

Polk County Middle School E-Team Tournament

Introduce yourself. Welcome the participants. Have the tournament officials introduce themselves.

Have the team coaches come forward to introduce themselves and the team members. Instruct everyone to turn off all electronic devices. There is no videotaping allowed. Ask that audience members please remain seated and quiet during the competition. Entry and exit should occur only during the authorized breaks.

Conduct a button and calculator check.

Begin the 5-point question round for 6th grade.

ECON 1. Identify the economic term from your glossary defined as a loan secured by real estate.

Answer: mortgage

MATH 2. Identify the common multiplier in the following proportion that makes the proportion equal.

$$\frac{15}{60} = \frac{75}{300}$$

Answer: 5

ENG 3. Match each of the following three literary works to its publication date.

<u>Literary Works</u>	<u>Publication Dates</u>
A. <i>The Giver</i>	1. 2007
B. <i>Diary of a Wimpy Kid</i>	2. 1993
C. <i>Where the Red Fern Grows</i>	3. 1961

Answer: A-2, B-1, C-3

SCI 4. Fill in the blank with the missing science term. In a scientific experiment on the effects of music and plant growth, music is best described as the (blank) variable.

Answer: independent (variable) (also accept: manipulated variable)

ECON 5. Which one of the following four products has the lowest price by volume?

- * 1. 1 oz for 15 cents
- 2. 2 oz for 31 cents
- 3. 1 oz for 17 cents
- 4. ½ oz for 8 cents

MATH 6. Identify the median for the following set of five numbers: 40, 46, 39, 44, 34

Answer: 40

GEOG 7. Fill in the blank in the following sentence with one of the four given choices.

Wind energy is a (blank).

1. fossil fuel
- * 2. renewable resource
3. raw material
4. nonrenewable resource

ENG 8. Identify the genre of literature that incorporates meter and rhyme to enhance cadence.

Answer: poetry

SCI 9. Which one or ones of the following four criteria determine the validity of a science experiment?

- * 1. observable
- * 2. predictable
3. personable
- * 4. testable

GEOG 10. Fill in respectively the two blanks in the following sentence with the missing geography terms.

Lines of (blank) measure the distance east and west of the Prime Meridian and lines of (blank) measure the distance north and south of the Equator.

Answer: longitude, latitude

End of 5-point round for 6th grade.

Announce the two-minute break. Have the judges turn over their question sets. Coaches may make substitutions and talk with their teams.

Time 2 minutes.

Conduct a button check after the break.

Announce cumulative scores.

Begin the 10-point question round for 6th grade.

ENG 11. Identify respectively the adverb in each of the following three sentences.

1. The meteorologist predicted extremely cloudy skies with rainstorms in the afternoon.
2. The storm roared very suddenly.
3. We were really late for our reservation as a result of the heavy traffic.

SCI 12. Match each of the four scientific terms to its description.

<u>Terms</u>	<u>Descriptions</u>
A. reflection	1. allows almost all light pass through
B. refraction	2. allows some light through
C. transparent	3. bends light
D. translucent	4. causes light to bounce

Answer: A-4, B-3, C-1, D-2 (Source: *Physical Science*, Glencoe, pg. 384)

GEOG 13. Which one of the following four fundamental environmental problems does paper recycling solve?

1. genetic engineering
- * 2. deforestation
3. lead poisoning
4. overpopulation

ENG 14. Unscramble the following 10 letters to form a literary term defined as setting forth the meaning or purpose of a story by including background information and events necessary to follow the plot.

O, P, I, E, S, X, T, I, N, O

Answer: exposition

ECO 15. Which one of the following four does not allow a free enterprise economy to thrive?

1. private ownership of property
2. profit motive
- * 3. central government planning
4. competition

GEOG 16. Letter scramble. Unscramble the following seventeen letters to form a two-word geography term associated with the capital letters N, S, E, and W.

N, A, R, C, D, I, L, A I, D, R, E, I, T, O, C, N

Answer: cardinal direction

MATH 17. Arrange the following four rational numbers from greatest to least.

