

2022 Summer Reading and Assignments



The books and assignments listed below are required for students entering and returning to Ojai Valley School. Our goal is for students to read thought-provoking literature over the summer that will stimulate ideas for discussion at the start of the year, and to get a jump on Advanced Placement coursework. This summer's all-school selection by Bonnie Tsui is a powerful story that combines history, journalism and memoir. *Why We Swim* will take us to Iceland, Baghdad and Alcatraz. We will swim with Olympic champions and Samurai. Bonnie Tsui immerses herself in the activity she loves. We can learn from her "love letter to water." This book will inspire us to embrace our academic, athletic and artistic pursuits in the fall. It is the student's responsibility to purchase this book and the required books listed below and to complete any accompanying assignments. It should be possible to obtain inexpensive copies of these books at Barnes & Noble, or online at Amazon.com or other websites.

All School	<i>Why We Swim</i> by Bonnie Tsui
English 9	<i>The Outsiders</i> by S.E. Hinton
English 10	<i>The Unlikely Thru-Hiker</i> by Derik Lugo
English 10 Honors	<i>Pride and Prejudice</i> by Jane Austen
English 11	<i>See list and required assignments below</i>
AP English Language (11 th)	<i>See list and required assignments below</i>
English 12	<i>This Boy's Life</i> by Tobias Wolff
AP English Literature (12 th)	<i>Babbitt</i> by Sinclair Lewis <i>The House of Mirth</i> by Edith Wharton <i>See required assignment below</i>
World History	<i>King Leopold's Ghost</i> by Adam Hochschild

US History	<i>The Underground Railroad</i> by Colson Whitehead
AP US History	<i>See required assignment below</i>
AP World History	<i>See required assignment below</i>
AP Psychology	<i>Forty Studies that Changed Psychology: Explorations into the History of Psychological Research</i> by Roger R. Hock (7th edition) <i>See required assignment below</i>
AP Calculus AB	<i>See required assignment below</i>
AP Environmental Science	<i>Climate Change 101- See required assignment below</i>
AP Computer Science Principles	Pick and read any three chapters of the free digital online book (they can be read in any order), “Blown to Bits” by Hal Abelson, Ken Leedsen, and Harry Lewis . Write three paragraphs for each chapter (9 total) explaining how the reading has shaped your understanding of technology advancement and its impact on society, culture, and economy . In each paragraph, cite one instance of the reading. - Here is the link to the book.
AP Physics 1	<i>See required assignment below</i>
AP Physics 2	<i>See required assignment below</i>
AP Spanish	<i>See required assignment below</i>
AP Statistics	<i>See required assignment below</i>
AP Seminar	<i>See required assignment below</i>
AP Research	<i>See required assignment below</i>

2022 Summer Reading and Assignments

Summer Reading Assignment

AP English

Ms. Davis

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Reading Response Journal

This journal and its topics are a way for you to engage with the ideas in the texts as you are reading. I recommend that you do them as you read. I think all the topics are self-explanatory, but you are always welcome to email me during the summer for guidance: cdavis@ovs.org. Note: emailing for advice the night before they are due is not a very impressive way to start the year. 9 entries total. Due week one of school.

Each of these entries should be at least one page in length and, unless otherwise instructed, represent your own ideas. If you prefer to type entries for your reading journal, they should be double spaced in a regular 10 or 12 sized font and taped into a full size notebook or put into a report folder. If you are hand writing, do not double space. Your entries will be based on the substance of your ideas—not merely the length, but that is the minimum length that will be considered complete. This journal will be used throughout the year.

Topics

Context

1. Written in 1905, *House of Mirth* stylistically is considered a “novel of manners.” Look up what this means, as well as “naturalism” as a literary movement. Write about significant features of this time period, style, and literary movement. Make sure you cite your sources.
2. Written in 1922, *Babbitt* satirizes aspects of American culture. Describe the cultural climate of 1922 America. Try to see the connection between historical, political, and cultural context and how they might affect the individual. Most, if not all, of you read *The Great Gatsby* in your junior year, so you have some perspective on this era already. Cite your sources.

Big Picture

3. What shapes Babbitt’s perception of what constitutes a meaningful life? What presents a challenge to Babbitt’s views about a meaningful life? How does he respond to this challenge? Does his response remain static, or does it change over time?
4. [Warning: Before you answer these questions make sure you consider the complexity of Lily Bart and the decisions she makes. If you oversimplify Lily it will be a good indication that you have not read or not understood the text. You can email me if you are confused about what I mean.] What shapes Lily

Bart's perception of what constitutes a meaningful life? What presents a challenge to Bart's views about a meaningful life? How does she respond to this challenge? Does her response remain static, or does it change over time?

Identity

5. Analyze one conversation that Babbitt has with another character. What does it reveal about his personality and values?

6. Analyze one conversation that Bart has with another character. What does it reveal about her personality and values?

Growth

7. By the end of both works which character (Babbitt or Bart) seems to have achieved the most growth? Support your answer with events, conversations, and/or thoughts of the characters.

Biography

8. Briefly research the biography of Edith Wharton and describe how elements of her experiences, opinions, and/or politics may have seeped into the protagonist (or other characters) in *The House of Mirth*. Cite your sources.

9. Briefly research the biography of Sinclair Lewis and describe how elements of his experiences, opinions, and/or politics may have seeped into the protagonist (or other characters) in *Babbitt*. Cite your sources.

2022 Summer Reading and Assignments

Summer Reading Assignment

AP English Language and Composition and English 11

Ms. Wilson

Email: terrywilson@ovs.org

Reading is one of the best ways to improve your use of language and thus your performance in many types of classes. Select some books from this summer reading list and enjoy them. The list is compiled of American books, many of which have been awarded the Pulitzer Prize for literature, and all of which have an historical significance. There is a short summary of each book and some questions for guidance.

