

FROSHMORE CHAMPIONSHIPS

Round Two

Read only for Round Two

Officials Checklist and reminders:

- 1.) Review this checklist and reminders document and the rules flow chart. _____
- 2.) Pencils and fresh scratch paper for each participant _____
- 3.) Timer instructions _____
- 4.) Identify the head coach for each team. _____
- 5.) Identify the team captain. _____
- 6.) Review the pumpnickel rule _____

Accept only the answer to the bonus question that comes from the captain.

The captain may defer to another team member to give the answer to the bonus question.

If you want them to indicate a deferral in a specific way – tell them at the beginning of the match. “If you are going to defer on a bonus question, please do so by”

Coaches may use an ipad or table to keep score (I've sent out an excel score sheet) They may not use their ipad, phone or other technology to look up answers, send or received text messages or emails or to make calls during competition.

Before you begin, remind students that on a toss-up question they must buzz-in and be recognized before giving the answer and that they may NOT confer on a toss-up. You may only confer on a bonus question.”

When you read a toss-up question – identify the subject, then read the question.

If the team member buzzes-in before the question is completed and the answer is incorrect, say ‘incorrect, I will finish the question’ then finish reading the question.

If you have finished reading the question when the first team buzzes-in and gives an incorrect response say ‘incorrect,’ look at the second team call them by team name and say ‘_____ I have finished the question’

If the time has expired, their response should be to immediately buzz-in to be recognized. If there is still time (5 seconds for a regular question 15 on a math computation) they have the remaining time to buzz.

If the toss-up question is not answered correctly by either team, give the correct answer. Do NOT read the bonus question, go on to the next toss-up. **If you need a replacement question for this subject, you may use the unused bonus.**

The first time you read a bonus question for each team say ‘Here is your bonus question, you do not need to buzz-in. Remember you may confer on this question, and I will take the answer from the team captain.’

There is NOT a penalty for buzzing during a bonus question.

When the time for conferring has expired (10 seconds – 15 on math or science computation) **call for the answer.** Say, ‘Captain?’ or ‘answer please’ (or something similar). If they do not give you an immediate answer say ‘time’ and give the correct answer.

There is no limit to the number of team members a team substitutes.

On a toss-up question, do not give the correct response until you have given both teams an opportunity to answer the question.

Leading articles such as “the,” “an,” and “a” are not required (e.g., Tale of Two Cities is an acceptable answer for The Tale of Two Cities). However, if an article is given, it must be the correct one.

Plural/Singular answers are acceptable unless otherwise delineated.

Last names are acceptable, except where there is more than one common person in the same field.

Prompt for more information by saying – ‘more’ or ‘more specific’.

Questions requiring additional computation time (15 seconds) have computation in the subject line - MATH COMPUTATION: or SCIENCE COMPUTATION: or BONUS COMPUTATION: (If it needs it and we forgot it, add it!)

Math or Science questions that do not require computation and receive regular question time (5 for toss-up and 10 for bonus) do not have computation in the subject line - MATH: or SCIENCE: or BONUS

Explain the addition of the word Computation to the timer and the team at the beginning of the tournament. After the first question containing COMPUTATION: You may choose to say only Computation if you wish.

Give your stall count before the game starts. A stall count is the amount of time allowed for the student to begin their answer once you've called on them. "My stall count is _ _ _." Fill in the blanks with your count. Do you count 1, 2, stall? 1, 2, 3, stall? Do you say stall on the upbeat of the 3rd second or the downbeat? My preference is you count 1(1001), 2(1002), 3(1003) with stall being called on the downbeat of 3. (Down beat being the end of the 1003 with 100stall. You do not have to say the 1000 or the second 1, 2 or 3 out loud. You do need to make some type of physical indication - head nod, hand count (like a basketball referee counting the backcourt) even a foot tap. But do something so the student can see the seconds slipping away. This also helps with consistency. Neither team can say the other team received more time before a stall was called. When an immediate answer is expected 1 second is adequate time to allow before a stall is called.

"Welcome to Round ____ of the tournament. I am _____, your moderator. (if you have a judge, timer and scorekeeper, introduce them as well) Our two teams are _____ and _____. Head coaches, will you please stand. A protest may be lodged only by the head coach." (run a buzzer check) "Students, remember, you may not give an answer until you are recognized. If you do so, it will be ruled as an incorrect response, even if your answer is correct. Explain the timing for Math or Science Computation: (see instructions) Good sportsmanship is expected from **all** players, substitutes, coaches, spectators and parents. Except for using the excel spreadsheet to keep score, you may not use computers, smart phones, iPad, etc. during the competition. Turn off all and put away all electronics at this time. (pause) Are there any questions? Let's begin."

