



High School Academic Pyramid Questions

2008-2009  
NSC-Format Set #2

Round 9

Related Tossups &  
Bonuses

1. Larvae of creatures in this phylum can be lecithotrophic or planktotrophic. Some species in this phylum possess pedicellariae, and one organism in this phylum has contributed extensively to coral reef destruction by eating coral polyps. One class in this phylum can eject its internal organs to deter predators, and these organisms possess water vascular systems. Along with Chordata, members of this phylum are deuterostomes, and all members have radial symmetry. For 10 points, name this phylum that includes animals like sea cucumbers and starfish.

ANSWER: echinodermata

Bonus: Although these organisms are prokaryotic, they differ from bacteria due to the lack of murein in their cell walls. For 10 points each:

[10] Name this domain of organisms that differs from the Eukaryota and Eubacteria domains.

ANSWER: Archaea [or Archaeobacteria]

[10] Archaea can be divided into methanogens, haloarchaea, and this group of thermophiles, which use the oxidation and reduction of a namesake group 16 element to generate energy.

ANSWER: sulfur-dependent thermophiles

2. Howard Becker argued that this concept was the product of interactions between people whose lines of work involved committing crimes or catching criminals. In one work, David Matza and Gresham Sykes argued that the values behind this type of behavior were excitement and thrill and classified them as subterranean values, and Daniel Patrick Moynihan claimed that “defining [this concept] down” resulted in an increase in crime and other unacceptable behavior. For 10 points, give this term that refers to behaviors that violate the norms of society.

ANSWER: deviancy [or word forms like deviance; prompt on delinquency]

Bonus: He argued that businessmen deliberately sabotage production to drive up prices in *The Theory of Business Enterprise*. For 10 points each:

[10] Name this Norwegian-American economist who wrote about wasteful conspicuous consumption in *The Theory of the Leisure Class*.

ANSWER: Thorstein Veblen

[10] In *The Theory of the Leisure Class*, Veblen argues that the origin of ownership was the ownership of this group. Simone de Beauvoir argued that “one is not born, one becomes” a member of this group in *The Second Sex*.

ANSWER: women [or equivalents]

3. This man engaged in a bitter dispute with his longtime lawyer Ismael Ayob, and as president he lobbied to have the trial for the Lockerbie bombing in his country. After becoming leader of Spear of the Nation, he led a sabotage campaign that would eventually result in the Rivonia Trial and his imprisonment on Robben Island until his release in 1990, three years before he and Willem de Klerk jointly won the Nobel Peace Prize. For 10 points, name this man who was succeeded by Thabo Mbeki as head of the ANC, a South African who resisted apartheid.

ANSWER: Nelson Rolihlahla **Mandela**

Bonus: This war was fought over sections of the mineral-rich Atacama Desert and led to a victory for Chilean forces under Manuel Baquedano. For 10 points each:

[10] Name this conflict also known as the Saltpeter War.

ANSWER: War of the **Pacific**

[10] This country was a big loser during the War of the Pacific, in part because the loss of its Litoral Department left it landlocked.

ANSWER: **Bolivia**

4. One fresco in this location depicts two triumphal arches and a classical temple in the background, *The Delivery of the Keys*. Daniele de Volterra covered the genitalia of many of the figures in a work located here that includes a depiction of the artist as the flayed skin of Bartholomew, *The Last Judgment*. This place's most famous décor depicts several sybils and the expulsion from Eden, as well as God giving life to Adam. For 10 points, name this building whose ceiling was decorated by Michelangelo.

ANSWER: **Sistine Chapel**

Bonus: The title courtesan falls for Alfredo, but the romance predictably ends in tragedy. For 10 points each:

[10] Name this opera by Verdi in which Violetta dies of tuberculosis.

ANSWER: **La traviata**

[10] In this Puccini opera, the heroine Mimi also dies of tuberculosis, despite the best efforts of Rodolfo.

ANSWER: **La bohème**

5. An obscure story about this man states that he once accidentally dropped some toys into the underworld and sent his friend to get them back, only to have his friend imprisoned there. A woman bakes seven loaves of bread in seven days to show that this man had slept for a week. After taking advice from Utanapishtim, this man is foiled when a snake eats an herb that he found at the bottom of a lake. Said to be two-thirds man and one-third immortal, he slays Humbaba and the Bull of Heaven. For 10 points, name this King of Uruk and friend of Enkidu, the namesake of a Sumerian epic.