English 11AP students must complete the following:

1. Read *The Things They Carried*, a novel by Tim O'Brien, and write an essay on one of the questions. Be prepared to turn in the essay on the first day of class and to discuss the novel.
2. Read one additional novel of your choice from the summer reading list. You will be required to write an essay during class on your book of choice. Prepare your thoughts based on one of the questions on that book.

English 11 students will be required to read a book of their choice from the attached list and write an essay on one of the questions. Be prepared to turn in that essay on the first day of class.

Required AP novel:

The Things They Carried by Tim O'Brien is a study of an infantry company of American soldiers during the Vietnam war. These short stories are linked together to paint a portrait of men in war - the horrors of the "killing fields" and the memories of the servicemen. (1991 runner-up for Pulitzer Prize for fiction)

1. What servicemen chose to carry revealed who they were. Select 3 of the characters. Explain what each carried and what was revealed about that character.
2. Explain why Tim O'Brien returned to Vietnam twenty years after the war. What was he trying to learn about himself? How does he feel after the trip is complete?

Books of choice

Moby Dick, Herman Melville's whaling story of Captain Ahab's vindictive quest for the white whale, has been lauded as America's greatest novel. Although it begins as a narrative about a whaling expedition, it turns into "a metaphorical study of the nature of good, evil, and reality." The complex novel has many layers: the story of a whaling ship's fateful voyage, the story of a bitter man's quest for revenge, and the story of humanity's relationship to the natural world. (Literature and the Language Arts)

1. Melville chose Nantucket, where the first whale was sighted in 1672, as the starting point for the “Pequod’s” cruise. The book explores the American whalers, their individualism and heroic self-reliance.
2. The white whale with its enormous power and violence is seen as Ahab’s evil foe, but it is also seen as mild and beautiful by other members of the whaling crew. Discuss the symbolism of the white whale.

Killer Angels by Michael Shaara won the Pulitzer Prize in 1975. The novel is set during the four days of the Battle of Gettysburg, and the characters are the actual historical figures, including General Robert E. Lee. Shaara’s context is based on the letters, journal entries, and memoirs of the men who fought at Gettysburg.

1. The Battle of Gettysburg may have been a turning point between old and new methods of warfare. Explain the conflict and consequences of Lee’s traditional strategies compared to Longstreet’s insistence on more realistic defense tactics.
2. Good friends, Lew Armistead and Winfield Hancock represent two different sides. Explain how they portray the dilemma of the Civil War.

The Underground Railroad by Colson Whitehead “chronicles a young slave’s adventures as she makes a desperate bid for freedom in the antebellum South. . . . Cora encounters different worlds at each stage of her journey, her odyssey through time as well as space.” “Whitehead re-creates the unique terrors for black people in the pre-Civil War era.” (Doubleday, 2016)

1. Throughout her journey many times Cora believes she has found freedom, only to discover that it is an illusion. Write an analysis of Cora’s physical, mental and emotional characteristics that help her realize her goal.
2. Historically the Underground Railroad is the name given to safe places that aided in the movement of escaped slaves, not an actual railroad. This novel changes that metaphorical railroad into a literal one. Describe the many steps of the “underground railroad” that Cora uses to seek her freedom from slavery.

Uncle Tom’s Cabin by Harriet Beecher Stowe, a novel of social protest and propaganda, is one of the most influential books ever written by an American. She declared that her object was to “hold up in the most lifelike and graphic manner possible, slavery . . . and the Negro character.” “Stowe draws her moral by providing a grand panorama of American life,” portraying the basic human emotions of the slaves and the brutality of some slave owners. The publication and overwhelming success of this book is often viewed as one of the events leading to the Civil War. (The Novel 100)

1. Examine the morals Stowe provides through the presentation of her characters.
2. Critic Kenneth Lynn calls this novel “the greatest tear-jerker of them all.” Discuss the emotional impact of this novel on pre-civil war readers.

Angle of Repose by Wallace Stegner will be loved by outdoors enthusiasts. It is a “story of discovery – personal, historical, and geographical.” Lyman Ward starts to write his grandparents’ story of life on the

frontier and ends by revealing a portrait of four generations in the life of an American family. (The Atlantic Monthly)

1. What is the “angle of repose” and how did it represent the lives of Susan Burling and Oliver Ward?
2. Explain the background and symbolism of the episode in which Oliver pulls up all the rose bushes from the house on the mesa.

The Grapes of Wrath by John Steinbeck is the story of itinerant farmers, the “Okies”, during the Depression. The Joad family travels to California only to discover they are worse off than they were in the dust bowl of Oklahoma. Although the subject matter, including its violence and passion, is controversial, this is a remarkable book.

1. Discuss the idea that *The Grapes of Wrath* exposes “glaring inequities in our social system.”
2. Although the subject matter of this novel is often violent and shocking, the characters can also be sympathetic. Discuss the accuracy of this statement with specific references to the story.

Farewell to Arms by Ernest Hemingway is set in Italy during World War I. It is a story of lovers “silhouetted against the flame-streaked blackness of war, of a collapsing world . . . That story is the quest for meaning and certitude in a world that seems to offer nothing.” (Robert Penn Warren)

1. Hemingway’s greatest protagonists are those who must face the dilemmas of surviving with dignity, what he terms “grace under pressure.” Analyze Frederic Henry’s process of learning to live with the inevitable pain of the vulnerable.” (*The Novel 100*)
2. Gertrude Stein, one of Hemingway’s contemporary writers, made the famous remark, “You are all a lost generation.” Discuss how this novel presents the “lost generation” of the post World War I period.

