G BIV.

**ANSWER:** colors or visible light

[10] What form of electromagnetic radiation occurs at frequencies from 10 nanometers to one hundredth of a nanometer? These phenomena were discovered by Wilhelm Roentgen.

**ANSWER:** X-rays

[10] What type of electromagnetic radiation has wavelengths greater than that of infrared light?

**ANSWER:** Radio

11. **One king with this name gave religious freedom to Huguenots in the Edict of Nantes. Another king with this name issued the 1534 Act of Supremacy which allowed himself to become the head of the Church of England.** That aforementioned king with this name beheaded his second wife, Anne Boleyn, and attempted to annul his marriage to Catherine of Aragon. For 10 points, what name belongs to a king of England who had six wives?

**ANSWER: Henry**

**BONUS:** Identify these mythological groups, for 10 points each.

[10] Megaera is one of what trio of mythological figures from Greek mythology who serve as the personification of vengeance?

**ANSWER: Furies**

[10] Clotho, Lachesis, and Atropos comprise what trio from Greek mythology who serve as the personification of destiny?

**ANSWER: Fates**

[10] Thalia is one of what trio of mythological figures from Greek mythology who serve as the personification of charm, beauty and nature?

**ANSWER: Graces**

12. **This character tours an academy in which researchers are attempting to extract light from cucumbers and identify the smells of colors. After a brief visit to Japan, a mutiny lands this character on the island of horses that enslave humans.** On this character's first adventure, he refuses to fight the tiny Blefuscudians, losing him the trust of the tiny residents of Lilliput. What character's *Travels* were written about by Jonathan Swift?

**ANSWER: Lemuel Gulliver**

**BONUS:** In this artist's most famous work, he featured a light bulb in the shape of an eye, and a horse with a knife for a tongue, for 10 points each:

[10] What painter depicted the bombing of a Basque town in his painting, *Guernica*?

**ANSWER: Pablo Picasso**

[10] Pablo Picasso, the artist of *Guernica*, co-founded what art movement with George Braque?

**ANSWER: Cubism**

[10] Picasso painted *Boy with a Pipe* during which of his artistic periods that is named for a flower?

**ANSWER: Rose**

13. **This organ is divided by the Falciform ligament, and excessive alcohol consumption can lead to inflammation or scarring of this organ in hepatitis and cirrhosis. Dysfunction of this organ is popular in babies and leads to a yellow-skin tone known as jaundice.** For 10 points, identify this largest internal organ that removes toxins from blood.

**ANSWER: Liver**

**BONUS:** Identify these European capital cities, for 10 points each.

[10] A 1755 earthquake devastated what capital city of Portugal?

**ANSWER: Lisbon**

[10] A period known as “The Troubles” affected what capital city of Northern Ireland?

**ANSWER: Belfast**

[10] Belfast is located just 100 miles north of what city that is the capital of Ireland?

**ANSWER: Dublin**

14. **This artist created a 1750 painting of a couple looking at the viewer entitled *Mr. and Mrs. Andrews*. A painting by Thomas Lawrence entitled *Pinkie* sits across from another painting by this rival of Joshua Reynolds. That painting by this artist depicts Jonathan Buttall holding a feathered hat in his right hand while resting his left hand on his waist. Identify this British painter of *The Blue Boy*.**

**ANSWER: Thomas Gainsborough**

**BONUS:** Name some literary devices used in poetry, for 10 points each:

[10] This technique involves the use of repeating sounds at the beginning of two or more words in a row, such as in “We strike straight” in Gwendolyn Brooks’s poem “We real cool.”

**ANSWER: Alliteration**

[10] This device makes a comparison using the word “like” or “as” such as in “the sky above my head became like a casque of burning steel” in Oscar Wilde’s “The Ballad of Reading Gaol.”

**ANSWER: Simile**

[10] This term refers to the rhythm of a line of poetry, which can be iambic, trochaic, or dactylic, depending on the number of syllables and which syllables are stressed.

**ANSWER: Meter**

15. **One character on this show gets back together with Dylan after Andy proposes to Beth. Another character on this show has a rivalry with a business called Closets Closets Closets Closets. Sofia Vergara appears on this show as Gloria, the wife of Jay Pritchett. Identify this ABC comedy that centers on the extended clan of Claire and Phil Dunphy.**

**ANSWER: Modern Family**

**BONUS:** This Greek city state built the Long Walls between its territory and that of Piraeus. For 10 points each:

[10] What city state experienced a “Golden Age” under its ruler Pericles?

**ANSWER: Athens**

[10] Athens fought what militaristic Greek city-state in the Peloponnesian War?

**ANSWER: Sparta**

[10] After the Peloponnesian War ended, Sparta instituted an oligarchy consisting of thirty of what kinds of rulers?

