

2015 SAGES: Spring Academic Game for Elementary Students

tournament written by Alex Dzurick, Audrey Bush, Matt Chalem, James Collier, David Dennis, Charles Hang, Sam Haynes, Spencer Johnson, Jason Loy, Ryan Kennedy, Jared Lockwood, Jack Miller, Luke Schuster & Belle Stanfield

Round 6

1. At the end of this book, Mrs. Granger explains that she was only opposing Nick to make his idea more popular, and he sends her a gold pen in return. Nick gets his big idea from an oral report on the dictionary. For 10 points, name this book by Andrew Clements in which Nick invents a new word for pens.

ANSWER: Frindle

2. This mathematical object can be determined by a line and any point not on that line. Two of these together either intersect in a line or are parallel to one another. A pair of coordinates on a Cartesian one of these refers to how far away a point is from the origin. For 10 points, name this flat 2-dimensional surface.

ANSWER: plane [accept Euclidean plane or Cartesian plane]

3. As a general, this president defeated the Shawnee at the Battle of Tippecanoe. This Whig president contracted pneumonia, but not from his inauguration speech in cold, wet weather. For 10 points, name this president who was succeeded by John Tyler after dying after only 32 days in office.

ANSWER: William Henry Harrison [prompt on Harrison]

4. By Ohm's law, this quantity equals voltage divided by current. When this is present in a material, electrical energy is converted into heat. This quantity's inverse is called conductance. For 10 points, name this measure of how much a material opposes electric current, measured in ohms.

ANSWER: electrical resistance

5. A man named John with this last name wrote the Olympic Fanfare. This last name also belonged to Ted, who was an outstanding baseball player for the Boston Red Sox in the 1940s and 1950s. For 10 points, give this last name of tennis-playing sisters Venus and Serena.

ANSWER: Williams [accept John Williams, Ted Williams, or Venus and Serena Williams]

6. This man illustrated many children's books written by Bill Martin, Jr. This man illustrated and wrote *The Grouchy Ladybug* as well as his most famous book about an insect who eats 5 oranges and a pickle before becoming a butterfly. For 10 points, name this illustrator of *The Very Hungry Caterpillar*.

ANSWER: Eric Carle [pronounced *Carl*]

7. This 2013 movie is dedicated to Annette Funicello, who had starred in similar movies in the 1960's. In this movie, a rogue wave sends surfers Brady and Mack into the movie *Wet Side Story*. For 10 points, - Ross Lynch and Maia Mitchell star in what Disney Channel TV movie with the song "Cruisin' for a Bruisin'?"

ANSWER: **Teen Beach Movie**

8. COMPUTATION: Naomi's bottle holds 1,250 milliliters of liquid, and she needs to know how many liters that amount is. She knows that there are 1000 milliliters in a liter and can divide the total by that amount to find out, for 10 points, how many Liters are contained in 1,250 milliliters?

ANSWER: **1.25** Liters [or **one-and-a-quarter** Liters]

9. American Silver Eagles are made at one of these facilities in West Point. Products from one of these facilities in Denver are usually marked with a small letter D. These facilities released quarters for all 50 states and other US territories. For 10 points, name these facilities that produce coins for the US economy.

ANSWER: United States **Mints**

10. This woman once invaded Athena's temple with Poseidon, after which she was cursed. Chrysaor and Pegasus sprang from this Gorgon's neck after Perseus defeated her and cut off her head. For 10 points, name this snake-haired monster of Greek mythology who turned her victims to stone.

ANSWER: **Medusa**

11. The protagonist of this story has his fortune told by Angela and a were-cat named Solembum. This fantasy novel features a boy who discovers a sapphire-colored dragon egg that is highly sought after by King Galbatorix. For 10 points, name this first book in the Inheritance Cycle.

ANSWER: **Eragon**

12. The Flynn effect says that average scores on this test have been rising over time, perhaps due to better nutrition and health. The median score on this test is 100 and most people score between 70 and 130. For 10 points, name this kind of test that you might take if you want to join Mensa.

ANSWER: **IQ** test [accept **intelligence quotient** test]

13. This natural feature is located off the coast of Queensland and contains no atolls. The calcium carbonate shells of the creatures who live here have experienced coral bleaching. For 10 points, name this Australian natural feature which is the largest living structure in the world.

