

Summer Advanced Placement Assignments 2023

Summer work is required in the following classes. Assignments details for each course are below or in the Schoology Upper School Students [Summer Resources](#) folder. It is expected that the summer assignments be completed by the first day of class.

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1. AP Physics C

For students who have not previously taken a calculus course at Harker:

Since AP Physics C requires a foundation of calculus, you must purchase and read *Quick Calculus: A Self-Teaching Guide, 2nd Edition* by Daniel Kleppner and Norman Ramsey (ISBN 0-471-82722-3). This book is available used from betterworldbooks.com for less than \$10. A basic calculus exam will be given on the first Friday of the school year. You must earn at least a B on this exam in order to continue in the class.

Questions? Contact Dr. Nelson at Eric.Nelson@harker.org or Mr. Spenner at Chris.Spenner@harker.org

2. AP Latin

In order to complete the summer homework for AP Latin, you must have the textbook *Vergil's Aeneid* by Barbara Weiden Boyd (ISBN 978-0-86516-764-3) and an English translation of *The Aeneid*. You may choose which translation to buy; I recommend David West's prose translation or Allen Mandelbaum's verse translation. NB: do NOT buy Mandelbaum's *The Essential Aeneid*, which is an abridgement. *Please purchase these books early in the summer so you will have time to complete your assignments before returning to school in August.*

1. Read "Introduction" in Boyd's *Vergil's Aeneid*, pp. xiii-xxxii. Take notes as you read; you will be assessed on this introductory content upon returning to school and good notes will help you prepare for and do well on this assessment.
2. Read Book 1 of your English translation of *The Aeneid* and answer the questions \ at: <http://bit.ly/VergilQuestions>. NB: you must be logged into your Harker Google account in order to access this document.
3. Study the *General Word List* pull-out at the end of Boyd's *Vergil's Aeneid*. This is a list of words that appear 24 or more times in *The Aeneid*. **Do not be alarmed at the length of this list; you will already know most of these words.** *Identify those words you don't know and learn them.* You will be assessed on this vocabulary upon returning in August.

4. Review grammar. *You should know your verb, noun, and pronoun forms cold.* If you don't know them, learn them. Review the various case uses. You can find the excellent grammatical appendix to your Vergil textbook, which can be used for comprehensive review, here: <http://bit.ly/VergilGrammar>.

Questions? Contact Mr. Paterson at Scott.Paterson@harker.org

3. AP English Literature

Students need to read Wuthering Heights by Emily Bronte and Kindred by Octavia Butler.

For more information, see link below.

<http://library.harker.org/APLit>

4. AP French Language

Le travail d'été de Français AP Année scolaire 2023-2024

Use the document below to put your answers for all parts of the summer work. If you have any questions, please contact me via e-mail (galina.tchourilova@harker.org). Your work will be collected on the first day of school. *Merci et bonnes vacances !*

https://docs.google.com/document/d/14a3uw29cPmqH9pWYiv6X7JXb5bfr9h6_ChfpIyMLLJM/edit?usp=sharing

5. AP Spanish Literature

AP Literatura y Cultura en español: Lecturas del verano

Bienvenido a la clase de AP Literatura y Cultura en español. Este es un curso intensivo de estudio de la literatura española y latinoamericana, por eso los estudiantes deben hacer un poco de trabajo en el verano. Las obras que vas a leer son cuatro relatos cortos. No te preocupes si no comprendes algunas cosas, ya que las estudiaremos más detalladamente en la clase.

Necesitas comprar el libro de texto: ***Azulejo (2nd edition)*** y leer los siguientes cuentos:

1. ***La siesta del martes*** (1962) de Gabriel García Márquez
2. ***El ahogado más hermoso del mundo*** (1968) de Gabriel García Márquez
3. ***Mi caballo mago*** (1964) de Sabine Ulibarrí
4. ***Dos palabras*** (1989) de Isabel Allende

Cada lectura viene acompañada de una introducción, que hay que leer y pensar, y unas preguntas que debes responder por escrito (¡porque si no lo leo, no lo creo!)

LA SIESTA DEL MARTES:

Antes de leer: (Piensa)

- ¿Has ocultado alguna vez tus emociones para mantener la dignidad?
- ¿Crees que es insincero ocultar las emociones?
- ¿Es posible ser pobre y digno a la vez?