The Jungle Upton Sinclair intended his novel to reveal the working conditions and rights of immigrants. When it was published, it was so shocking that it launched a government investigation of the meatpacking industry, eventually leading to new laws.

1. Discuss Sinclair’s statement . . . “there was no place in it where a man counted for anything against a dollar.”
2. Explain the symbolism, the significance of the title, *The Jungle*.

Snow Falling on Cedars by David Guterson follows a doomed love affair between a white boy and a Japanese girl set against a Japanese-American fisherman’s 1954 murder trial. The novel also explores the wartime internment of the Japanese residents. (1994 PEN/Faulkner award for fiction)

1. Explain how the setting, particularly the World War II passions against Japan, causes the major conflict in this novel.
2. Analyze the symbolic significance of the novel’s title.

A Bell For Adano by John Hersey is set in Italy during World War II. Adano's 700-year-old bell has been melted down for Fascist guns and ammunition. When the Americans occupy the town, Major Joppolo must overcome huge obstacles to find a new bell. Hersey has written a "funny, serious, and deeply disturbing story." (The New Yorker)

1. "It is possible to make your authority seem to spring from the very people over whom you have authority. And after a while, Tomasino, it actually does spring from them, and you are only the instrument of their will. That is the thing that the Americans want to teach you who have lived under men who imagined that they themselves were authority." (Ch.8) Explain how Major Joppolo through his actions in Adano exemplified this description of the American ideal leader.
2. Discuss Major Joppolo's tragic flaw, and how it led to his downfall.

The Amazing Adventures of Kavalier and Clay by Michael Chabon features two boy geniuses who collaborate to create a comic book. Set in the period before America enters World War II, the novel brilliantly reveals this period of history. "Super-colossal – smart, funny and a continual pleasure to read." (The Washington Post)

1. Discuss how the actions of Nazi Germany determined the various stages of Joe Kavalier's life.
2. Analyze Sammy Clay in terms of his relationships with Joe and Rosa as well as his comic book career.

The Invisible Man by Ralph Ellison won the National Book Award for fiction. The narrator from his basement coal-cellar says in the prologue, "I am an invisible man. . . . I am invisible, understand, simply because people refuse to see me." The novel, through flashbacks, takes the reader through the experiences that have led to the coal-cellar. As he becomes the representative of America, white and black, the narrator asks at the end, "Who knows but that on the lower frequencies, I speak for you?"

1. Explain how the author uses the idea of invisibility in relation to his character's search for identity. Include the imagery of blindness and being blindfolded.
2. Discuss whether the characters represent real persons or whether they are used as stereotypes to further the author's ideas about the problems of the African Americans

All the President's Men. Bob Woodward and Carl Bernstein, reporters for the *Washington Post*, uncovered a scandal that helped bring about a constitutional crisis and eventually forced the President to resign. This book is their account of that investigation.

1. Explain the context of what happens during this period in light of the book's allusion to the nursery rhyme about Humpty Dumpty. ("All the King's horses and all the King's men couldn't put Humpty Dumpty together again.")
2. Specifically who was "Deep Throat" and what did Woodward learn from his secret meetings with this source?

Silent Spring by Rachel Carson, a marine biologist, documented the effects on the environment of the indiscriminate use of pesticides, especially DDT. The book sounded a warning for the environment and led to a new reform movement.

1. “There was a strange stillness . . . It was a spring without voices. On the mornings that had once throbbed with the dawn chorus of robins, catbirds, doves, jays, wrens, and scores of other bird voices there was now no sound; only silence.” Describe the imagery Carson uses to dramatize her subject.
2. What are some of the legacies that have resulted from the publication of this book?

2022 Summer Reading and Assignments

Summer Reading Assignment

AP United States History

Mr. Luneau

Email: tluneau@ovs.org

Expectations: APUSH is a fast-paced college-level course. It is expected and required that you will complete this summer assignment and come to school in **August** prepared to hand in this completed assignment. *The first unit exam will be during the first week of classes.

Directions: You will complete the video/viewing study guides found on APUSHREVIEW.COM, which you will print and turn in on the first day of class.

Part 1: Transformation of North America, 1450-1700

Chapter 1 – Colliding Worlds (1450-1600)

- a. VISIT WEBSITE – APUSHREVIEW.COM
(<http://www.apushreview.com/textbook-chapter-review-videos-2/chapter-review-videos/>)
- b. WATCH- the video PowerPoint review of Chapter 1.
- c. COMPLETE – the accompanying Chapter 1 video viewing guide.

Chapter 2 – American Experiments (1521-1700)

- a. VISIT WEBSITE – APUSHREVIEW.COM
(<http://www.apushreview.com/textbook-chapter-review-videos-2/chapter-review-videos/>)
- b. WATCH- the video PowerPoint review of Chapter 2.
- c. COMPLETE – the accompanying Chapter 2 video viewing guide.

Part 2: British North America and the Atlantic World, 1660-1763

Chapter 3 – The British Atlantic World, 1660-1750

- a. VISIT WEBSITE – APUSHREVIEW.COM
(<http://www.apushreview.com/textbook-chapter-review-videos-2/chapter-review-videos/>)
- b. WATCH- the video PowerPoint review of Chapter 3.
- c. COMPLETE – the accompanying Chapter 3 video viewing guide.

Chapter 4 – Growth, Diversity, and Conflict, 1720-1763

- a. VISIT WEBSITE – APUSHREVIEW.COM
(<http://www.apushreview.com/textbook-chapter-review-videos-2/chapter-review-videos/>)
- b. WATCH- the video PowerPoint review of Chapter 4.
- c. COMPLETE – the accompanying Chapter 4 video viewing guide.