ANSWER: **Great Barrier Reef**

14. The Indian spacecraft Chandrayaan-1 proved the existence of ice on the surface of this body. This body may have been created when another object crashed into Earth, launching enough rock into space. For 10 points, name this celestial body that humans visited during the Apollo missions.

ANSWER: Earth's **moon**

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15. The Seminoles fought two wars to prevent being forced into this event. Andrew Jackson ignored a Supreme Court order protecting the Cherokee from this event. For 10 points, name this event in which Cherokee, Chickasaw, Choctaw, and Creek tribes were led away from their lands in the Southeast United States.

ANSWER: Trail of Tears [accept Indian removal]

16. This form of poetry arose from the first stanza of the renga. One poem of this type describes a frog jumping into a pond and was written by Matsuo Basho. These poems originated in Japan. For 10 points, name these poems that consist of three lines with five, seven, and five syllables.

ANSWER: haiku [accept hokku]

17. COMPUTATION: Leo wants to know the next time his two alarms will go off at the same time. One makes a beep every 9 minutes, and the other makes a beep every 15 minutes. He can find the least common multiple of both numbers to calculate for 10 points, how long it will before both alarms go off again?

ANSWER: 45 minutes

18. This organ contains the pons and the medulla oblongata. It is part of the central nervous system and is separated into two parts by the corpus callosum. This organ contains various lobes, which are responsible for senses such as sight. For 10 points, name this control center of the body.

ANSWER: brain [accept brain stem before “corpus callosum”]

19. This musical symbol is sometimes called a “hairpin” and is drawn as two lines that meet at a point on the left -hand side, and then move away from each other on the right. Performing this means that the sound should gradually get louder. For 10 points, name this symbol, the opposite of diminuendo.

ANSWER: crescendo

20. As dictator, this man reorganized the calendar by adding 10 days to a Roman year. Crossing the Rubicon led to a civil war against his former ally Pompey; that led him to Egypt where he met Cleopatra. For 10 points, name this Roman leader who was killed on the Ides of March in 44 BC.

ANSWER: Gaius Julius Caesar [prompt on Caesar]

TB. In Southeast Asia, Hmong people with this profession carry a holy sword to protect from evil spirits. Many cultures see these people as a link between the living world and the spirits of the dead. Many of these people also perform healing rituals. For 10 points, give the name for a tribal medicine man.

ANSWER: shaman [accept medicine man until “healing”]

BONUSES

1. Theodore Maiman invented the first one of these devices, which operated using a ruby. For 10 points each:

[10] Name these devices which emit a focused beam of intense light of one particular color.

ANSWER: lasers

[10] The color of light is determined by its value of this property, the distance between peaks or troughs.

ANSWER: wavelength

[10] This color laser has a shorter wavelength than the red laser used to read DVDs, which is why the newer discs named for this color can store more data.

ANSWER: blue [accept Blu-Ray]

2. COMPUTATION: Preston and John are playing quiz bowl one-on-one. John usually answers four times as many questions as Preston. For 10 points each:

[10] If there are 20 questions in a game and all questions are answered, how many can Preston expect to answer?

ANSWER: 4 questions

[10] If each question is worth ten points, by how many points did John win the game?

ANSWER: 120 points

[10] Preston is tired of losing and studies very hard for three months. When he plays John again, he can answer 60% of the questions before John. If all questions are answered between the two players, how many questions did Preston answer?

ANSWER: 12 questions

3. These plants are great for making Thneeds, which everybody needs. For 10 points each:

[10] Name these plants which the Once-ler chopped down to make his odd products.

ANSWER: truffula trees [prompt for more information on trees]

[10] This orange character sends the Bar-ba-loots to find food and the Humming Fish to cleaner water after the actions of the Once-ler.

ANSWER: The Lorax

[10] *The Lorax* is a book by this children's author who also wrote *One Fish, Two Fish, Red Fish, Blue Fish*.

ANSWER: Dr. Seuss [accept Theodore Seuss Geisel]

4. This conservative Republican US president was a former actor. For 10 points each:

[10] During this man's presidency, weapons were sold to Iran to fund Contra rebels.

ANSWER: Ronald Reagan

[10] The Contras were from this Central American country.

ANSWER: Nicaragua

[10] Reagan is also well known for telling Mikhail Gorbachev to "tear down" this oppressive structure that divided the German capital for decades.

