

# Summer Advanced Placement Assignments 2021

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.

1. AP Physics C (Page 1)
  2. AP Latin (Page 1)
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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](http://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 [EricN@harker.org](mailto:EricN@harker.org), Mr. Spenner at [Chriss@harker.org](mailto:Chriss@harker.org) or Dr. Brada at [markb@harker.org](mailto:markb@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 [ScottP@harker.org](mailto:ScottP@harker.org)

### 3. AP English Literature

Students need to read Jane Eyre by Charlotte 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 2021-2022

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 ([galinat@harker.org](mailto:galinat@harker.org)). Your work will be collected on the first day of school.

*Merci et bonnes vacances !*

[https://docs.google.com/document/d/1F2EX6Y\\_GGgAgLSmiNH0xCcv\\_aDu1LINz-4Lqyw-2DOQ/edit?usp=sharing](https://docs.google.com/document/d/1F2EX6Y_GGgAgLSmiNH0xCcv_aDu1LINz-4Lqyw-2DOQ/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: ***Abriendo Puertas: ampliando perspectivas*** 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 Ulibarri
4. ***Dos palabras*** (1989) de Isabel Allende

Cada lectura viene acompañada de una introducción, que hay que leer o 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 “un martes”?
- ☐ ¿Hay situaciones que le obligan a uno a robar?

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

1. El relato empieza con una descripción realista de una madre y una hija en el vagón de un tren. ¿Cuál es su situación económica? ¿Adónde van?
2. Al bajar del tren, ¿cómo encuentran la ciudad? ¿por qué está todo vacío?
3. ¿Cómo reacciona la madre cuando la mujer que abre la puerta de la casa del cura le niega hablar con él?
4. ¿Cómo es la casa del cura? ¿Qué nos indica acerca de su estatus social?
5. Finalmente sabemos por qué ha ido la madre al pueblo. Explica.
6. Comenta la pregunta del cura a la madre sobre si nunca había intentado hacer que el hijo tomara el buen camino. ¿Qué indican sus palabras sobre la culpabilidad?
7. ¿Qué respuesta le da la madre?
8. La actitud del cura ante la historia de la madre representa un discurso anticlerical. Trata de interpretar las siguientes acciones:
  - ☐ Su escepticismo (no cree a la madre)
  - ☐ Sus bostezos
  - ☐ No tener que tocar la puerta al regresar del cementerio
  - ☐ Que dieran una limosna a la iglesia
9. Al final la hermana del cura nota que hay gente en la calle mirando. ¿por qué?
  - ☐ ¿Qué les sugiere a la madre y a la hija?
  - ☐ ¿Qué decide hacer la mujer a pesar de lo que le ha dicho el cura?
  - ☐ ¿Cómo interpretas la preocupación del cura y la decisión de la madre?

***EL AHOGADO MÁS HERMOSO DEL MUNDO:***

**Pasos para la comprensión del texto: (Responde por escrito)** Responde a las cuatro preguntas del libro de texto (pg. 596) ***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 preguntas del libro de texto (pg. 637)

## ***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 preguntas del libro de texto (pg. 586)

Questions? Contact Ms. Garcia at [IsabelG@harker.org](mailto:IsabelG@harker.org)

## **6. AP Chemistry for 11th & 12<sup>th</sup> Graders**

**Text: Cengage Unlimited** must be purchased through **Cengage**. Purchase a **one-year subscription for 179.99\$** or **two-year subscription for 239.99\$** depending on **courses you are taking**. Once you get subscription, look at **Chemistry (9<sup>th</sup> edition) by Steven S. Zumdahl and Susan A. Zumdahl**. There is a 10<sup>th</sup> edition also, but my problem numbers are from 9<sup>th</sup> edition.

**Welcome to AP Chemistry!** Questions are on [Schoology: Upper School Students: Resources: Summer Resources](#)

This summer review HW 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 which is also available on Cengage. I have also provided answers to MC and some questions.