$-\frac{5}{6}$, 1.6 , $-.83$, .8

Answer: 1.6 , .8 , $-.83$, $-\frac{5}{6}$

- SCI** 18. Which one of the following four best describes the conversion of energy in a gasoline powered car engine?
1. chemical to electrical to mechanical
 - * 2. chemical to thermal to mechanical
 3. thermal to mechanical to chemical
 4. kinetic to potential to mechanical

- ECON** 19. Match each of the four economic terms to its description.

<u>Terms</u>	<u>Descriptions</u>
A. goods	1. things of value that cannot be seen or touched
B. services	2. business owners, managers, and workers
C. producers	3. those who buy goods and services
D. consumers	4. things of value that can be seen or touched

Answer: A-4, B-1, C-2, D-3

- MATH** 20. State the mathematical expression for the following math phrase:

17 less than twice x

Answer: $2x - 17$

End of 10-point round for 6th grade.

Announce the two-minute break. Have the judges turn over their question sets. Coaches may make substitutions and talk with their teams.

Time 2 minutes.

Conduct a button check after the break. Announce cumulative scores.

Begin the 15-point question round for 6th grade.

- ECON** 21. Which one of the following four is the single most important source of revenue for the federal government?
1. estate tax
 2. property tax
 3. excise tax
 - * 4. income tax

- ENG** 22. This is a two part question concerning the phrase “in full bloom” contained in the following sentence: There, sitting outside of her window was a cherry-tree in full bloom.

Part One: What type of phrase is it?

Part Two: As what part of speech does the phrase function?

Answer: Part One: prepositional (phrase)
Part Two: adjective

For the next question you will need the following information. Ann earns \$10,000 annually and pays a 10% tax of \$1,000. Jerome earned \$60,000 during the same period and paid a 33% tax of \$20,000.

ECON 23. Which one of the following three taxes do both Ann and Jerome pay?

- * 1. progressive tax
- 2. regressive tax
- 3. marginal tax

SCI 24. Identify respectively each of the following four as a transverse wave, a compression wave, or both.

- 1. sound wave
- 2. released spring coil
- 3. seismic wave
- 4. a shaking rope (Source: *Physical Science*, Glencoe, pg. 292)

Answer: 1. compression; 2. compression; 3. both; 4. transverse

MATH 25. A farmer's field measures 30 meters by 30 meters. He plants his crop of clover in a circular area within this field. In square units, determine the area of the largest circular clover field he can plant.

Answer: 706.5 (square units)

GEOG 26. Spell the geography term defined as the process of accepting new ideas and fitting them into a culture.

Answer: a-c-c-u-l-t-u-r-a-t-i-o-n (Source: *World Studies*, Prentice Hall, pg. 106)

MATH 27. Identify the property used to determine if the following two expressions are equivalent:

(Note to reader: negative two times the quantity x plus 1 equals negative two x minus 2)

$$-2(x+1) = -2x - 2$$

Answer: distributive property

SCI 28. Determine the rate of speed in kilometers per hour of a plane that travels 27 kilometers in 3 minutes.

Answer: 540 (km/hr)

ENG 29. The following sentence uses a parallel structure. True or False?

Edwin likes hiking, the rodeo, and to take afternoon naps.

Answer: False

GEOG 30. Identify the two-word geography term defined as the average number of people living in a square mile.

Answer: population density

End of 15-point round for 6th grade.

It is time for the 30-point team question entitled “*Diary of a Wimpy Kid.*”

For this question you will use Handout 6-1-1. Locate the envelope labeled 6-1-1 but do not open it.

This envelope contains four copies of Handout 6-1-1. You are to supply the missing words, placing one letter per blank. Unscramble the circled letters to form the type of term indicated. SPELLING DOES COUNT. This team question is worth a total of 30 points, and each question is worth 3 points.

You will be given 3 minutes to complete the handout. Remember to write your team number on one handout to be collected and scored.

Open the envelopes, distribute, and begin.

Time 3 minutes.

STOP! Hold your team handout in the air.

Read answers: (3 points each) Spelling Counts!