**ANSWER: Tyrants (Prompt on “Dictators”)**

16. **Members of this religion can be initiated through the Khalsa ceremony, and the “kanga” and “kesh” are two of this religion’s five K’s. The Golden Temple in Amritsar is sacred to this faith which was founded by the Guru, Nanak Dev. For 10 points, the Adi Granth is the holy text of what Indian religion popular in the Punjab region?**

**ANSWER: Sikhism**

**BONUS:** These phenomenon are assumed to have a negligibly small volume and no forces acting on their molecules while they are in motion. For 10 points each:

[10] What “Ideal” substances are governed by the law  $P V$  equals  $n R T$ ?

**ANSWER:** gases

[10] In the equation,  $P V$  equals  $n R T$ ,  $P$  stands for what quantity which is measured in Pascals? This quantity measures how much force is exerted on an object.

**ANSWER:** Pressure

[10] When using the ideal gas equation, one must convert the number of atoms or particles into moles, using what man’s number that is equal to  $6.02 \times 10^{23}$ ?

**ANSWER:** Amedeo Avogadro

**17. This country fought alongside Argentina and Uruguay against Paraguay in the War of the Triple Alliance. Slavery was first outlawed in this country with the 1888 Golden Law. This country was divided in the Treaty of Tordesillas between Spain and Portugal. For 10 points, identify this South American country that is home to the cities of Sao Paulo and Rio de Janeiro.**

**ANSWER:** Brazil

**BONUS:** The mathematical text, *Elements*, consists of 13 books of these constructs. For 10 points each:

[10] Identify these mathematical constructs which are defined as the process by which a theorem can be confirmed.

**ANSWER:** proofs

[10]The aforementioned text, *Elements*, was written by what mathematician who has a namesake algorithm?

**ANSWER:** Euclid

[10] Euclid is considered to be the father of what branch of mathematics concerned with the relations and properties of points, circles, and lines?

**ANSWER:** geometry

**18. In one work by this author, the title character descends to the underworld to consult Elpenor, Tiresias, and his mother, from whom he finds out about the suitors who have been wooing Penelope in his home. In another work by this author, the slaying of Hector and refusal to fight alongside Agamemnon are examples of the “rage of Achilles.” Epic poems about the participants of the Trojan War, *The Iliad* and *The Odyssey*, are attributed to what blind Greek poet?**

**ANSWER:** Homer

**BONUS:** Identify the following layers of the Earth. For 10 points each:

[10] What is the outermost layer of the Earth that partially makes up the lithosphere?

**ANSWER:** Continental Crust

[10] What layer of the earth is bounded on the bottom by the D double prime layer? It is the thickest layer.

**ANSWER:** Mantle

[10] Iron and Nickel are in their liquid states in what layer of the Earth?

**ANSWER:** Outer Core (Do not accept or prompt on “Inner Core”; prompt on “core” alone)

19. **One form of this scientific property can be found multiplying mass, gravity, and height. Another form of this property can be found using the equation “one half multiplied by mass times velocity squared”. Those aforementioned types of this quantity are potential and kinetic. This quantity is measured in Joules. For 10 points, identify this scientific quantity that comes in renewable and nonrenewable types.**

**ANSWER: Energy**

**BONUS:** Answer some questions about literary rodents, for 10 points each:

[10] The rats of this location are able to read, write, and utilize technology like electricity and are thus able to help the title character in the book *Mrs. Frisby and the Rats of this place*.

**ANSWER: NIMH** (accept National Institute of Mental Health)

[10] The title mouse of this Kate DiCamillo novel uses his sewing-needle sword to help rescue Mig and Princess Pea from a castle dungeon.

**ANSWER: The Tale of Despereaux**

[10] In this Daniel Keyes story, the title rat loses the intelligence it gained from some IQ experiments, which foreshadows Charlie's short-lived intelligence as well.

**ANSWER: “Flowers for Algernon”**

20. **A “rainbow” one of these creatures is central to the myth system of the Aborigine people, and Aaron's staff turned into one of these animals once it touched the ground. This animal was cursed to crawl on its belly after tempting Eve to eat the fruit from the Tree of Good and Evil. Gorgon's hair are made out of, for 10 points, what creatures that include boa constrictors and pythons?**

**ANSWER: Snakes or Serpents**

**BONUS:** This country was led by Kwame Nkrumah. For 10 points each:

[10] Identify this African country, formerly known as the “Gold Coast,” whose capital is Accra.

**ANSWER: Ghana**

[10] The Ghana Empire preceded what other African empire which shares its name with a present day country with capital at Bamako?

**ANSWER: Mali**

[10] Mansa Musa, a leader of Mali, devalued the price of gold while on a voyage to Mecca. What name is given to the pilgrimage to Mecca that Muslims must perform.

**ANSWER: Hajj**

TB: **During this man's presidency, his secretary, Orville Babcock, was arrested in the Whiskey Ring scandal. While running for a second term, this defeated Horace Greeley. This man's vice president was Schuyler Colfax who was involved in the Credit Mobilier scandal. For 10 points, what man earned his nickname “Unconditional Surrender” while serving during the US Civil War?**

**ANSWER: Ulysses S. Grant**