ANSWER: Berlin Wall

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5. Important sites in this country include Trinity College, home to the ancient Book of Kells. For 10 points each:

[10] Name this country where you can attend the St. Patrick's parade in Dublin.

ANSWER: Republic of **Ireland**

[10] It is said that kissing this Irish rock can give one the gift of the gab, or great skill at speaking.

ANSWER: **Blarney** Stone

[10] This city on Ireland's west coast lends its name to a kind of five-line humorous poem.

ANSWER: **Limerick**

6. This process creates alternating bands of rock with different magnetic field alignments. For 10 points each:

[10] Name this process discovered by Harry Hess which creates new oceanic crust.

ANSWER: **seafloor spreading**

[10] Seafloor spreading explained how this process works. It is the idea that large landmasses can move across the surface of the Earth.

ANSWER: **continental drift** [accept plate **tectonics**]

[10] The theory of continental drift was proposed by this scientist in 1912 after he noticed that South America and Africa fit together pretty well.

ANSWER: Alfred **Wegener** [As his name is German, it is actually pronounced *vague-nur*, but accept any reasonable pronunciation.]

7. The current holder of this office is Joe Biden. For 10 points each:

[10] Name this US government position also formerly held by Dick Cheney and Al Gore.

ANSWER: **Vice President** of the United States [accept **President** of the (United States) **Senate** but do not reveal this answer if not given]

[10] The Vice President also serves as the president of this house of Congress, where he votes only if there is a tie.

ANSWER: United States **Senate**

[10] The Vice President also certifies the official votes cast by this group of 538 people, who officially select the President by representing the voters of their home districts.

ANSWER: **Electoral College**

8. For 10 points each, answer these questions about certain combinations of colors.

[10] Give the term for two colors on opposite sides of the color wheel.

ANSWER: **complementary** colors

[10] Printer ink is based on the subtractive CMYK color model. What color does the M stand for in CMYK?

ANSWER: **magenta**

[10] Colors of light, on the other hand, are an additive model. What color results when you mix red, green and blue light, such as on a TV screen?

ANSWER: **white** light

9. For 10 points each, name these words or prefixes that have a common meaning.

[10] This Greek prefix meaning “against” could be put before “biotic” to describe a medicine that fights bacterial infections.

ANSWER: **anti-** [accept **antibiotic**]

[10] This Latin word, abbreviated *v* or *vs*, appears in the titles of court cases and advertisements for football games.

ANSWER: **versus**

[10] In writing an essay, your teacher might have you compare two things, or do *this*, which means to describe their differences.

ANSWER: **contrast**

10. Maria Chappelle-Nadal was tear gassed in this city, which she represents in the state senate. For 10 points each:

[10] Name this suburb of St. Louis, home to Bob McCulloch and Darren Wilson.

ANSWER: **Ferguson**, Missouri

[10] Wilson was accused of shooting this Ferguson teenager in August 2014.

ANSWER: Michael “Mike” **Brown**

[10] McCulloch was criticized for his actions with this group of 12 people who spent nearly three months poring over evidence.

ANSWER: **grand jury** [prompt for more information on **jury**]

11. Some parts of the world are home to unique types of animals. For 10 points each:

[10] Wallabies, wombats and kangaroos all belong to this group of mammals whose young are carried in a pouch after birth.

ANSWER: **marsupials**

[10] Most marsupials are native to this country. The island of Tasmania, where the Tasmanian devil lives, is part of this country.

ANSWER: **Australia**

[10] The only marsupial native to the United States is this creature which plays dead and sometimes scavenges through trash to find food.

ANSWER: Virginia **opossum**

12. This event is commemorated on Good Friday, and Joseph of Arimathea used his tomb to hold the body of this event’s victim. For 10 points each:

[10] Name this event that occurred on Golgotha according to the New Testament. Its victim is said to have risen from the dead three days later.

ANSWER: **crucifixion** of Jesus Christ

[10] This apostle of Jesus betrayed him with a kiss for thirty pieces of silver, setting the stage for the crucifixion.

ANSWER: **Judas** Iscariot

[10] This Roman official reluctantly sentenced Jesus to death after a crowd demanded him to release Barabbas instead of Jesus.

ANSWER: Pontius **Pilate**

13. For 10 points each, answer these questions about leaders with titles in common:

[10] Give the title last held by Nicholas II of Russia before he was killed in 1918.

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ANSWER: Tsar of Russia [other common spellings include Czar]

[10] The word “tsar” is derived from the name of this Roman leader.