- ____ 1. **SCIENCE: This is represented by a lowercase "t" with a subscript of $\frac{1}{2}$.*** It is the time it takes for 50% of a sample of a radioactive substance to decay into a daughter substance. What is this term associated with the Greek letter lamda and radioactive decay?

ANSWER: **Half-life**

BONUS BONUS: The half-life of seaborgium-266 [read as: "see-bor-gee-um-266] is 30 seconds. After how many seconds will only 1/16 of the original sample remain?

ANSWER: **120** (seconds)

- ____ 2. **HUMANITIES: Inti, the patron deity of the Inca Empire, was associated with this entity. The chief deity of *** Shinto is associated with this entity and is Amaterasu. What is this entity, personified in Greek mythology by Helios?

ANSWER: **The Sun**

BONUS BONUS: Chup Kamui is the Sun God of the mythology of what Hokkaido-based indigenous group of Japan?

ANSWER: **Ainu**

- ____ 3. **SOCIAL STUDIES: This policy was advocated for by a women's group led by Frances Willard. Wayne Wheeler pushed for the enforcement of this policy in the *** Volstead Act. The 18th amendment enacted what policy which banned the sale of alcohol?

ANSWER: **Prohibition** (of Alcohol)

BONUS BONUS: What amendment overturned the 18th amendment and ended prohibition?

ANSWER: **21**(st Amendment)

- ____ 4. **MATHEMATICS COMPUTATION: Johnathan rode his bike 10 miles east then went 24 miles south. How many miles is he from his starting point in a direct line?**

ANSWER: **26** (miles)

BONUS BONUS COMPUTATION: Johnathan's pet snail crawled along a counter for 720 centimeters then turned at the corner and went 960 centimeters along that edge. How many centimeters is the snail from it's starting point in a direct line?

ANSWER: **1200** (cm)

- _____ 5. SCIENCE: **This type of movement is in response to the direction of a stimulus,*** such as a leaf turning toward the sunlight or a root seeking the ground while the shoot goes upward. The term come from the Greek meaning "to turn" and is not related to the modern term which refers to a cliché or figure of speech. What is this term that includes roots seeking water?

ANSWER: **Tropism**

BONUS BONUS: Opening a flower in response to light or closing a leaf when a fly steps on it are this type of movement in plants that occurs without regard to the direction of the stimulus. What is the term for this type of response?

ANSWER: **Nastic** (movement) [accept "response" in place of "movement"]

- _____ 6. CURRENT EVENTS: **He received a unanimous vote for the Speaker of the House.*** The Republican legislator is now the House's 56th Speaker. Name the man from Louisiana who now serves after a three-week vacancy.

ANSWER: **Mike Johnson**

BONUS BONUS: Which man was removed as Speaker of the House in October 2023?

ANSWER: **Kevin McCarthy**

END OF FIRST QUARTER

The score at the end of the first quarter is
Team one _____ Team two _____

Are there any questions?

(pause and look at the coaches if there are no protests proceed)

"Coaches... you may substitute if you wish."

- _____ 7. FINE ARTS: **The title character of this opera is first introduced with an aria commonly called Habanera. This opera follows the downfall of the * Corporal of the Dragoons** Don Jose after his seduction by the title Romani woman. The Toreador song appears in what opera by Bizet?

ANSWER: **Carmen**

BONUS BONUS: In *Carmen*, the Toreador song is performed by what character, a bullfighter?

ANSWER: **Escamillo**

- _____ 8. SOCIAL STUDIES: **The last confirmed kill via longbow took place during this war. Battles in this war included the Battle of Kursk which occurred during *** Operation Barbarossa. What is this war in which the Allied Powers fought the Axis Powers?

ANSWER: **World War II**

BONUS BONUS: What was the Allied operational name for the Battle of Normandy which included the D-Day invasion?

ANSWER: **Overlord**

_____ 9. MATHEMATICS COMPUTATION: What is the Roman Numeral for 2089?

ANSWER: **MMLXXXIX**

BONUS BONUS COMPUTATION: What is the sum of these two Roman Numerals? CCXLIII + CDXCIV. Give your answer as a Roman Numeral.