ANSWER: **Gilgamesh**

Bonus: After being rejected by Gilgamesh, this goddess convinced Anu to send the Bull of Heaven to kill him. For 10 points each:

[10] Name this Babylonian goddess of love, sex, and war.

ANSWER: **Ishtar**

[10] Ishtar had to remove seven articles of clothing to visit this sister of hers and goddess of the underworld, who refused to let her go until Dumuzi took her place.

ANSWER: **Ereshkigal**

6. One king of this line had a son who dishonorably escaped as his replacement hostage after the Treaty of Bretigny, and another was known as “the Mad.” In addition to John II and Charles VI, the political machinations of one king of this branch led him to be known as the “Spider King”, and another monarch of this house met longtime rival Henry VIII of England at the Field of the Cloth of Gold; those were Louis XI and Francis I. For 10 points, name this French house in power from 1328 to 1589.

ANSWER: Valois

Bonus: She sponsored Christopher Columbus’ voyages to the New World. For 10 points each:

[10] Name this queen of Castile and Leon who unified Spain via her marriage to Ferdinand of Aragon.

ANSWER: Isabella I

[10] This daughter of Isabella married Philip the Handsome and was confined in Tordesillas after supposedly going insane.

ANSWER: Juana the Mad [or Juana la Loca; or Joan the Mad; prompt on Juana; prompt on Joan or Joanna]

7. The results of this experiment were challenged by Felix Ehrenhaft. Preliminary results of the experiment were published in a paper correcting Stokes’ Law. Louis Begeman, J. Y. Lee, and Harvey Fletcher all contributed to this experiment, whose results were published in the article “On the Elementary Electric Charge and the Avogadro Number.” For 10 points, name this experiment performed by Robert Millikan, who measured the rate of fall of the namesake substance, the first experiment to conclusively measure the charge on the electron.

ANSWER: oil drop experiment [or Millikan experiment before mention]

Bonus: This experiment shot a beam of alpha particles at the namesake substance, and the experimenters were surprised to see some alpha particles come right back at them. For 10 points each:

[10] Name this experiment that confirmed the existence of the nucleus.

ANSWER: gold foil experiment [or Rutherford experiment; or Geiger-Marsden experiment, but do not reveal]

[10] Although produced in the Rutherford lab, the experiment was mostly carried out by Ernest Marsden and this man, who also invented a “counter” that detects ionizing radiation.

ANSWER: Hans Geiger

8. Gordon Comstock’s failure to complete the poetry collection “London Pleasures” is central to one of this author’s novels, and in another of his novels, this author describes a man who longs for the days of ordering fifteen lashings, the Deputy District Commander Mr. McGregor. This author of *Keep the Aspidistra Flying* wrote a novel in which the protagonist receives a briefcase containing “The Theory and Practice of Oligarchical Collectivism.” He wrote about Winston Smith’s love for Julia in a book about a society ruled by Big Brother. For 10 points, name this author of 1984.

ANSWER: George Orwell [or Eric Arthur Blair]

Bonus: In this play, the sinister Goldberg and McCann kidnap the protagonist and take him to “Monty.” For 10 points each:

[10] Name this play, which is set at the boarding house of Meg and Petey Boles. Its title shindig is thrown for Stanley Webber.

ANSWER: *The Birthday Party*

[10] *The Birthday Party* was written by this British Nobel laureate who also wrote *The Dumbwaiter* and *The Caretaker*.

ANSWER: Harold Pinter



# HSAPQ

High School Academic Pyramid Questions

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Round 9

Category Quiz  
Bonus Choices

**Arts**  
**Current Events**  
**Geography**  
**History**  
**Literature**  
**Math Calculation**  
**Religion**  
**Social Science**

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Round 9

Category Quiz Tossups

9. Year and event required. Game 3 winner Bob Ojeda had been acquired by the winning team the year before from the losing team. Calvin Schiraldi lost each of the last two games, joining Dwight Gooden as two-game losers in the series. Dave Henderson homered to give the losers a lead in the tenth inning of Game 6, before the Mets scored the game-tying run on a wild pitch and the game-winning run on an error. For 10 points, name this series in which Mookie Wilson's ground ball went through Bill Buckner's legs.