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. I will also set up an optional review session if there is interest. If you need some formal help, **Mr. Korin has agreed to set up a possible review day in mid-August**. Please contact him if you find that such day might be necessary. This is not tutoring, but a review session for a group of students.

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

## **8. 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 2021". Complete the assignments by the first day of class.

## 9. 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达的：

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。

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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](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.

## 10. AP Computer Science A

Read the Harker Programming Style

Guide: [https://drive.google.com/file/d/1BfezP2mL2Eot0XzptN1OWRje4wUA\\_xlF/view?usp=sharing](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 *Barron's AP Computer Science* 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 <sup>th</sup> Edition Preferred Edition	Barron's 9 <sup>th</sup> Edition
Introductory Java Language Features	<b>Strong proficiency with types and identifies, operators, and control structures.</b> Do not need knowledge of storage of errors and exception, 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 pp. 66-68, 71-83. Do as many of the MC as you can from pp. 85-99.
Classes and Objects	<b>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, mutator, and overriding.</b> May not yet be comfortable with <i>static</i> , <i>this</i> , <i>super</i> , references, and scope.	Ch. 3 pp. 103-121. Do as many of the MC as you can from pp. 122-142.	Ch 3 pp. 100-118. Do as many of the MC as you can from pp. 119-138.
Some Standard Classes	<b>Strong proficiency with the <i>String</i> class.</b> May not yet be comfortable with <i>Object</i> class and <i>Math</i> class.	Ch. 5 pp. 191-194	Ch. 5 pp. 169-173
Arrays and Array Lists	<b>Comfortable with one-dimensional arrays and can solve basic problems with them.</b> 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 pp. 226-234

Questions? Contact the Computer Science Department Chair, Dr. Eric Nelson, at [EricN@harker.org](mailto:EricN@harker.org).

## 11. AP Computer Science A with Data Structures

Read the Harker Programming Style

Guide: [https://drive.google.com/file/d/1BfezP2mL2Eot0XzptN1OWRje4wUA\\_xlF/view?usp=sharing](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 in *Barron's AP Computer Science 8th Edition*:

Complete the following reading assignments:

Chapter Header	Level of Proficiency	Barron's 8 <sup>th</sup> Edition Preferred Edition	Barron's 9 <sup>th</sup> Edition
Introductory Java Language Features	<b>Strong proficiency with types and identifies, operators, and control structures.</b>	Ch. 2 pp. 69-70, 75-85. Do as many of the MC as you can from pp. 87-102.	Ch. 2 pp. 66-68, 71-83. Do as many of the MC as you can from pp. 85-99.
Classes and Objects	<b>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> &amp; <i>super</i>.</b>	Ch. 3 pp. 103-142. Do as many of the MC as you can from pp. 122-142.	Ch 3 pp. 100-138. Do as many of the MC as you can from pp. 119-138.
Inheritance and Polymorphism	<b>It is critical that students are proficient with inheritance and polymorphism.</b>	Ch. 4 pp. 143-153	Ch. 4 pp. 139-148
Some Standard Classes	<b>Strong proficiency with the <i>String</i> class.</b>	Ch. 5 pp. 191-194	Ch. 5 pp. 169-173
Arrays and Array Lists	<b>Knowledge of fundamental data structures Arrays and <i>ArrayLists</i>. Comfortable with 1D and 2D arrays and can solve basic problems with them.</b>	Ch. 7 pp. 247-305	Ch. 7 pp. 226-285
Recursion	<b>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.</b>	Ch. 8 pp. 306-339	Ch. 8 pp. 286-318

Questions? Contact the Computer Science Department Chair, Dr. Eric Nelson, at [EricN@harker.org](mailto:EricN@harker.org).



## 12. AP United States History

The APUSH teachers have developed a [GoogleDoc](#) of your summer assignments. Complete the 3 required tasks by the first day of class.