ANSWER: **DCCXXXVII** [CCXLIII = 243; CDXCIV = 494; 243 + 494 = 737 = DCCXXXVII]

_____ 10. SCIENCE: **Also called "water silk" and "mermaid's tresses," this is a genus in the kingdom Plantae.*** Its name comes from the helical arrangement of chloroplasts in the plant's filaments. What is this aquatic genus also known as blanket weed?

ANSWER: **Spirogyra**

BONUS BONUS: This is a general term that encompasses most aquatic organisms that photosynthesize. It includes both plants and bacteria. What are these green organisms commonly called?

ANSWER: **Algae**

_____ 11. LITERATURE: **The most famous type of these is the hero.*** Other types include the trickster and the anti-hero. What is an idea, symbol, patter, or character type in a story that appears again and again in stories from cultures around the world?

ANSWER: **archetype**

BONUS BONUS: What is the term for a character who is blamed for everything that goes wrong, who must ultimately be sacrificed or driven away?

ANSWER: **scapegoat**

_____ 12. SOCIAL STUDIES: **This conflict began in 1969 with the Bogside Riot. During this conflict, Bobby Sands was elected to British Parliament while imprisoned at * H-Block** where he later died. What is this religious nationalist conflict fought between groups including the Ulster Defense Association and the Irish Republican Army?

ANSWER: (The) **Troubles** [accept Northern Ireland Conflict before the word "Irish"]

BONUS BONUS: The Royal Ulster Constabulary fought alongside British troops during the troubles and were descended from the Royal Irish Constabulary who were commonly known by what two colors?

ANSWER: **Black and Tans**

END OF FIRST HALF

The score at the end of the first half is

Team one _____ Team two _____

Are there any questions?

(pause and look at the coaches if there are no protests proceed)

"Coaches... you may substitute if you wish."

- _____ 13. POP CULTURE: **Gamers will soon be able to pull off new elaborate heists and drag race*** in exotic cars in a brand-new environment. The maker of this game said the sixth installment is coming soon. Name the game where the fifth installment was released in 2013.

ANSWER: **Grand Theft Auto**

BONUS BONUS: The sixth installment of GTA is set in a fictionalized version of which US city?

ANSWER: **Miami**

- _____ 14. MATHEMATICS COMPUTATION: The United Airlines Flight 253 flies at a bearing of North 60 degrees East at an average speed of 540 miles per hour for three hours. How many miles north of its original starting point is this flight now located?

ANSWER: **810** (miles)

BONUS BONUS COMPUTATION: Using 1.732 for the square root of three, to the nearest mile, how many miles east of the starting point is this flight located?

ANSWER: **1403** (mi)

- _____ 15. SCIENCE: **Maizy the lazy SCIENCE student claims she is not lazy, but she just has this property associated with mass.*** She claims it prevents her from doing things. What is this property of matter that must be overcome to produce or change the motion of an object?

ANSWER: **Inertia**

BONUS BONUS: Inertia is most often associated with this law that states a net force must be applied to change the velocity of an object.

ANSWER: **Newton's First** (Law) (of Motion)

- _____ 16. HUMANITIES: **This country's Power Metal scene includes two bands named for a character from the Japanese Manga Berserk. This country's national epic features the Swan of Tuonela and is * Kalevala.** What is this country, whose pop music scene includes the band Haloo Helsinki?

ANSWER: **Finland**

BONUS BONUS: What Finnish folklorist assembled the stories that comprise the Kalevala?

ANSWER: (Elias) **Lonnrot**

- _____ 17. SOCIAL STUDIES: **This man supported the ascension of the Imperial Rule Assistance Association. This man delivered the Jewel Voice broadcast and his wartime prime minister was * Hideki Tojo.** Who is this man who was the Japanese emperor during World War II?

ANSWER: **Hirohito** [also accept Showa]

BONUS BONUS: Hirohito was largely shielded from war responsibility by the American Occupation of Japan led by what US General?

ANSWER: (Douglas) **MacArthur**

18. MATHEMATICS COMPUTATION: After their lemonade stand closed down for the day, Pete and Logan had 3 five dollar bills, 7 one dollar bills, fifteen quarters, seven dimes, and eight nickels. How many dollars did they make in the lemonade stand that day?