ANSWER: **1986 World Series**

10. In the Peace of Knared, this ruler lost his only access to the North Sea, and he sent an expedition to Dunamunde in Livonia, signing the Peace of Stolbovo that year. His general Johan Baner led this ruler's army to victory at Wittstock, and allied with John George of Saxony in his most famous campaign. Freed by the Truce of Altmark to follow Christian IV's attempts, he crushed Tilly at Breitenfeld before winning at Lutzen, during which this ruler lost his life. For 10 points, name this king of Sweden who fought in the Thirty Years' War.

ANSWER: **Gustavus Adolphus** [or **Gustav II** Vasa]

11. The left side of this painting depicts acts of violence such as a bird eating a frog, a cat eating a bird, and a lion eating a deer. A balanced egg appears in the center of this painting, which includes a circle of men on horseback surrounding bathing women. Shrimp, clams, owls, and strawberries symbolize sexuality in its middle panel, and its rightmost panel features people crucified on musical instruments and surrounded by grotesque monsters in hell. For 10 points, name this triptych by Hieronymous Bosch.

ANSWER: *The **Garden of Earthly Delights***

12. In one novel, this character scorns simple plans to free a slave by insisting on using a rope-ladder and digging with case-knives instead of pickaxes. In another novel, this character reveals that he was engaged to Amy Lawrence, making a girl jealous. In a book named for him, this character sews his collar with black thread instead of white to fool his aunt and becomes trapped in a cave with his love interest, Becky Thatcher. For 10 points, give this character whose lighthearted "adventures" are described in a novel by Mark Twain.

ANSWER: **Tom Sawyer** [both or either name acceptable]

13. The rate at which this process occurs determines the width of grabens and horsts. Evidence of a geomagnetic reversal that is symmetric across a certain mountain range supports the theory of this action. The areas at which this action takes place are the active margins of a triple junction. This theory opposes Alfred Wegener's idea that continents "plow" through the sea, and it was theorized by Harry Hess. For 10 points, name this theory that continents move because they are pushed apart at mid-ocean ridges.

ANSWER: **sea floor spreading**

14. The port of Livingston in this country is a center of the Garifuna culture, and the largest port is Puerto Barrios. Towns in this country's highlands include Chichicastenango and Quetzaltenango, and this country's most famous lake is the volcano-ringed Atitlan. The cities of Santa Elena and Flores in the Peten region are located in the north of this country near the ruins of Tikal. For 10 points, name this Central American country that borders Belize, Honduras, El Salvador, and Mexico.

ANSWER: **Guatemala**



# HSAPQ

## High School Academic Pyramid Questions

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Round 9

Category Quiz Bonuses

**Arts:** One painting in this movement was influenced by stop-motion photographs of an animal being walked, Giacomo Balla's *Dynamism of a Dog on a Leash*. For 15 points, name this Italian artistic movement that emphasized speed and violence.

ANSWER: Futurism [or word forms]

**Current Events:** In 2007, it was ranked as the most developed nation in the world by the United Nations Human Development Index. However, the banking system collapse has led to riots and ultimately, for 15 points, the failure of what European country's government?

ANSWER: Iceland

**Geography:** Islands in this body of water include Qeshm and Hengam, and the Iranian port city of Bandar-e-Abbas and the Musandam Peninsula lie on it. For 15 points, name this strait that connects the Gulf of Oman and Persian Gulf.

ANSWER: Strait of Hormuz

**History:** An 1847 meeting at Heppenheim recommended that this entity be turned into a political body, but it remained an economic body only. For 15 points, name this customs union of German states, founded in 1834.

ANSWER: zollverein

**Literature:** This playwright wrote of Eddie Carbone and several Italian longshoremen in *A View from the Bridge*. For 15 points, name this playwright of *After the Fall* and *All My Sons*.