2022 Summer Reading and Assignments

Summer Reading Assignment

Mrs. Corson

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AP Calculus AB

Expectations: AP Calculus AB is designed to be the equivalent of a first semester college calculus course devoted to topics in differential and integral calculus. The course moves at a quick pace and requires you to arrive at school with a solid foundation in the **skills taught in Geometry, Algebra 2 and Pre-calculus**. In addition, you must be proficient with the **graphing calculator**, which is required for one half of the AP Exam. The following assignment will be collected on the first day of class.

Directions: You will acquire a graphing calculator (TI or HP), and complete Unit 0 Calc-Prerequisites on Calculus. Flippedmath.com. Unit Zero involves watching the videos, printing out and completing the assignments, and correcting them with a red pen, to turn in to me when you arrive at school in August.

Minimum Required Calculator: TI-83 Plus or TI-84 Plus graphing calculator, or HP Prime Graphing Calculator.

Here is the list of calculator capabilities expected by the College Board:

<https://apstudents.collegeboard.org/exam-policies-guidelines/calculator-policies>

Required Math Skills:

Lesson 0.1 Things to Know for Calculus

Go to <http://calculus.flippedmath.com/01-things-to-know-for-calc.html>

Print and review the “Things To Know For Calculus” handout

Watch the Unit Circle Trig video and read the accompanying information

Lesson 0.2 Summer Packet

Go to <http://calculus.flippedmath.com/02-summer-packet.html>

Print and complete the Calculus Summer packet

Check your work and make corrections in red pen with the Solution Guide

(continued on the next page...)

Lesson 0.3 Calculator Skills

Go to <http://calculus.flippedmath.com/03-calculator-skillz.html>

Watch the Calculator Skillz video and practice using your calculator

Print and complete the Calculator Skillz packet

Check your work and make corrections in red pen with the Solution Guide

You will hand in the Calculus Summer packet and Calculator Skillz packet, and show me your graphing calculator, on the first day of class in August.

Again, please remember that everything in this assignment is considered prerequisite knowledge. You will be using these skills every day in Calculus. You need to know how to do all of this quickly and precisely.

2022 Summer Reading and Assignments

AP Spanish
Ms. Wachter

Email: gwachter@ovs.org

Go on the following website, <https://www.profedelee.es/> under "actividades", you need to do the following:

Listen to at least 3 podcasts and write a summary of what you heard.

Read at least 3 of the lecturas and write a summary of what you read.

FlipGrid!!! <https://flipgrid.com/412327e0> Use your first name with the first letter capitalized to access FlipGrid after clicking the link . Use the link to record a FlipGrid telling us the following things:

1. Your name and what you want your name to be in AP Spanish this year.
2. Tell us two exciting things that you did this summer or that happened to you this summer.

(Of course it needs to be in Spanish please).

3. You must watch and comment on everyone else's videos!

Explore this website and any other Spanish speaking materials!!! Netflix has some great series in Spanish. The website I shared with you has some great examples of good series in Spanish to watch.

*You can earn extra credit right off the bat if you watch a series or even part of a series, and write a brief summary opinion in your own words.

Email me if you have any questions!

2022 Summer Reading and Assignments

AP Physics 1

Mr. Sittig

Email: msittig@ovs.org

Welcome to AP Physics! Whether you are a new student of physics or a returning physicist, I am happy to see you. Please pay careful attention to the summer assignments below; the class moves at a fast pace and we need to get as much of a head start as we can.

AP Physics 1

This summer you will self-study Lesson 1 “Describing Motion with Words” of the [1-D Kinematics tutorial](#) on Physicsclassroom.com. There will be a test on the first day of school covering the concepts and vocabulary from Lesson 1, including but not limited to:

Concepts <ul style="list-style-type: none">➤ What is the difference between a scalar quantity and a vector quantity?➤ When is distance equal to displacement? When is it different?➤ How are speed and velocity related to each other?➤ How do you calculate velocity?➤ How is acceleration related to velocity?	Vocabulary: <ul style="list-style-type: none">KinematicsScalarsVectorsDistanceDisplacementVelocitySpeedAcceleration
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Therefore you should read each section carefully, take careful notes, answer and understand the Quick Quiz and Check Your Understanding questions, and master the linked simulations. If you enjoy the material, feel free to read ahead, as the course will cover the topics on Physicsclassroom.com through Circular Motion and Satellite Motion. Have a great summer!

2022 Summer Reading and Assignments

AP Physics 2

Mr. Sittig

Email: msittig@ovs.org

Welcome to AP Physics 2! This is a wonderful class that surveys several of the fascinating sub-fields of physics, which all relate back to the natural world and its properties/behaviors. The assignment described below will be checked at the beginning of the second class, and a quiz will follow immediately after covering all aspects of the summer assignment. If you have any questions about the assignment you should email me during the summer <msittig@ovs.org> or ask on the first day of class.

Greek Alphabet

You will need to be familiar with all of the letters of the Greek Alphabet, both upper and lower case, shown below, take some time this summer to memorize them.