- | | |
|----------------|-----------------|
| 1. x-ray | 6. velocity |
| 2. graphics | 7. alliteration |
| 3. Maori | 8. archipelago |
| 4. associative | 9. algebraic |
| 5. corporation | 10. oligopoly |

Announce scores from the team question.

Ask if there are any questions concerning the scoring.

Announce the two-minute break during which the 7th grade team is seated. Have the judges turn over their question sets. (Collect handouts and put out fresh paper and pencils if needed.)

Time 2 minutes.

Conduct a button and calculator check after the break.

Announce cumulative scores.

Begin the 5-point question round for 7th grade.

- ECON** 1. Unscramble the following letters to form the two-word economic term from your glossary defined as income that is not committed to a particular use and can be used flexibly on whatever someone wants to purchase.

First word: P, S, B, I, L, E, O, D, A, S

Second word: M, E, C, N, O, I

Answer: disposable income

- SCI** 2. Which one of the following three organisms is correctly matched with its role?

- * 1. rabbit; consumer
- 2. algae; decomposer
- 3. earthworm; producer

- ECON** 3. Which one of the following four best describes the concept of laissez-faire?

- 1. let the buyer beware
- * 2. keep government out of business
- 3. consumers rule
- 4. allow government to be involved in business

- MATH** 4. Identify respectively each of the following four real numbers as rational or irrational.

- 1. 3.69
- 2. $\sqrt{66}$
- 3. 75
- 4. π

Answer: 1. rational, 2. irrational, 3. rational, 4. irrational

- ENG** 5. Complete the following analogy using one of the four given choices.

Bulb is to plant as (blank).

- 1. switch is to light.
- 2. pupil is to teacher.
- 3. leaf is to tree.
- * 4. tadpole is to frog.

- SS** 6. Unscramble the following seven letters to form a social studies term.

A, N, T, S, R, O, E

Answer: treason

MATH 7. Define the following survey question as fair or biased.

Do you prefer slimy anchovies or healthy vegetables on your pizza?

Answer: biased

GEOG 8. Fill in the blank with the missing geography term. A cold, dry region covered with snow for more than half the year is known as a (blank).

Answer: tundra

SCI 9. Identify the symbiotic relationship in which both species benefits.

Answer: mutualism

ENG 10. Spell the literary term defined as the use of an object, a person, or a place to represent something else.

Answer: s-y-m-b-o-l-i-s-m

End of 5-point round for 7th grade.

Announce the two-minute break. Have the judges turn over their question sets. Coaches may make substitutions and talk with their teams.

Time 2 minutes.

Conduct a button check after the break.

Announce cumulative scores.

Begin the 10-point question round for 7th grade.

GEOG 11. Which one of the following four Great Lakes lies entirely in the US?

1. Ontario
- * 2. Michigan
3. Erie
4. Superior

ENG 12. Identify respectively the correlative conjunctions in the following sentence.

He led the team not only in statistics but also by being an encouraging and patient captain.

MATH 13. Simplify the following expression:

$-|-6|$ (Note to the reader: the negative absolute value of negative 6.)

Answer: - 6

ECON 14. Match each of the following four economic terms to its definition.

<u>Terms</u>	<u>Definitions</u>
A. economics	1. limited supply of goods and services
B. resources	2. aids in the production of goods and services
C. scarcity	3. next best alternative given up when a choice is made
D. opportunity cost	4. study of the choices people make as producers and consumers

Answer: A-4, B-2, C-1, D-3

SCI 15. Spell the 13 letter science term defined as a virus that attacks a bacteria.

Answer: b-a-c-t-e-r-i-o-p-h-a-g-e

ENG 16. Identify respectively each of the following three sentences as parallel or not parallel.

1. My best friend took me dancing and to a show.
2. I would rather pay for the movies than dinner.
3. She not only paid for the movie, but she also paid for dessert.

Answer: 1. not parallel, 2. not parallel, 3. parallel

MATH 17. To the nearest thousandth, round the following decimal: eight thousand one hundred ninety-eight ten thousandths.