ANSWER: Arthur Miller

**Math Calculation:** A striker can kick the ball into an empty net from 30 feet away 80% of the time, and a goalie can stop that shot 95% of the time. For 15 points, find the chance that the striker scores from 30 feet.

ANSWER: 4% [or 1/25; or 0.04] [the striker scores if the ball would go into the net and the goalie does not stop it]

**Religion:** It is celebrated on the first of Shawwal and sees the breaking of the fast after the end of the month of Ramadan. For 15 points, name this Muslim holiday.

ANSWER: Eid ul-Fitr [prompt on Eid]

**Social Science:** This branch of psychology is based in part on the observation of the phi phenomenon. For 15 points, Max Wertheimer, Wolfgang Kohler, and Kurt Koffka were all members of what twentieth-century school of psychology, which stressed that the whole of a thing is greater than its parts?

ANSWER: Gestalt



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Round 9

Stretch Phase

15. He was inspired by *Four Saints in Three Acts* to write *El Salon Mexico*, and his clarinet concerto unusually contains only two movements linked by a cadenza. He wrote a ballet including movements like “Mexican Dance” and “The Open Prairie,” as well as one depicting the death in a gunfight of the title character. One of his most famous pieces uses neither woodwinds nor strings and was dedicated to the World War II efforts of the titular “common man,” while another included variations on “Simple Gifts.” For 10 points, name this American composer of *Rodeo* and *Appalachian Spring*.

ANSWER: Aaron Copland

Bonus: Answer the following about some European monarchs for 10 points each:

[10] This French king, also known as the Sun King, became king at the age of four, but did not rule until the death of his prime minister, Cardinal Mazarin.

ANSWER: Louis XIV [prompt on Louis]

[10] This Dutch ruler and Protestant fought against Louis XIV during the Anglo-Dutch War. He also reigned as king of England following the Glorious Revolution.

ANSWER: William III [or William of Orange; prompt on William]

[10] William replaced this Stuart ruler as king of England. His daughter, Mary II, ruled alongside William.

ANSWER: James II [prompt on James]

16. This man oversaw the implementation of the Virgin and Idle Lands program in northern Kazakhstan in 1953, and he consolidated his power at the expense of that of Nikolay Podgorny and Aleksey Kosygin. This man helped plan Polish General Wojciech Jaruzelski’s crackdown on Solidarity, and he agreed to the SALT II treaty with Jimmy Carter. For 10 points, name this Soviet leader from 1964 to 1982 whose namesake doctrine asserted the Soviet Union’s right to intervene in the affairs of other nations in the communist bloc.

ANSWER: Leonid Brezhnev

Bonus: For 10 points each, name these forces one might encounter while spinning.

[10] This force always points toward the center of the circle and has magnitude of mass times velocity squared divided by radius.

ANSWER: centripetal force [do not accept “centrifugal force”]

[10] In contrast, this pseudoforce is caused by a body’s inertia and results in the appearance that the body is actually being pushed away from the center of the circle.

ANSWER: centrifugal force

[10] This other pseudoforce results in an apparent deflection of the path of an object if the surface on which it lies is rotating. It is responsible for the rotation of hurricanes.

ANSWER: Coriolis force

17. These entities account for the attractive term in the Lennard-Jones potential, and one type of them is named for Keesom. The structure of geckos' feet enables the lizards to use these to adhere to walls, and they also include Debye forces. Their namesake also formulated a correction to the ideal gas law, and they include one type that results from the interaction of temporary dipoles, London dispersion forces. For 10 points, name these weak attractive forces between gas molecules, named for a Dutch scientist.  
ANSWER: van der Waals forces [prompt on early London dispersion forces]

Bonus: He aids Lilliput against Blefuscu. For 10 points each:

[10] Name this character who visits those lands, as well as Laputa and Glubbdubdrib in his namesake travels.

ANSWER: Lemuel Gulliver

[10] *Gulliver's Travels* was written by this Irish author, who satirically suggested eating babies in "A Modest Proposal."

ANSWER: Jonathan Swift

[10] In this land, Gulliver encounters men of enormous size.