A α	alpha	N ν	nu
B β	beta	Ξ ξ	ksi
Γ γ	gamma	Ο ο	omicron
Δ δ	delta	Π π	pi
E ε	epsilon	Ρ ρ	rho
Z ζ	zeta	Σ σς	sigma
H η	eta	T τ	tau
Θ θ	theta	Υ υ	upsilon
I ι	iota	Φ φ	phi
K κ	kappa	X χ	chi
Λ λ	lambda	Ψ ψ	psi
M μ	mu	Ω ω	omega

Metric Prefixes

You will also need to know the following metric prefixes and what exponents they correspond to:

Prefix	Symbol		Multiplier
exa	E	10^{18}	1,000,000,000,000,000,000
peta	P	10^{15}	1,000,000,000,000,000
tera	T	10^{12}	1,000,000,000,000
giga	G	10^9	1,000,000,000
mega	M	10^6	1,000,000
kilo	k	10^3	1,000
hecto	h	10^2	100
deka	da	10^1	10
deci	d	10^{-1}	0.1
centi	c	10^{-2}	0.01
milli	m	10^{-3}	0.001
micro	μ	10^{-6}	0.000,001
nano	n	10^{-9}	0.000,000,001
pico	p	10^{-12}	0.000,000,000,001
micro micro	μμ	10^{-12}	0.000,000,000,001
femto	f	10^{-15}	0.000,000,000,000,001
atto	a	10^{-18}	0.000,000,000,000,000,001

Textbook Reading

Go to the website for our textbook[1] and carefully read the first chapter: "Introduction: The Nature of Science and Physics". On paper, answer Conceptual Questions #1-11 and do Problems & Exercises 2-8 even, 12-18 even, 24, 28-30 even. Show complete work for full credit.

[1] <https://openstax.org/details/books/college-physics-ap-courses>

Supply Preparation

Prepare the following materials for use in AP Physics 2 and bring them to the second class:

- Three-ring binder exclusively for AP Physics 2 (D-ring preferred)
- Loose leaf note paper, college-ruled
- Scientific or graphing calculator

2022 Summer Reading and Assignments

AP World History

Mr. Luneau

Email: tluneau@ovs.org

Welcome WHAP students to what I hope is an entertaining, challenging and rewarding year of exploring the history of the world. With that in mind, I need you to do a few things before the start of the 2021-22 school year.

- If you don't have it already, purchase your textbook: *Ways of the World – A Global History With Sources/Fourth Edition for AP*. I'd like you to have that book in hand by July 15

- By July 15, each of you will be mailed a review packet to be completed by the start of class in late August. Read the material and complete the packet. It will be due to me on the first day of class.

- By the start of the school year, go to Youtube and watch:

Crash Course World History #1: https://www.youtube.com/watch?v=Yocja_N5s1I

Crash Course World History #2: <https://www.youtube.com/watch?v=n7ndRwqJYDM>

Crash Course World History #3:

https://www.youtube.com/watch?v=sohXPx_XZ6Y&list=RDCMUCX6b17PVsYBQ0ip5gyeme-Q&index=3

Crash Course World History #4:

<https://www.youtube.com/watch?v=Z3Wvw6BivVI&list=RDCMUCX6b17PVsYBQ0ip5gyeme-Q&index=4>

Take notes on the most important elements and developments of the three time periods in the Crash Course videos: an open notes assignment will await you in that first week of class.

It is important that you do the work above and arrive that first week prepared to get to work.

Keeping pace with assignments will be one of the keys to your success, and so the time to start is now.

Thank you for joining me on this journey and we'll see you in August!

2022 Summer Reading and Assignments

AP Environmental Science

Mr. Risser

Email: srisser@ovs.org

Required summer assignment: Please email a document with your answers to srisser@ovs.org before the first class meeting.

Few environmental topics are as prominent, controversial, and political as the topic of global warming, and for good reason. The potential ramifications of a warming atmosphere are frightening and sobering. Your summer reading assignment will be an introduction to this important topic.

First, Answer question 1 below:

1. What has been your general attitude towards global warming? How much do you feel you know about the topic? (sample ideas: I don't know anything about it; I don't think it's real; it seems like a problem I don't need to worry much about; I am mildly concerned; I'm seriously worried)

Then, Read: Climate Change 101, an excerpt from the book *Beyond Debate* by Dr. Shahir Masri. This has been sent to your OVS email account.

Also Read: <https://slate.com/culture/2010/01/james-hansen-s-storms-of-my-grandchildren.html>

Lastly, answer the questions below:

(from *Climate Change 101*)

2. Describe the difference between the heat energy that reaches the Earth from the sun and the heat energy that gets absorbed by greenhouse gases.
3. If other gases trap heat more effectively, why is CO₂ such a concern?
4. What are the main sources of *anthropogenic* CO₂? What are the main sources of *anthropogenic* methane?
5. The atmospheric CO₂ concentration has gone from .03% to .04% in the last couple hundred years. This is a tiny percentage and a tiny change? Why should this be a concern?
6. Briefly describe two of the positive feedback cycles that could be initiating the "Tipping Point".

(from *Storms of my Grandchildren* review)

7. Do you think James Hansen seems like a credible authority on the topic of global warming? Why or why not?
8. What are some reasons why Hansen was allegedly fed up with the U.S. government?
9. Briefly quote three items of information from this article that you find alarming.
10. Can you find examples of language usage in this article that a global warming skeptic might consider “alarmist”.
11. Do you have any new feelings or opinions about global warming after this assignment?

2022 Summer Reading and Assignments

AP Psychology

Hello and welcome, welcome, welcome to AP Psychology!

In this class, we will study human behavior and mental processes through a biological, psychological and socio-cultural lens. We will cultivate a scientific perspective of curiosity, humility and critical thinking. We will learn where we have come from, and where we want to go. We will use all of our senses.

Remember that everything psychological is also biological, and what we know of biology and physics is still being discovered! This field is ancient and young at the same time. Kind of like us, no?

We will ask many questions and apply what we discover in many ways. We will look for patterns and build neural networks in our brains. We will improve our memories and learn about learning. We will gain knowledge from many resources, including books, scholarly articles, ourselves, each other and our environments. We will learn practical skills, like active listening, mind-body exercises, mindfulness, emotional processing tools, and creating safe space.