- ¿Sabes qué es el luto?
- ¿Qué tiene de especial el día martes?
- ¿Hay situaciones que le obligan a uno a robar?

Pasos para la comprensión del texto: (Responde por escrito)

Responde a las ocho preguntas de **Sugerencias para el análisis del cuento** del libro de texto (pg. 362)

EL AHOGADO MÁS HERMOSO DEL MUNDO:

Antes de leer: (Piensa)

- ¿Conoces la novela *Los viajes de Gulliver*? ¿De qué trata?
- ¿Conoces a alguien muy alto o bajo? ¿Cómo se siente esa persona con respecto a su altura?
- ¿Crees que una persona afuera de tu círculo familiar y de amigos te puede ayudar a cambiar algún aspecto de tu vida?

Pasos para la comprensión del texto: (Responde por escrito)

Responde a las nueve preguntas de **Sugerencias para el análisis del cuento** del libro de texto (pg. 355)

DOS PALABRAS:

Antes de leer: (Piensa)

- ¿Se le puede considerar a un escritor como una persona que “vende” palabras? ¿Qué tiene que hacer con esas palabras antes de venderlas?
- Cuando has comprado una tarjeta de Hallmark, ¿has leído antes el contenido? Cuando la entregas, ¿crees que esos sentimientos son tuyos? ¿estás comprando palabras?
- ¿Crees que es cierto el refrán inglés ‘The pen is mightier than the sword’?

Códigos para la comprensión: (Lee)

Código cultural:

En algunos pueblos y ciudades latinoamericanas donde todavía hay personas analfabetas existe el oficio de escribano: persona que sabe leer y escribir y que por un precio determinado escribe cartas o documentos, o las traduce, a sus clientes.

Código histórico:

La historia latinoamericana se caracteriza por guerras y conflictos civiles entre grupos opuestos que luchaban por el poder. Con frecuencia un oficial poderoso del ejército pronunciaba un golpe de estado militar y asumía el poder en forma de caudillo o dictador. Muchas veces estos hombres eran incultos y con poca habilidad para gobernar.

Pasos para la comprensión del texto: (Responde por escrito)

Responde a las ocho preguntas de **Sugerencias para el análisis del cuento** del libro de texto (pg. 381)

MI CABALLO MAGO:

Antes de leer: (Piensa)

- 1) ¿Te gustan los caballos? ¿Qué caballos te gustan? ¿Sabes montar a caballo? ¿Qué crees que es lo mejor de montar a caballo?
- 2) En tu transición de niño a joven adolescente, ¿qué cambios (tanto físicos como psicológicos) has notado?
- 3) ¿Has soñado alguna vez con hacer algo grande en la vida? ¿qué?
- 4) ¿Has recibido alguna vez un premio? Explica la experiencia.
- 5) ¿Has perdido a alguien o algo que querías mucho? ¿Cómo te sentiste?

Pasos para la comprensión: (Responde por escrito)

Responde a las nueve preguntas de **Sugerencias para el análisis del cuento** del libro de texto (pg. 476)

Questions? Contact Ms. Garcia at Isabel.Garcia@harker.org

6. AP Chemistry for 11th & 12th Graders

Welcome to AP Chemistry!

Text: Chemistry, 10th AP Edition, Steven S. Zumdahl; Susan A. Zumdahl; Donald J. DeCoste

Note: There is a 10th non-AP edition that does NOT have multiple choice questions at the end of each chapter, summer HW does have MC questions that I have assigned.

You need to purchase either the hard copy of the above text or an e-book. Please see note below:

Hard copy Info: ISBN 13: 978-1-305-95773-2

ISBN 10: 1-305-95773-3

MBS Direct SKU#: 1988105

The Harker bookstore will open on July 10th

e-book Info: ISBN 9780357921456 Purchase directly from the publisher. Call **1-800-354-9706** have your credit card and student e-mail address available.

[This summer review HW](#), which is posted to Schoology, has questions from chapters (1-5) as well as some basic organic chemistry. I have selected specific questions from each chapter that you should focus on. The practice problems are taken from end of chapter including multiple choice (MC). You may check your answers from solutions manual. I will post answers when school opens. An important part of succeeding in this course is **WRITING** clearly. So, please do your HW on a separate paper in a notebook, in a clear and legible manner with a dark pencil or pen! If I cannot read, you will lose points!