ANSWER: Brobdingnag

18. This author wrote a work about Kuhn's sordid relationship with Gertrud Imthor and a novel about Hans Giebenrath's miserable time in a seminary, *Beneath the Wheel*. This author of *Klingsor's Last Summer* also wrote novels about Pistorius' mentorship of Emil Sinclair and Joseph Knecht's aspiration to become Magister Ludi by playing the title game. Besides *Demian* and *The Glass Bead Game*, he wrote a novel about the interactions of Pablo and Hermine with Harry Haller. For 10 points, name this German author of *Steppenwolf* and *Siddhartha*.

ANSWER: Hermann Hesse

Bonus: This man made a notable formulation of the problem of evil in his *Dialogues Concerning Natural Religion*, and in another work he examined the theory of cause. For 10 points each:

[10] Name this Scottish philosopher who distinguished between "relations of ideas" and "matters of fact" in *An Enquiry Concerning Human Understanding*.

ANSWER: David Hume

[10] Like John Locke, Hume was a proponent of this epistemological position, which argues that there are no innate ideas and that they must instead arise from experience.

ANSWER: empiricism

[10] This third of the major British empiricists supported an idealist form, arguing "to be is to be perceived" in works like *Three Dialogues Between Hylas and Philonous*.

ANSWER: George Berkeley

19. One work by this author of a *Commentary on the Sentences of Peter Lombard* divides truths into those that can be understood by the human mind and those that are too much for the intellect to understand. Another of his works includes five arguments for the existence of god and attempts a reconciliation of Aristotelian principles with a life of faith. This patron saint of schools is also known as Doctor Angelicus. For 10 points, name this theologian author of *Contra errores graecorum*, *Summa contra Gentiles*, and *Summa Theologica*.

ANSWER: Saint Thomas Aquinas [accept early Doctor Angelicus]

Bonus: Not every Southerner thought secession was a good idea. For 10 points each:

[10] The first president of the Republic of Texas, this man was removed from the governorship of Texas after he refused to join the Confederacy.

ANSWER: Sam **Houston**

[10] This Kentuckian published the abolitionist paper *True American* and served as minister to Russia throughout the war.

ANSWER: Cassius **Clay**

[10] This other Kentuckian proposed his namesake compromise as a last-ditch effort to preserve the Union. His compromise would have preserved slavery in Washington, D.C., extended the Missouri Compromise line to California, and strengthened the Fugitive Slave Law.

ANSWER: John **Crittenden**

20. In one speech, this politician argued that “if God wills” that “every drop of blood drawn with the lash shall be paid by another drawn with the sword,” it must be said “the judgments of the Lord are true and righteous altogether.” This politician insisted “We are not enemies, but friends” in a speech ending by appealing to “the better angels of our nature.” He urged listeners to act “with malice towards none, with charity for all” and “bind up the nation’s wounds” in his second inaugural address. For 10 points, name this president who declared “A house divided cannot stand” and gave the Gettysburg Address.

ANSWER: Abraham **Lincoln**

Bonus: Several angels look on from the left as a woman cradles Jesus on her lap in his *Madonna with the Long Neck*. For 10 points each:

[10] Name this painter of a *Self-Portrait in a Convex Mirror*.

ANSWER: **Parmagianino** [or Girolamo Francesco Maria **Mazzola**]

[10] Name the movement Parmigianino exemplifies, which in some incarnations, especially in Italy, was characterized by elongated features.

ANSWER: **Mannerism**

[10] This other Italian Mannerist painted Andrea Doria as Neptune as well as *Venus, Cupid, Folly, and Time*.

ANSWER: **Bronzino** [or **Agnolo** di Cosimo; or **Agnolo** Bronzino]

21. This substance is secreted through a duct that crosses the buccinator muscle and also through a duct that opens near the frenulum. Mumps inflames one set of glands that produce this substance, the parotid glands; the other glands that produce this substance are the submandibular and sublingual glands. It contains a namesake amylase that breaks down polysaccharides. For 10 points, name this fluid that keeps the mouth moist.

ANSWER: **saliva** [prompt on similar, colloquial terms like **spit**]

Bonus: He wrote a comic opera called *The Nose* from Gogol’s short story, and he memorialized victims of a Nazi massacre in his thirteenth symphony, subtitled “Babi Yar.” For 10 points each:

[10] Name this composer of the “Leningrad” and “First of May” symphonies.