ANSWER: **\$26.85**

- BONUS BONUS COMPUTATION: During the last week, Pete and Logan had collected money in this amount: three more five dollar bills than ten dollar bills and sixteen more one dollar bills than ten dollar bills. They had a total of 52 bills. How many dollars had the boys collected during the last week?

ANSWER: **\$207**

END OF THIRD QUARTER

The score at the end of the third quarter is
Team one _____ Team two _____

Are there any questions?

(pause and look at the coaches if there are no protests proceed)

"Coaches... you may substitute if you wish

19. SOCIAL STUDIES: **This man won the Battle of White Bird Canyon and surrendered after the Battle of Bear Paw. This man led the Wallowa band during the * Nez Perce War.** Who is this Native American leader who delivered the "I Will Fight No More Forever" speech?

ANSWER: **Chief Joseph** [also accept *Hin-mah-too-yah-lat-kekt*]

- BONUS BONUS: During the war, the Nez Perce sought aid from Sitting Bull who had led the Lakota to Canada after what battle which resulted in the death of George Armstrong Custer?

ANSWER: (Battle of the) **Little Bighorn**

20. CURRENT EVENTS: **Exxon Mobil is drilling for this in a move to reposition itself*** for the new era of electric vehicles. The oil giant said it's drilling for this chemical element at a mine in southwest Arkansas. Name the element used to create batteries for electric cars.

ANSWER: **lithium**

- BONUS BONUS: Lithium is used to make the rechargeable batteries needed for the vehicles. What are these batteries called?

ANSWER: **lithium-ion batteries**

21. FINE ARTS: **This artist created several history paintings including *Young Spartans Exercising*. This artist was close friends with the artist of *Little Girl in a Blue Armchair*, * Mary Cassatt.** Who is this French impressionist who painted several depictions of dancers including *The Ballet Class*?

ANSWER: (Edgar) **Degas**

- BONUS BONUS: What painting by Degas shows a woman and man sitting side-by-side drinking the titular beverage?

ANSWER: **L'Absinthe** [also accept *The Absinthe Drinker*, *Glass of Absinthe*, or *Dans un Cafe*]

- _____ 22. **SCIENCE: All the catfish, minnows, algae, and micro-organisms live in Old MacDonald's pond.** What ecological level of organization would this be considered, examining only the living organisms in an ecosystem?

ANSWER: **Community**

BONUS BONUS: Combining all the communities on earth together and including the abiotic factors produces this top-level of organization.

ANSWER: **Biosphere**

- _____ 23. **MATHEMATICS COMPUTATION:** The sum of three consecutive even integers is 132. What are the three integers?

ANSWER: **42, 44, 46**

BONUS BONUS COMPUTATION: The product of two consecutive odd natural numbers is 195. What are the two natural numbers?

ANSWER: **13, 15** [do NOT accept -13, -15]

- _____ 24. **SOCIAL STUDIES: This man saved his army by having them tie torches to their oxen which allowed them to escape Ager Falernus. This general was defeated at the * Battle of Zama by Scipio Africanus.** Who is this Carthaginian general who had earlier won the Battle of Cannae against Rome?

ANSWER: **Hannibal** (Barca)

BONUS BONUS: Hannibal fought in the second of what series of three wars between Rome and Carthage?

ANSWER: **Punic** (Wars)

END OF GAME

The score at the end of the game is

Team one _____

Team two _____

If there is a tie allow for substitution before you ask the tie-breaker questions. Read all 5 questions to determine a winner.

Tie Breakers

SOCIAL STUDIES: Who wrote, "These are the times that try men's souls" in the pamphlet "The American Crisis?"

ANSWER: (Thomas) **Paine**

SCIENCE: This clade consists of all terrestrial and semi-terrestrial organisms descended from lobe-finned fish. Early forms had four limbs for locomotion, hence the name. What is this group?

ANSWER: **Tetrapod**

MATHEMATICS COMPUTATION: What is the least common multiple of 15 and 40?

ANSWER: **120**

LITERATURE: What is a saying, image, or idea that has been used so much that it sounds terribly uncreative?

ANSWER: **cliché**

HUMANITIES: In what novel does the explorer Robert Walton meet the creation of a Swiss scientist? The novel was written by Mary Shelley.

ANSWER: **Frankenstein** (or the Modern Prometheus)

Are there any questions? (pause and look at the coaches if there are no protests proceed)
This ends the game. "