Answer: .820 (accept: eight hundred twenty thousandths)
(do not accept: eighty-two hundredths or .82)

ECON 18. Identify the economic term from your glossary defined as a new and better way to do something.

Answer: i-n-n-o-v-a-t-i-o-n

SCI 19. Unscramble and spell the nine letter life science term defined as the evolutionary history of an organism used as the basis for classification of many organisms.

G, O, H, E, Y, P, N, L, Y

Answer: p-h-y-l-o-g-e-n-y

GEOG 20. Identify the title for the presiding officer of the U.S. House of Representatives.

Answer: Speaker (of the House)

End of 10-point round for 7th grade.

Announce the two-minute break. Have the judges turn over their question sets. Coaches may make substitutions and talk with their teams.

Time 2 minutes.

Conduct a button check after the break.

Announce cumulative scores.

Begin the 15-point question round for 7th grade.

MATH 21. State the expression needed to calculate the following probability.

Roll a fair number cube three times. What is the probability of a four, a six, and a two?

Answer: $\frac{1}{6} \times \frac{1}{6} \times \frac{1}{6}$ accept: $(\frac{1}{6})^3$

ENG 22. Identify the literary term defined as a combination of contradictory or incompatible words such as “jumbo shrimp” and “resident alien.”

Answer: oxymoron

SS 23. Identify respectively the following three as concurrent, delegated or inherent powers of government.

1. declare war
2. levy taxes
3. regulate immigration

Answer: 1. delegated; 2. concurrent; 3. inherent

SCI 24. Match each of the following five scientists to his contribution.

<u>Scientists</u>	<u>Contributions</u>
A. Pasteur	1. used the word cell to describe the basic unit of life
B. Hooke	2. classified organisms
C. Jenner	3. recognized division of cells
D. Virchow	4. disproved spontaneous generation
E. Linnaeus	5. developed smallpox vaccine

Answer: A-4, B-1, C-5, D-3, E-2

ECON 25. Which one of the following four best describes an industry where per-unit costs decline as the output increases making the most economical size of the firm very large?

1. geographic monopoly
2. government monopoly
3. technological monopoly
- * 4. natural monopoly

ENG 26. Match each of the following three works of fiction to its theme.

<u>Works of Fiction</u>	<u>Themes</u>
A. <i>The Secret Garden</i>	1. man versus nature
B. <i>Holes</i>	2. rebirth and innocence
C. <i>Hatchet</i>	3. power of fate

Answer: A-2, B-3, C-1

ECON 27. Identify respectively the following four taxes as direct or indirect.

1. property
2. sales
3. employment
4. income

Answer: 1. direct; 2. indirect; 3. indirect; 4. direct

SCI 28. Which one of the following four kingdoms does not belong in the eukarya domain.

1. plantae
2. fungi
3. animalia
- * 4. eubacteria

For the next question you will need the following information. A teacher needs a girl anchor and a boy anchor for her television news show. Eight girls and six boys send in their names for consideration. To be fair, the teacher puts the names of the students in a hat and draws out two names.

MATH 29. In lowest terms, state the probability that a girl will be chosen first and a boy will be chosen second?

Answer: $\frac{24}{91}$

ECON 30. Spell the economic term from your glossary defined as the process of transforming productive activity from labor to capital intensive.

Answer: m-e-c-h-a-n-i-z-a-t-i-o-n

End of 15-point round for 7th grade.

It is time for the 30-point team question entitled “*Night at the Museum.*”

For this question you will use Handout 7-1-1. Locate the envelope labeled 7-1-1 but do not open it.

This envelope contains four copies of Handout 7-1-1. You are to supply the missing words, placing one letter per blank. Unscramble the circled letters to form the type of term indicated. SPELLING DOES COUNT. This team question is worth a total of 30 points, and each question is worth 3 points.

You will be given 3 minutes to complete the handout. Remember to write your team number on one handout to be collected and scored.

Open the envelopes, distribute, and begin.

Time 3 minutes.

STOP! Hold your team handout in the air.

Read answers: (3 points each) Spelling Counts!