ANSWER: Dmitri **Shostakovich**

[10] Shostakovich composed an opera about a character from this Shakespearean play “from the Mtsensk District.”

ANSWER: **Macbeth** [accept **Lady Macbeth** from the Mtsensk District]

[10] Shostakovich also wrote two concerti in A minor and C sharp minor for this instrument. Paganini wrote his caprices for this instrument.

ANSWER: **violin**

22. In one of this author's works, the protagonist gives a fieldbook of birds to his father Jakob, who only reads the Bible. That work ends with the downfall of the protagonist, Pieter, for violating the Immorality Act. Another of this author's works contains the real-life Bishop Trevor Huddleston. This author of *Too Late the Phalarope* and *Ah, But Your Land Is Beautiful* wrote about a man who meets up with Gertrude and Msimangu in order to uncover who murdered Mr. Jarvis. For 10 points, name this author who wrote of Stephen Kumalo in *Cry, the Beloved Country*.

ANSWER: Alan **Paton**

Bonus: "Tin disease" occurs due to this property, and it is often depicted on a phase diagram. For 10 points each:

[10] Name this property by which, at different temperatures and pressures, elements may exist in two or more distinct forms.

ANSWER: **allotropy**

[10] This element exhibits allotropy, as it can exist as hexagonal rings in graphite or have a three-dimensional bond structure in diamond.

ANSWER: **carbon** [or **C**]

[10] This other element has red, yellow, black, and white allotropes; the white form contains four atoms of this element, while the black form is a two-dimensional sheet.

ANSWER: **phosphorus** [or **P**]



# HSAPQ

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Round 9

Tiebreakers + Extras

1. This law exhibits deviations that can be modeled by the Joule-Thomson effect above a point at which expansion causes heating, the inversion temperature. Other deviations in it occur at high-pressure, low-temperature situations and can be described using the compressibility factor. This law, also named for Mariotte, has a namesake constant of proportionality that is the product of temperature, particle number, and the ideal gas constant. For 10 points, name this gas law that states that at constant temperature, pressure and volume of a gas are inversely proportional.

ANSWER: Boyle's law [or Boyle-Mariotte law before Mariotte is mentioned]

2. He dismissed Suetonius the same year his army built a structure to demarcate the border between the Roman Empire and Caledonia. His travels to Greece saw the completion of the Temple of the Olympian Zeus. He was known for his villa at Tivoli, and the Roman Empire reached its greatest extent under his reign. For 10 points, name this Roman emperor and successor to Trajan, the third of the Five Good Emperors, who has a namesake wall.

ANSWER: Publius Aelius Hadrianus

3. The art dealer Ambroise Vollard commissioned this man to create etchings for a special edition of Gogol's *Dead Souls*. He created a stained glass memorial to Dag Hammarskjold for the United Nations lobby, and a common theme in his paintings can be seen in his *Bouquet with Flying Lovers*. He depicted Christ in a Jewish prayer shawl amidst Nazi persecution in his painting *White Crucifixion*, and also painted an upside-down peasant woman next to the large head of a sheep. For 10 points, name this Russian-born French painter of *I and the Village*.

ANSWER: Marc Chagall

Extra 20-point bonus:

This mathematician was driven insane by his enemy Leopold Kronecker. For 10 points each:

[10] Name this mathematician who proved that the set of real numbers is larger than the set of natural numbers and founded set theory.

ANSWER: Georg Cantor

[10] Cantor also devised the continuum hypothesis, which this mathematician chose as the first of his list of twenty-three important unsolved mathematical problems in 1900.

ANSWER: David Hilbert

Extra 30-point bonus:

In this novel, a pickle dish is broken by Mattie Silver. For 10 points each:

[10] Name this novel set in Starkfield, Massachusetts whose title character tragically fails to kill himself by sledding into a large tree.

ANSWER: **Ethan Frome**

[10] This author of *Ethan Frome* wrote about Newland Archer's struggles with social expectations in *The Age of Innocence*.

ANSWER Edith **Wharton**

[10] At the end of *Ethan Frome*, this previously sick and gloomy wife of Ethan is seen caring for him and Mattie.

ANSWER: **Zenobia**