ANSWER: Julius Caesar

[10] “Caesar” is also the origin of this German title, famously held by Wilhelm II during World War I.

ANSWER: Kaiser

14. One of these consists of eight pitches in alternating whole and half steps. For 10 points each:

[10] Name these sets of pitches with music students often practice playing in a particular key.

ANSWER: (octatonic) scale

[10] Some world music is based on a pentatonic scale, which consists of this many pitches.

ANSWER: five

[10] This solfege [*“soul-fezh”*] pitch starts and ends a minor scale and comes between sol and ti.

ANSWER: la

15. In one of this man’s stories, Hank Morgan travels to Camelot and meets King Arthur. For 10 points each:

[10] Name this author of *A Connecticut Yankee in King Arthur’s Court* and *The Adventures of Huckleberry Finn*, born Samuel Clemens.

ANSWER: Mark Twain [accept Samuel Langhorne Clemens before mentioned]

[10] Many of Twain’s works center on or around this body of water, where he was a riverboat pilot.

ANSWER: Mississippi River

[10] Twain grew up and lived in this Missouri river town, which is now home to a cave named for him.

ANSWER: Hannibal, Missouri

16. For 10 points each, answer some questions about a common scientific term.

[10] Name the testable explanations for a scientific observation that many science teachers ask students to write as “if-then” statements.

ANSWER: hypotheses [accept hypothesis]

[10] In statistics, one might test this kind of hypothesis, sometimes written H_0 [*h sub-naught*], that assumes there is no relationship between variables.

ANSWER: null hypothesis

[10] If the null hypothesis is true, then that means that this variable has no effect on the dependent variable.

ANSWER: independent variable

17. The events making up this feat are open to three-year-old colts and fillies. For 10 points each:

[10] Name this accomplishment of winning a particular set of U.S. horse races.

ANSWER: United States **Triple Crown** of Thoroughbred Racing

[10] This horse won the 1973 Triple Crown and is considered one of the greatest Thoroughbreds of all time.

ANSWER: **Secretariat**

[10] The three races are the Preakness Stakes, Belmont Stakes and this race held each year in Louisville.

ANSWER: **Kentucky Derby**

18. COMPUTATION: For a really fun science project, Jerry needs to know how many Mentos to buy. For each experiment, Jerry needs one bottle of Diet Coke and 12 Mentos. For 10 points each:

[10] If Jerry wants to run 15 trials of his experiment, how many total Mentos does Jerry need to buy?

ANSWER: **180** Mentos

[10] Each bottle of Diet Coke costs \$1 and each pack of 12 Mentos costs \$0.50. How much will it cost Jerry to perform his science project?

ANSWER: **\$22.50**

[10] If each trial takes 5 minutes to run and Jerry has two of his friends performing trials at the same time as he does, how many minutes will it take to complete the project?

ANSWER: **25** minutes

19. This state once contained many Dutch settlements such as New Amsterdam. For 10 points each:

[10] Name this state which contains Manhattan, an island that the Dutch supposedly purchased from native residents.

ANSWER: **New York**

[10] This capital city of New York is where colonial leaders proposed a “Plan of Union” to organize the new country.

ANSWER: **Albany**

[10] This star-shaped fort in New York lends its name to a brand of pencil made by the Dixon company, as the graphite was processed nearby.

ANSWER: Fort **Ticonderoga**

20. Name some things related to the chemicals in gasoline. For 10 points each:

[10] Most gasoline sold in the U.S. these days no longer contains this toxic metal with symbol Pb, which was also common in older paints.

ANSWER: **lead**

[10] Lead was added to reduce this phenomenon, when an engine’s fuel mixture misfires and creates a particular noise.

ANSWER: engine **knocking**

[10] This component of gasoline is named for its eight carbons; it also names a rating of fuel performance which is around 90 for standard unleaded fuel.

ANSWER: **octane**

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TB. This book's main character accepts a bet from his friends, hoping to buy a minibike. For 10 points each:

[10] Name this book where the main character must eat 15 of a particular animal in 15 days.

ANSWER: ***How to Eat Fried Worms***

[10] This main character of *How to Eat Fried Worms* is friends with Tom, Alan and Joe.

ANSWER: **Billy** Forrester

[10] How much money did Billy win from his friends by eating all 15 worms on time?

ANSWER: **fifty** dollars