We will contribute what we learn to our communities, and be generous with ourselves. For it is in giving that we receive. Let it be so.

Welcome to the class.

For your summer reading: *Forty Studies that Changed Psychology: Explorations into the History of Psychological Research* by Roger R. Hock, 7th edition

Assignment:

Read the book. Do NOT skip the preface! ***Read the preface***, as it provides vital information to understanding what you are about to undertake in the reading.

Psychology is defined as “the study of human behavior and mental processes.” (Myers, 2014)

For **5 chapters** (you choose) from the book, please

- Define the terms in the chapter title (i.e. biology and human behavior; perception and consciousness; etc.)
- Answer the question: How is this/are these concepts relevant to the study of psychology?
- Choose one study from each chapter (ten studies total) and, in two well-developed paragraphs (minimum), please

- Provide a detailed summary of the study, including the theoretical base, method, results of the study
- Explain why the study was significant and identify any criticisms of it
- Share why you chose this study, or what you found interesting about it

*Include the APA style listing of the study as the heading before each mini essay (we will learn all about what the numbers mean, etc in class).

Ex.

Gazzaniga, M. S. (1967). The split brain in man. *Scientific American*, 217(2), 24-29.

In this study, Gazzaniga wanted to explore the idea that....

Please email your final document to lcolborn@ovs.org before the first class meeting.

2022 Summer Reading and Assignments

AP Statistics

Mr. Farmer

Email: afarmer@ovs.org

1. Order the textbook

Textbook: UPDATED The Practice of Statistics - 6th Edition

To purchase the textbook visit the online store [here](#). A physical textbook is MANDATORY, digital is optional. If both a hardcopy and a digital version are desired make sure to include a year long subscription to Sapling Plus.

2. Assignment

Summer reading is to read and take notes on chapter 4 of the textbook. There will be a vocabulary quiz on the chapter shortly after school starts.

2022 Summer Reading and Assignments

AP Seminar

Welcome, AP Seminar students!

Enrolling in the AP Capstone program is the best decision of your high school career. This sequence of courses, more than any other, will have you engage in the kind of inquiry, critical analysis, writing, and research that are going to serve you extremely well in college. You will take on the habits of seeing connections between issues, of interpreting evidence through a variety of lenses, and of understanding trends from multiple perspectives.

QUEST Framework & Lenses

The AP Seminar course is built around the QUEST framework to investigate research questions of your own design. The QUEST framework is *recursive*, meaning that as we move forward, we also go back and refine previous steps of our work as we uncover new information.

Q - Question and Explore

Challenge and expand the boundaries of your current knowledge

U - Understand and Analyze

Contextualize arguments and comprehend authors' claims

E - Evaluate Multiple Perspectives

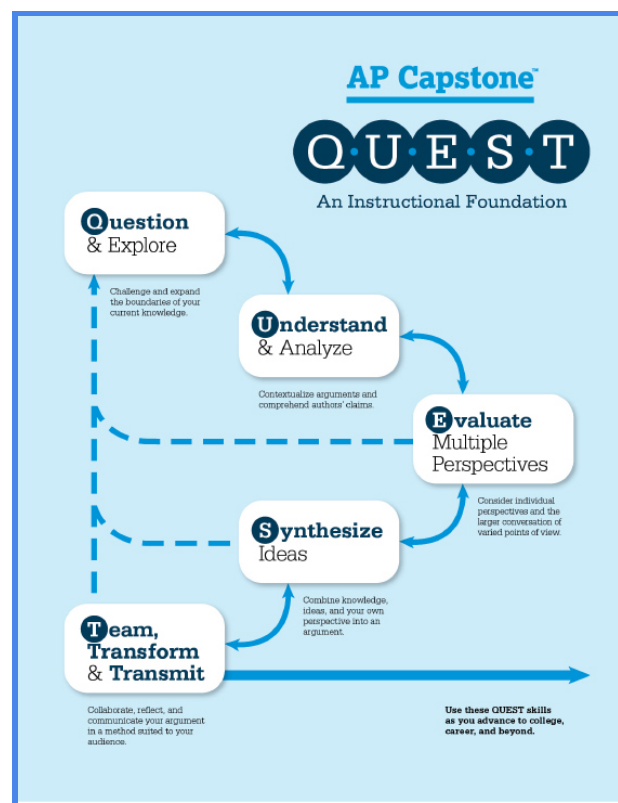
Consider individual perspectives and the larger conversation of varied points of view

S - Synthesize Ideas

Combine knowledge, ideas, and your own perspective into an argument

T - Team, Transform, and Transmit

Collaborate, reflect, and communicate your argument in a method suited to your audience



In addition to the QUEST framework, we use **eight investigative lenses** to explore our research questions. You will use these lenses to identify and compare different perspectives. The lenses are:

Environmental	Scientific	Economic	Political and Historical
Artistic and Philosophical	Cultural and Social	Ethical	Futuristic

Assignment: Two-Lens Inquiry

DUE: August 29, 2022 (first day of school)

This assignment will give you practice with examining issues through different lenses in AP Seminar, as well as forming critical approaches to finding, evaluating, and using credible sources of information.

Your assignment is to examine an issue related to **Sustainability**. This issue can be anything that interests you, but it must be something *current* - something that is happening and relevant to today's society. Once you have determined your issue, you will write a **600-word** examination of it using **two lenses** listed on the chart above (max. 300 words per lens). This examination is a **report**; you are not making or defending an argument.

