

**High Tech High Chula Vista Presentation of Learning**  
**11<sup>th</sup> Grade, 1<sup>st</sup> Semester, January 2010**

The presentation of learning is an integral way to show your growth both academically and socially during your years at High Tech High. The junior year POL will focus on your growth in your four academic classes: math, biology, humanities, and your exploratory course. Your junior year presentation of learning will be a two part process.

**Part I: Written Response**

You will need to write a response to ONE of the essential questions listed below for EACH of your courses. Each response should be at least one page, double-spaced, in length. In your response, you want to be sure to show your understanding of the question you selected. Also, be sure that your response completes all the requirements below:

- Uses professional and academic language
- Shows both your strengths and weaknesses in your individual learning and understanding
- Includes not only the content you learned, but how you went about learning it
- Shows how what you learned or how you learned it has changed your view on the topic
- Provides specific evidence that documents your learning and growth
- Cites specific examples of when you included aspects of the Habits of Heart and Mind

Your four POL written responses should be posted on your **Digital Portfolio by Thursday January 7<sup>th</sup> at 3:30.**

**Part II: Presentation**

The day of your presentation will include an interview with your three core teachers, exploratory teacher, an adult (of your choosing or one provided), and three students (that you select). You should come to the presentation prepared to present evidence and talk at length about what you included in your written response. Your presentation panel will be a ten minute question and answer with a five minute follow up discussion to provide feedback and assessment. You will be scored on each of your content areas (math, biology, humanities and exploratory) by the following guidelines:

**E—Exceeds Expectations; M—Meets Expectations; R—Refinement Needed**

You need to receive at least a “Meets Expectations” for all of your courses, otherwise you will need to refine your presentation and present your learning again on Friday, January 15th.

\*\*\*Please see POL rubric for more specific information on assessment\*\*\*

**Below you will find your three core courses and the exploratory courses. Please craft a one- two page written response for each of the courses below:**

### **Humanities--**

During the course of our study we have addressed America's founding documents, issues raised by industrialization, immigration, urbanization, consumerism, culture, prohibition, civil rights, and literature. We have been analyzing all of these time periods as a way to come to a better understanding of America's sense of identity. How has our study of history and literature helped you to solidify what it means to be an American? How has our study, helped you to decide your American Dream?

### **Math III—**

1. How are functions used to describe the world around us?
  - What is a function?
  - In practice, why would one graph a function? What information does the graph of a function illustrate?
  - Be sure to include at least 3 specific examples in your response. (Think about the disease project, other topics from math class, topics from other classes, and your own experience.)

--OR--

2. What is the purpose of linear programming (LP)?
  - Discuss the key components of an LP problem.
  - What real-world problems is linear programming used for? Give 1-2 specific examples. For each one, discuss possible variables, constraints, and objective functions.
  - What are the *limitations* of using linear programming to solve real-world problems? Give an example of a problem that *can't* be formulated as an LP problem.
  - Why are matrices often used in solving LP problems? Discuss at least one real-world situation which would require the use of matrices.

### **Biology—**

The broad definition of biology is “the study of life.” With that in mind, how does the study of biological science help to explain or define who we are? How has your own definition of biology changed as this semester has progressed? In addition, think about the advent of technology and the advancement of biotechnology in the last century and how those advancements have altered our view of the study of life?

Use one of the following bullet points as a springboard to answer the questions posed above. Cite specific information you have learned and projects/assignments you have worked on that will help to answer these questions.

- Cell Structure/Endomembrane System (Organelles)
- Cell Processes (Cellular Respiration, and Photosynthesis)
- Cell Division (Mitosis, Meiosis, Stem Cell Development)
- Bacteria, Viruses and Protozoa
- Genetics (choose either or both)
  - DNA and its processes (Replication/Transcription/Translation)
  - Heredity (Passing down the genes)

**Exploratory— Please respond to the prompt for the course you completed this semester.**

**Spanish**-This semester we have read, analyzed, critiqued, and discussed, 14 different short stories from a variety of authors from all parts of Latin America. Which story inspired you? Caused you to reflect on you as a student, as a citizen, as a son/daughter, sibling etc.? What was so thought provoking about this piece? Connect it to your life, what will you take from this piece? In the art piece that you created how is this reflected? Explain the significance? What are some important literary elements that you reflected on in order to produce this piece?

For your POL please provide the actual art piece as well as a written response explaining your piece. For class the written portion will be in Spanish, and for the sake of the presentation, be ready to share a brief summary of what it means in English.

**Advanced Painting**—Write a one page reflection that addresses the questions listed:

What was the most challenging project in class this semester? Why? Did any of the projects that you completed exceed your own artistic expectations? Why or why not? Talk about how you interpreted the theme for the project "Metamorphosis". What materials did you use to complete the Metamorphosis project? How do you feel that you have grown as an artist this semester?

Be prepared for questions on any of these topics on the day of your POL.

**Talk Town--**

**Marisol**

What is the importance of knowing Spanish or any other language? Use your experiences in Talk Town to justify your answer. What are the advantages and/or disadvantages of introducing languages in a bilingual setting (classroom)? Would you have preferred to learn a language in a bilingual setting like the one you taught in? Why or why not?

**Patrick**

1. How did group and group relationships affect the final product of your Talk Town piece? (Technology, Lesson, Puppet, etc...) What did you do that helped? What could have done to make things go better?

--OR--

2. How does technology affect the way the final multimedia segment turned out? (Lighting, shooting, editing, after effects, etc.) What did you do that helped? What could have done to make things go better? How will you manage your time with technology different in the future to reflect your experiences this semester?