1. chloroplast
2. exclamation point
3. hieroglyphics
4. x-axis
5. tariff
6. ribosomes
7. simile
8. incentive
9. quartile
10. separatist

Announce scores from the team question.

Ask if there are any questions concerning the scoring.

Announce the FIVE-minute break during which the 8th grade team is seated. This is the restroom break for students, coaches, and observers. Have the judges turn over their question sets. (Collect handouts and put out fresh paper and pencils on tables.)

Time 5 minutes.

Conduct a button and calculator check after the break.

Announce cumulative scores.

Begin the 5-point question round for 8th grade.

- SS** 1. Name the ancient trade route between China and the Mediterranean Sea that once spanned over 4000 miles.

Answer: (the) Silk Road (accept: Silk Routes)

- SCI** 2. Match each of the three types of thermal heat transfer to its definition.

<u>Thermal Heat Transfers</u>	<u>Definitions</u>
A. conduction	1. transfer in a fluid
B. convection	2. transfer by collision between particles in matter
C. radiation	3. transfer by electromagnetic waves

Answer: A-2, B-1, C-3

- ENG** 3. Identify the term defined as a long narrative in prose or poem format celebrating the adventures and achievements of a hero.

Answer: epic

Handout 7-1-1
Team # _____

Night at the Museum

Supply the missing words, placing one letter per blank. For the last answer, unscramble the circled letters to form a social studies term. **SPELLING DOES COUNT!!**

1. While eating a leaf from one of Sacajawea's trees, Dexter begins to ponder, "In which plant organelle is food made?" _____ () ()
2. This punctuation mark adds emphasis to a poem, novel, or sentence.
_____ () _____
3. The museum is home to a collection of Mayan writings, which used signs and symbols.
_____ ()
4. At the museum, the paleontologist created a scatter plot comparing the age of a pterodactyl to its wingspan. On which part of the graph would he label the independent variable?
_____ - _____ ()
5. The King of the Pharaohs loved his bed linens, but hated having to pay more for them in the US. Egyptian cotton is usually priced higher because of this duty or tax imposed as goods enter or leave the US.
() _____
6. These small cytoplasm structures that make their own proteins from amino acids are among the museums smallest inhabitants.
() _____
7. *Genghis Khan's hair was coarse as a horse's tail* is an example of what figure of speech? _____ ()
8. The factors that motivated and influenced Larry's actions to save Jedediah from the sands of the hourglass are known in the world of economics as these.
() _____
9. On the box and whisker plot, the museum used recorded data of the ages of artifacts found in King Tut's tomb, each _____ () _____ represented 25% of the data.
10. A _____ is a person who wants Quebec to become an independent country. Jedediah could relate to these people as he too would very much like to form an independent territory free from Giantor!

- MATH** 4. Name the theorem which states that the sides of a right triangle; a, b, c, can be defined as $a^2 + b^2 = c^2$.
- Answer: Pythagorean (Theorem)
- SS** 5. Spell the eleven letter term for the study of history's unwritten past.
- Answer: a-r-c-h-a-e-o-l-o-g-y
- ECON** 6. Which one of the following four is not an advantage of proprietorship?
1. the proprietor may keep all the profits
 2. the proprietor is his or her own boss
 - * 3. the proprietor can lose only a limited amount of money
 4. the proprietor can make an unlimited to the amount of money
- ENG** 7. Letter scramble. Unscramble the following seven letters to form the literary term defined as saying something defamatory about someone or something.
- D, A, N, R, E, L, S
- Answer: slander
- MATH** 8. In terms of π , calculate the diameter of a circle given the circumference of the circle is 45 units.
- Answer: $\frac{45}{\pi}$ (do not accept a decimal answer)
- ECON** 9. State respectively the steps taken when using the PACED Decision Making Model.
- Answer: 1. (define the) **problem**; 2. (list the) **alternatives**; 3. (select) **criteria**; 4. **evaluate** (the alternatives); 5. (make a) **decision** (accept: decide)
- SCI** 10. Fill in the blank with the missing science term. A (blank) is an explanation of things or events based on knowledge gained from many observations and investigations.
- Answer: theory

End of 5-point round for 8th grade.