For example, you may examine the issue of **deforestation**. You may investigate this through a **political lens** by examining what authority the US government has over issues related to forestry, or international law. You may also examine the issue through a **scientific lens**, in terms of how tree loss is impacting air quality or species and habitat loss.

In order to write an informed examination, you will find **eight sources (four for each lens)** from among the following sources:

Column A	Column B	Column C	Column D
<ul style="list-style-type: none"><input type="checkbox"/> BBC<input type="checkbox"/> New York Times<input type="checkbox"/> Reuters<input type="checkbox"/> Bloomberg<input type="checkbox"/> Associated Press<input type="checkbox"/> Al Jazeera<input type="checkbox"/> NPR<input type="checkbox"/> Washington Post<input type="checkbox"/> Financial Times<input type="checkbox"/> Wall Street Journal	<ul style="list-style-type: none"><input type="checkbox"/> The Economist<input type="checkbox"/> Foreign Policy<input type="checkbox"/> Foreign Affairs<input type="checkbox"/> The New Yorker<input type="checkbox"/> Atlantic Monthly<input type="checkbox"/> National Review<input type="checkbox"/> The New Republic	<ul style="list-style-type: none"><input type="checkbox"/> CATO Institute<input type="checkbox"/> Center for Strategic and International Studies<input type="checkbox"/> Council on Foreign Relations<input type="checkbox"/> Chicago Council on Global Affairs<input type="checkbox"/> Brookings Institution<input type="checkbox"/> Hoover Institution<input type="checkbox"/> American Enterprise Institute<input type="checkbox"/> Peterson Institute for International Economics<input type="checkbox"/> The Heritage Foundation<input type="checkbox"/> RAND Corporation	<p>A <u>peer-reviewed academic journal</u> of your choice. Examples would include such publications as:</p> <ul style="list-style-type: none"><input type="checkbox"/> Nature<input type="checkbox"/> Journal of the American Medical Association<input type="checkbox"/> Journal of Public Policy<input type="checkbox"/> Journal of Economic Literature<input type="checkbox"/> International Journal of Art and Art History<input type="checkbox"/> The Journal of Technology Studies

Submission

You will submit your work by **August 29, 2022.**

- Submit your work as a single report
- Include your name and topic/title
- Submit your report via google docs and share with dreynolds@ovs.org
- Include a bibliography or works cited page
- Use MLA citation for you in text citations
- Include page numbers

If you have any questions about the AP Seminar summer assignment, email Ms. Reynolds at dreynolds@ovs.org

Evaluation

	High (100%)	Medium (90%)	Low (80%)	Incomplete
Report	<p>The report examines the complexities of a problem or issue using research that draws upon a variety of relevant, credible sources.</p> <p>The report discusses a range of sources and draws explicit and relevant connections among them.</p> <p>The report attributes and accurately cites the sources used.</p> <p>The report communicates clearly to the reader (although may not be free of errors in grammar and style). The written style is consistently appropriate for an academic audience.</p>	<p>The report identifies an adequately focused area of investigation in the research and shows some variety in source selection.</p> <p>The report summarizes information somewhat effectively from a narrow range of perspectives.</p> <p>The report attributes or cites sources used but not always accurately.</p> <p>The report is generally clear but contains some flaws in grammar that occasionally interfere with communication to the reader. The written style is inconsistent and not always appropriate for an academic audience.</p>	<p>The report identifies an overly broad or simplistic area of investigation and/or shows little evidence of research.</p> <p>The report identifies evidence from chosen sources. Information is misstated, oversimplified, or illogically tied to the inquiry.</p> <p>The report includes many errors in attribution and citation</p> <p>The report contains many flaws in grammar that often interfere with communication to the reader. The written style is not appropriate for an academic audience.</p>	<p>The report is below the minimum level of acceptability in completion and/or quality.</p>

2022 Summer Reading and Assignments

AP Research

Welcome, AP Research students!

Enrolling in the AP Capstone program is the best decision of your high school career. This sequence of courses, more than any other, will have you engage in the kind of inquiry, critical analysis, writing, and research that are going to serve you extremely well in college. You will take on the habits of seeing connections between issues, of interpreting evidence through a variety of lenses, and of understanding trends from multiple perspectives.

QUEST Framework & Lenses

The AP Research continues with the study of the QUEST framework to investigate research questions of your own design. The QUEST framework is *recursive*, meaning that as we move forward, we also go back and refine previous steps of our work as we uncover new information.

Q - Question and Explore

Challenge and expand the boundaries of your current knowledge

U - Understand and Analyze

Contextualize arguments and comprehend authors' claims

E - Evaluate Multiple Perspectives

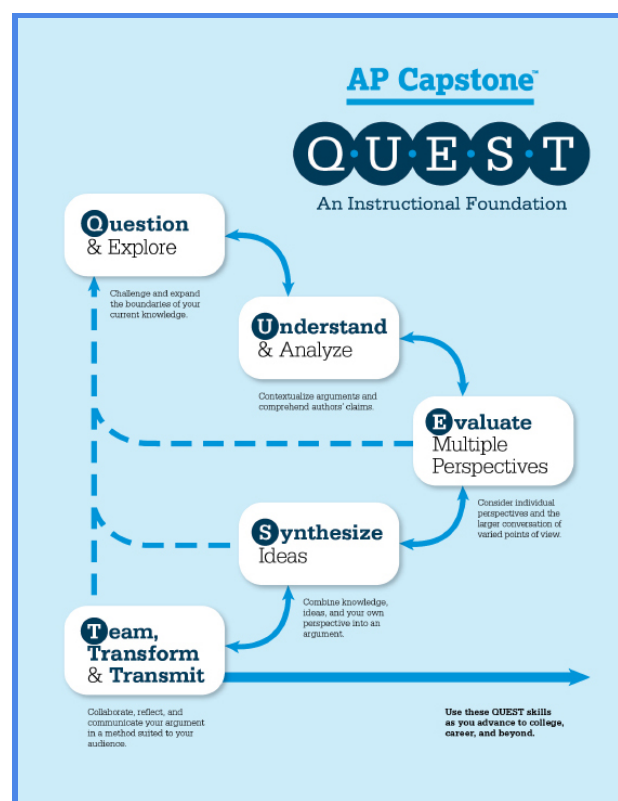
Consider individual perspectives and the larger conversation of varied points of view

S - Synthesize Ideas

Combine knowledge, ideas, and your own perspective into an argument

T - Team, Transform, and Transmit

Collaborate, reflect, and communicate your argument in a method suited to your audience



AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information.

Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

In the classroom and independently (while possibly consulting any expert advisers), students learn and employ research and inquiry methods to develop, manage, and conduct an in-depth investigation of an area of personal interest, culminating in an academic paper of 4,000–5,000 words that includes the following elements:

- › Introduction and Literature Review
- › Method, Process, or Approach
- › Results, Product, or Findings
- › Discussion, Analysis, and/or Evaluation
- › Conclusion and Future Directions
- › Bibliography

Using a ***process and reflection portfolio (PREP)***, students document their inquiry processes, communication with their teachers and any expert advisers as needed, and reflections on their thought processes. Students have regular work-in-progress interviews with their teachers to review their progress and to receive feedback on their scholarly work.

Students develop and deliver a presentation (using an appropriate medium) and an oral defense to a panel on their research processes, method, and findings.

Summer Assignment: Developing a Research Topic and Purpose

DUE: August 29, 2022 (first day of school)

From the College Board: Here are some topics that students have chosen to investigate in AP Research:

- 3-D printed prosthetics for amputees
- Algorithm of K-pop music
- Effects of sleep deprivation on academic achievement in teens
- Learning chemistry through musical chords
- Environmental injustice in subsidized housing
- Effect of popular opinion on the implementation of Supreme Court decisions

Stage One: Read this Intro to AP Research from “fiveable”

<https://library.fiveable.me/ap-research/academic-paper/intro-ap-research-topic-of-inquiry/study-guide/LvKWH8F4yv0AJpD7MxXG>

Stage Two: Topic Selection

- A. **Identify a Discipline:** This doesn't have to be a permanent choice. We are just starting a thought Process. What is a discipline?

A discipline is the broad area of study that a paper is focused within. For example, **disciplines** include economics, film, art, chemistry, physics, music, and even broader, hard sciences, social sciences, humanities, etc. What is a topic of inquiry? A topic of inquiry is narrow. It's specific. The first step in finding a topic of inquiry is identifying a **discipline**. This can be a subject you want to major in, a passion of yours, or just something you want to learn more about. ("library.fiveable.me")

- B. List as many related topics to that discipline as possible.
- C. Highlight the 5 topics you are MOST interested in at this time. Rank your top 5 topics.
- D. Create a list of potential questions for each of the 5 topics you ranked above. You will have 25 potential questions created by the time you arrive at school in August.
- E. Conduct research of relevant scholarly work related to your 5 topics. Start a list of these sources in a google doc, and list **WHY** you have chosen this resource. Maybe three sources for each of the 5 topics (so 15 total).

In order to write an informed examination, you will want to explore **many sources**, including some from the list below:

Column A	Column B	Column C	Column D
<ul style="list-style-type: none"><input type="checkbox"/> BBC<input type="checkbox"/> New York Times<input type="checkbox"/> Reuters<input type="checkbox"/> Bloomberg<input type="checkbox"/> Associated Press<input type="checkbox"/> Al Jazeera<input type="checkbox"/> NPR<input type="checkbox"/> Washington Post<input type="checkbox"/> Financial Times<input type="checkbox"/> Wall Street Journal	<ul style="list-style-type: none"><input type="checkbox"/> The Economist<input type="checkbox"/> Foreign Policy<input type="checkbox"/> Foreign Affairs<input type="checkbox"/> The New Yorker<input type="checkbox"/> Atlantic Monthly<input type="checkbox"/> National Review<input type="checkbox"/> The New Republic	<ul style="list-style-type: none"><input type="checkbox"/> CATO Institute<input type="checkbox"/> Center for Strategic and International Studies<input type="checkbox"/> Council on Foreign Relations<input type="checkbox"/> Chicago Council on Global Affairs<input type="checkbox"/> Brookings Institution<input type="checkbox"/> Hoover Institution<input type="checkbox"/> American Enterprise Institute<input type="checkbox"/> Peterson Institute for International Economics<input type="checkbox"/> The Heritage Foundation<input type="checkbox"/> RAND Corporation	<p>A <u>peer-reviewed academic journal</u> of your choice. Examples would include such publications as:</p> <ul style="list-style-type: none"><input type="checkbox"/> Nature<input type="checkbox"/> Journal of the American Medical Association<input type="checkbox"/> Journal of Public Policy<input type="checkbox"/> Journal of Economic Literature<input type="checkbox"/> International Journal of Art and Art History<input type="checkbox"/> The Journal of Technology Studies

Stage Three: Watch AP Research Video

Watch this video to provide you with more background information:

<https://youtu.be/EzH-WmHPoCM>

Create a list of questions you have after watching this video.

Stage Four: Submission

You will submit your work by **August 29, 2022.**

- Submit your work as a single report
- Include your name and discipline/topic
- Submit your report via google docs and share with lcolborn@ovs.org

If you have any questions about the AP Research summer assignment, email Mrs. Colborn

lcolborn@ovs.org