

AP Computer Science Principles

Summer Assignment – Due First Day of Class!

Research a computing innovation using reputable online sources. The definition of a computing innovation, per college board:

“A computing innovation is an innovation that includes a computer or program code as an integral part of its functionality.”

Some examples of computing innovations:

Drones	Self Driving Cars	Artificial Intelligence	Google Stadia	Bitcoin
Cloud Computing	Apple Watch	Face recognition	Social Media	iPhone

You may also pick your own innovation. Once you have completed your research, write a short essay about your innovation.

Word limit: 500 words

Rubric:

Your essay will be graded based on how it addresses the following criteria:

Provide information on your computing innovation.

- Name the computing innovation
- Describe the innovation
- Describe the function or purpose of the innovation

Describe the impact, or potential impact of your innovation, including:

- At least one *beneficial* impact that the innovation will have, has had, or has the potential to have on society
- At least one *harmful* impact that the innovation will have, has had, or has the potential to have on society

Outline some of the challenges with introducing this innovation, including:

- At least one storage or privacy concern directly related to the innovation
- Steps that have been or could be taken to address this concern

Describe your process for researching this innovation, including:

- The sources you used to gather information.
- At least one fact about the innovation that you learned as a result of your research.

Assignments should be typed, printed, and handed in on the first day of class.