Announce the two-minute break. Have the judges turn over their question sets. Coaches may make substitutions and talk with their teams.

Time 2 minutes.

Conduct a button check after the break.

Announce cumulative scores.

Begin the 10-point question round for 8th grade.

- ENG** 11. Identify the literary term defined as a character, symbol, story pattern, or other element that is common to human experience across cultures and that occurs frequently in literature, myth, and folklore.

Answer: archetype

- SS** 12. Which one of the following four events encouraged attendance at the Constitutional Convention in 1787?

1. Treaty of Paris
2. The Boxer Rebellion
3. John Brown's Raid
- * 4. Shays' Rebellion

- ECON** 13. Identify respectively each of the following three properties as public or private.

1. Bartow High School
2. Legoland
3. Lakeland Square Mall

Answer: 1. public; 2. private; 3. private

- ENG** 14. Match each of the four literary terms to its meaning.

<u>Terms</u>	<u>Meanings</u>
A. prose	1. noun or noun phrase that gives further detail
B. tone	2. descriptive language used to create word pictures
C. imagery	3. the ordinary form of written language
D. appositive	4. a writer's attitude towards the subject

Answer: A-3, B-4, C-2, D-1

- SCI** 15. Fill in the blank with one of the four given choices. (Blank) energy is thermal energy that is transferred from a body with a higher temperature to a body with a lower temperature.

1. kinetic
2. solar
- * 3. heat
4. potential

- MATH** 16. Identify the solution to the following inequality.

$$-4k > -1 \quad (\text{Note to reader: negative } 4k \text{ is greater than negative one})$$

Answer: $k < \frac{1}{4}$

SS 17. Which one or ones of the following four were weaknesses of the Articles of Confederation?

- * 1. no power to tax
- * 2. each state had only one vote
- * 3. no national court system
- * 4. amendments required a unanimous vote

SCI 18. Identify respectively the following examples as either chemical or physical properties.

1. size
2. melting point
3. flammability
4. density

Answer: 1. physical; 2. physical; 3. chemical; 4. physical

MATH 19. Identify the range of the function $y = 0.2x - 5$ given the domain $\{5,10,15\}$.

Answer: $-4, -3, -2$ (Note: must be in this order)

ECON 20. Fill in the blank in the following sentence with the missing two-word term from your glossary. (Blank) is a method of negotiation used between labor and management in order to reach agreement on wages, hours, or conditions of employment.

Answer: Collective bargaining

End of 10-point round for 8th grade.

Announce the two-minute break. Have the judges turn over their question sets. Coaches may make substitutions and talk with their teams.

Time 2 minutes.

Conduct a button check after the break.

Announce cumulative scores. Begin the 15-point question round for 8th grade.

SCI 21. To the nearest tenth, determine the density in grams per centimeter of an object with a mass of 20 grams and a volume of 4.4 centimeters.

Answer: 4.5 (g/cm)

ECON 22. Fill in the blank in the following analogy with a two-word term from your glossary. Credit price is to deferred payment as deficit spending is to (blank).

Answer: budget deficit

- MATH** 23. At Shazam music store, CDs are on sale for 30% off. A coupon offers an additional 15% off. To the nearest cent, calculate the total discount on a CD priced originally at \$12.99.

Answer: \$5.26

- ENG** 24. Match each of the four authors to his or her work.

<u>Authors</u>	<u>Works</u>
A. Maya Angelou	1. "Invocation from John Brown's Body"
B. Alice Walker	2. "I Know Why the Caged Bird Sings"
C. Stephen Vincent Benet	3. "Fredrick Douglass"
D. Robert Hayden	4. "Choice: A Tribute to Martin Luther King"

Answer: A-2, B-4, C-1, D-3

- ECON** 25. Identify the three-word economic term from your glossary defined as the *per capita* level of production of goods and services achieved in an economy; computed by dividing the GDP by the population.

Answer: standard of living

- SCI** 26. Which one of the following four elements has similar properties to those of neon?

1. lead
- * 2. helium
3. arsenic
4. silver

- ECON** 27. Which one of the following four elements of the money supply is referred to as M1 by the Federal Reserve?