You will have **TWO** quizzes on topics from chapters (1-5) within first two weeks. This is to assess your preparedness for this course. **Be sure to complete** as much of the review assignment as possible by the time school starts in August, as the **first exam** will have questions from these chapters. HW is entirely review of just the beginning chapters from Honors Chemistry. Regular chemistry students will also have covered all of it except for chapter 5, gases. This is an easy chapter and you should focus on properties of ideal gases and use of ideal gas equation for now.

While, we will not be spending class time on this assignment, there will be office hours available before the first exam.

Once the courses are all set up on Schoology, I will give you instructions on how to submit your HW.

7. AP Japanese Language and Culture

Visit the Schoology Upper School Students group. In the "[Summer Resources](#)" folder in the "Resources" section, you will find a pdf titled "AP Japanese Assignments 2023". Complete the assignments by the first day of class.

8. AP Chinese

暑假学习目标 Summer study objective:

一. 口语 Spoken language:

中文学习的四大方面的能力：听、说、读、写，都将在你的 AP 中文班得到进一步的加强。在你的暑假自学的时候，你首先需要重点练习以下方面的口语，要能够简单、明白、有条理地表达自己的想法：

1. 你的姓名、出生地和现在生活的地方
2. 介绍你在学校的学习和生活情况；会选课、选专业
3. 在餐馆点餐；你的饮食习惯和爱好
4. 在商店买东西
5. 你理想的男/女朋友是怎样的？你们如果吵架了，你会怎么做？
6. 电脑和网络在你的学习和生活中的作用；不做网迷和电脑迷
7. 你打过工吗？学生打工的好处和害处
8. 在教育观念上，父母和你的看法一样吗？
9. 了解中国：地理位置、人口、气候、重要的城市和地区.....

二. 文化重点 Culture highlights:

了解中国文化是 AP 中文班学习和备考的重要内容之一。以下的文化要点是你需要了解和能够简单表述的：

1. 中国的四大菜系以及每个菜系的特点
2. 买东西时候讨价还价
3. 中国的教育体系
4. 中国年轻人的交友方式
5. 中国的网络语言
6. 高山流水遇知音；望子成龙 望女成凤
7. 中国的风景名胜

三. 词汇和语法 Vocabulary & grammar:

你需要继续复习和巩固你学过的 IC Chinese level 1&2 课文中的词语和句式，能够熟练地正确地在你的说话和作文中运用它们。

自学内容 Resources for the AP Chinese self-study:

1. 纪录片《舌尖上的中国》：
<https://www.youtube.com/watch?v=KLcvFT8WGRI>
2. 电视剧《琅琊榜》
<https://www.ifvod.tv/play?id=tnNYiOLGG83>
3. 电视剧《致我们单纯的小美好》
<https://www.youtube.com/watch?v=ReRLQ9GN2iQ>
4. Chinese TV program 《非诚勿扰》
https://www.youtube.com/watch?v=IJ5v79G3cH0&list=PLtFDvh1SGFq_juwjyH6s08o9eCTrvTd7b

要求 Requests:

1. Choose two episodes from #1 & #4 on the list above to watch.
2. Choose one TV play series from # 2 & #3 on the list above to watch.
3. Write a video review in Chinese for each of the video that you have watched. In your report, describe this video in detail and explain its significance. Each of your three video review should be in length of 200 characters or more.
4. Your video review reports are due by the first day of your AP Chinese class.

9. AP Computer Science A

Read the Harker Programming Style

Guide: https://drive.google.com/file/d/1BfezP2mL2Eot0XzptN1OWRje4wUA_xlF/view?usp=sharing

Your code and comments are expected to follow the style guide throughout the school year.

Complete the following chapters in the *Barron's AP Computer Science A* by first reading the chapters and then completing the multiple-choice questions at the end of each chapter. Assess how well you understood the materials by using the provided answer keys that have explanations.

