**Subject:** Studies in Language and Literature, Category 1 (studies of 1 or more literary works originally written in the language that the essay is presented--English)

**Question:** How did Eugene Gladstone O'Neill express the themes of family relationship and sadness in his work Long Day's Journey Into Night?

**Subject:** Studies in Language and Literature, Category 2 (Comparing essays written in English to another language)

**Question:** How does the writing of Japanese horror artist and novelist Junji Ito contrast with the writing of American horror novelist Stephen King?

**Subject:** Studies in Language and Literature, Category 3 (Studies in language based on one or more texts originally produced in English)

**Question:** How does the use of language and image by UK fashion and beauty magazines *Cosmopolitan, Glamour,* and *Look* construct a particular body image for women?

**Subject:** Language Acquisition Category 1-- Language:

**Question:** To what extent does geography influence the use of French idiomatic expressions? **Approach:** An investigation into the use of idiomatic expressions in Francophone countries that reflect the local geography

**Subject:** Language Acquisition Category 2--Culture and Society:

**Question:** How do various terms used to refer to foreigners and immigrants in popular media reflect various shades of discrimination in \_\_\_\_\_\_ society? **Approach:**  a socio-linguistic investigation into the connotation of various terms for immigrants

**Subject:** Language Acquisition Category 3-- Literature:

**Question:**  How does (author) use sensory imagery is his/her novel \_\_\_\_\_\_

**Subject:** History

**Question:** In what way did the Catholic Church affect politics in the Kingdom of Spain during the Dark Ages?

**Question:** How did the works of classical Greek philosophers influence the domestic policy of Thomas Jefferson?

**Subject:** Biology

**Question:** How does the DNA sequence of a transthyretin (TTR) gene affect whether Familial Amyloidotic Polyneuropathy (FAP), Familial Amyloidotic Cardiomyopathy (FAC) or Senile Systemic Amyloidosis (SSA) form?

**Question:**  To what extent is the distribution and abundance of the sea aster dependent on soil salinity? **Approach:**  survey of vegetation using ecological techniques

**Subject:** Chemistry

**Question:** Does increasing reflux time increase the percent yield of aspirin for the reaction between acetic anhydride and salicylic acid? **Approach:**  experimental: aspirin is produced from acetic anhydride and salicylic acid at varying reflux time intervals

**Question:** What would be the reduction in CO2 emission (measured as % change by mass) in Germany of replacing all coal-fired power plants with modern CH4 power stations? **Approach**: Data based: calculate the CO2 emission per kWh using public domain data for the heat of combustion, composition and efficiency of coal and natural gas power plants

**Question:** Can the physical and chemical properties of the undiscovered elements be predicted using the law of periodicity? **Approach:**  Literature based: examine the ionization potential, electron affinity and other periodic trends, predict if the super-heavy elements obey the periodic table.

**Subject:** Physics

**Question:** What is the relationship between the length of an exhaust pipe and the frequency of the sound it emits? **Approach:**  Apply theory and student-designed simulation recording the data.

**Subject:** Math

**Question:** What was the role of mathematics, and geometry in particular, in navigation when we relied on the stars? Does it still play a part now we have man-made satellites? **Approach:** using one the two geometric representations of the Earth (spherical or ellipsoidal), describe how maps and charts were produced to assist navigators in the past).

**Subject:** Theatre

**Question:** How did the casting of the leading lady in Cole Porter's Anything Goes affect each production on Broadway?

**Subject:** Visual Arts

**Question:** How do the Peanuts comics, written by Charles Schultz, show visual language?

**Subject:** Film

**Question:**  To what extent can Clint Eastwood be said to have resurrected the dying genre of the Western? **Approach:**  An investigation and discussion of whether Clint Eastwood re-established the Western as a credible genre with specific reference to *the Outlaw Josey Wales* (1976)*, Pale Rider (*1985), and *Unforgiven* (1992).

**Subject:** Music

**Question:** How do the musical influences found in pieces X, Y, Z by the rock group Muse impact upon the listener experience? **Approach:** analysis of melodic, rhythmic and harmonic elements in pieces X, Y, Z by Muse that reveal influences from Chopin, Schubert, and … OR a literature review examining the influence of composers of the Romantic and how they have shaped the musical style of the group