1. annuity
2. bond
- * 3. currency
4. stock

- SS** 28. Match each of the four men to the US colony with which he is associated.

<u>Men</u>	<u>US Colonies</u>
A. Roger Williams	1. Georgia
B. Thomas Hooker	2. Rhode Island
C. Cecilius Calvert	3. Maryland
D. James Oglethorpe	4. Connecticut

Answer: A-2, B-4, C-3, D-1

- ENG** 29. Which one of the following four poems was not written by Walt Whitman?

1. *O Captain! My Captain!*
2. *Crossing Brooklyn Ferry*
- * 3. *A Man* (written by: Nina Cassian)
4. *Leaves of Grass*

MATH 30. Solve for x in the following literal equation $r + px = -t$.
(note to reader: r plus px equals negative t)

$$\text{Answer: } x = \frac{-t-r}{p}$$

End of 15-point round for 8th grade.

It is time for the 30-point team question entitled “Avatar”

For this question you will use Handout 8-1-1. Locate the envelope labeled 8-1-1 but do not open it.

This envelope contains four copies of Handout 8-1-1. You are to supply the missing words, placing one letter per blank. Unscramble the circled letters to form the type of term indicated. SPELLING DOES COUNT. This team question is worth a total of 30 points, and each question is worth 3 points.

You will be given 3 minutes to complete the handout. Remember to write your team number on one handout to be collected and scored.

Open the envelopes, distribute, and begin.

Time 3 minutes.

STOP! Hold your team handout in the air.

Read answers: (3 points each) Spelling Counts!

1. dependent variable
2. double negative
3. Jamestown
4. algebraic
5. trade
6. guerrilla
7. denotation
8. conservation
9. perpendicular
10. investigation

Announce scores from the team question. Ask if there are any questions concerning the scoring.

TEAMS MUST REMAIN SEATED WHILE FINAL SCORES ARE TALLIED.

[If scores are tied for one of the first three places, have a two-minute break before beginning the tie-breaker question(s). Only those teams whose scores are tied will compete.]

Announce the two-minute break.

Time 2 minutes.

Begin tie-breaker question round.

Conduct a button check.

One point is awarded to the team for a correct answer, or one point is subtracted for an incorrect answer.

Handout 8-1-1
Team # _____

Avatar

Supply the missing words, placing one letter per blank. For the last answer, unscramble the circled letters to form a science term. **SPELLING DOES COUNT!!**

1. Dr. Augustine wants to know if ultraviolet light will affect the rate of growth for Pandorian popping petal plants. As the rate of growth is the factor being measured or observed, it is the _____ in her experiment.
2. When Tsu'tey said to Neytiri "Fiketuwong ke nayume ke'u!" This sentence translates to "This alien will not learn nothing!" It is an example of a _____ or the non-standard use of two negatives in the same sentence so that they cancel each other and create a positive.
3. Just like the travelers to Pandora, English settlers chose to travel to the New World. Identify the first English settlement in the US? _____
4. Jake (j) has three times more time remaining in his avatar than Norm (n). This phrase can be written as a(n) _____ expression.
5. The residents of Earth wanted to create a _____ barrier to inhibit the free exchange of goods and services between themselves and Pandora.
6. Perhaps Colonel Quaritch would have won his battle for Pandora if he had studied more about this type of fighting in which soldiers use swift hit-and-run attacks known as _____ warfare as used in the American Revolution.
7. Colonel Quaritch is a no nonsense kind of a guy, when he says something he means it. If Quaritch was an English teacher he would really like to use _____ or the exact literal meaning of a word.
8. The native people of Pandora, the Na'vi, believed strongly in _____ or the wise use of resources.
9. Two spaceship journeys to Pandora were graphed on a coordinate plane. Because their paths can be written as the equations $y = 4x + 2$ and $y = -\frac{1}{4}x - 1$, we can determine their paths were _____.
10. When studying Pandora's climate and terrain, scientists wanted a full scale _____ ; also known as observing or studying by close examination and systematic inquiry.