Chapter Header	Level of Proficiency	Barron's 8 th Edition Preferred Edition	Barron's Premium 2022-2023
Introductory Java Language Features	Strong proficiency with types and identifiers, operators, and control structures. Do not need knowledge of storage of errors and exceptions, numbers, including hex and octal numbers.	Ch. 2 pp. 69-70, 75-85. Do as many of the MC as you can from pp. 87-102.	Ch. 2. Do the MCQ at the end of Chapter 2.
Classes and Objects	It is critical that students are proficient with the vocabulary for these concepts: objects, classes, public, private, methods, parameters, constructors, accessors, mutator, and overriding. May not yet be comfortable with static, this, super, references, and scope.	Ch. 3 pp. 103-121. Do as many of the MC as you can from pp. 122-142.	Ch 3. Do as many of the MC as you can at the end of Chapter 3.
Some Standard Classes	Strong proficiency with the <i>String</i> and <i>Math</i> classes. May not yet be comfortable with <i>Object</i> class and <i>Math random</i> class.	Ch. 5 pp. 191-194	Ch. 5. Focus on the <i>Math</i> and <i>String</i> Class Section, which is about 6 pages long. Solve many of the MCQ at the end of Chapter 5.
Arrays and Array Lists	Comfortable with one-dimensional arrays and can solve basic problems with them. Such examples include summation, min/max, and average. Do not need to know 2D arrays and the <i>ArrayList</i> class.	Ch. 7 pp. 247-254	Ch. 7. Focus on one-dimensional arrays. Solve the 1-D array MCQ at the end of Chapter 7.

Questions? Contact the Computer Science Department Chair, Dr. Eric Nelson, at EricN@harker.org.

10. AP Computer Science A with Data Structures

Read the Harker Programming Style

Guide: https://drive.google.com/file/d/1BfezP2mL2Eot0XzptN1OWRje4wUA_xlF/view?usp=sharing

Your code and comments are expected to follow the style guide throughout the school year. Complete the following reading assignments from the *Barron's AP Computer Science A* book:

Complete the following reading assignments:

Chapter Header	Level of Proficiency	Barron's 8 th Edition Preferred Edition	Barron's Premium 2022-2023
Introductory Java Language Features	Strong proficiency with types and identifies, operators, and control structures.	Ch. 2 pp. 69-70, 75-85. Do as many of the MC as you can from pp. 87-102.	Ch. 2. Do the MCQ at the end of Chapter 2
Classes and Objects	It is critical that students are proficient with the vocabulary for these concepts: objects, classes, <i>public</i>, <i>private</i>, methods, parameters, constructors, accessors, mutators, and overriding, inheritance, polymorphism including the use of keywords <i>this</i> & <i>super</i>.	Ch. 3 pp. 103-142. Do as many of the MC as you can from pp. 122-142.	Ch 3. Do many of the MCQ at the end of Chapter 3.
Inheritance and Polymorphism	It is critical that students are proficient with inheritance and polymorphism.	Ch. 4 pp. 143-153	Ch. 4 entire chapter pp. 139-152
Some Standard Classes	Strong proficiency with the <i>String</i>, <i>Math</i> class.	Ch. 5 pp. 191-194	Ch. 5 entire chapter pp. 171-184
Arrays and Array Lists	Knowledge of fundamental data structures <i>Arrays</i> and <i>ArrayLists</i>. Comfortable with 1D and 2D arrays and can solve basic problems with them.	Ch. 7 pp. 247-305	Ch. 7 entire chapter pp. 239-264
Recursion	Must be able to use recursion as a problem-solving technique. Must have the ability to trace the call sequence and output of recursive methods and write recursive solutions to problems.	Ch. 8 pp. 306-339	Ch. 8 pp. 309-317

Questions? Contact the Computer Science Department Chair, Dr. Eric Nelson, at EricN@harker.org.

11. AP United States History

The APUSH teachers have developed a [Google Doc](#) of your summer assignment. Complete the 1 required task by the first day of class.

12. AP Biology for 12th graders

This [summer assignment](#), which is posted on Schoology, is a transition from junior biology allowing you to review material that is part of the AP biology curriculum that was already taught in junior biology. This assignment will also provide an introduction to the textbook, develop good note-taking skills and free up time during the academic year for additional lab and classroom activities. You will be tested on this material in the second week of classes. Your reference for this assignment is Campbell biology, 12th edition: ISBN-10-0135188741.