M319: AP Computer Science Principles Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explore Performance Task

Practice (2A) Template Date: \_\_\_\_\_\_ Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explore PT — Impact of Computing Innovations  
Written Response Template

## 2. Written Responses

Submit one PDF document in which you respond directly to each prompt. Complete your responses to 2a and 2e. Your responses must provide evidence of the extensive knowledge you have developed about your chosen computing innovation and its impact(s). Write your responses so they would be understandable to someone who is not familiar with the computing innovation. Include citations, as applicable, within your written responses. Your responses will eventually be combined with further research and writing to create a 700 word research paper.

### Computing Innovation

2a.Provide information on your computing innovation.

* Name the computing innovation that you have selected.
* Describe what qualifies your selection as a computing innovation.
* Describe the computing innovation’s intended purpose.
* Describe the computing innovation’s intended function.

*(No more than 100 words)*

The electric wheelchair is a computing innovation that helps people with mobile disabilities move around easily through using a joystick on an electric wheelchair to move the wheels. The computational artifact, which was made with Canva.com, shows these through the pictures and backgrounds of the infographic. For the background pictures, they are captioned with text explaining the theme of the background, which are either how the wheelchair functions, or how it helps people. At the bottom are pictures showing equality for people who use wheelchairs, and a schematic of an electric wheelchair.

### References

2e.Provide a list of at least one online or print source used to support your response to the prompt in this performance task.

* Try to find sources that have been created after the end of the previous academic year (May 2017).
* For each online source, include the permanent URL. Identify the author, title, source, the date you retrieved the source, and, if possible, the date the reference was written or posted using MLA8 guidelines. You may use [www.easybib.com](http://www.easybib.com)
* For each print source, include the author, title of excerpt/article and magazine or book, page number(s), publisher, and date of publication.
* Include citations for the sources you used, and number each source accordingly.
* Each source must be relevant, credible, and easily accessed.

*(Note: No word count limit for this answer)*

Insert response for 2e in the text box below.

[1] Rossen, Camilla Blach, et al. “Everyday Life for Users of Electric Wheelchairs – a Qualitative Interview Study.” *Everyday Life for Users of Electric Wheelchairs - A Qualitative Interview Study*, VIA University College, 17 Mar. 2012, <https://www.researchgate.net/profile/Camilla_Rossen/publication/> 221712715 \_Everyday\_life\_for\_users\_of\_electric\_wheelchairs\_-\_A\_qualitative\_ interview \_study/links /58bd6498a6fdcc2d14ea2167/Everyday-life-for-users-of-electric-wheelchairs-A-qualitative-interview-study.pdf

[2] Gannon, Mary. “How Do I Choose a Joystick Controller for My Mobile Machine?” *Mobile Hydraulic Tips*, Mobilehydraulictips.com, 28 June 2019, www.mobilehydraulictips.com/how-do-i-choose-a-joystick-controller-for-my-mobile-machine/.

[3] Stenberg, G., Henje, C., Levi, R., Lindström, M. (2016) Living with an electric wheelchair: the user perspective. Disability and Rehabilitation: Assistive Technology, 11(5): 385-394, 14 Oct. 2019 http://dx.doi.org/10.3109/17483107.2014.968811

[4] “C.T.M. HS-2850 Compact Mid-Wheel Drive Power Chair.” *Discover My Mobility*, Discover My Mobility, lh6.googleusercontent.com/proxy/g7ukMcPBAqP4cHl3hQHZn-abkpBsW2CFHeTHhzABlrK7nie3QhfVV\_e4flopnB7lvIQzZZSJ3BMPEUOH7ZPWAWlukpU\_xNnztmvMQHETvgb82LY3xeVmJqgfWc0LN3T-tpii3Q.

[5] “Arts for All Abilities — Z Puppets Rosenschnoz.” *Arts for All Abilities*, Z Puppets Rosenschnoz, zpuppets.org/arts-for-all-abilities.

[6] Rossen, Camilla Blach, et al. “Everyday Life for Users of Electric Wheelchairs – a Qualitative Interview Study.” *Everyday Life for Users of Electric Wheelchairs - A Qualitative Interview Study*, VIA University College, 17 Mar. 2012, www.tandfonline.com/doi/abs/10.3109/17483107.2012.665976.

[7] “Power Folding Wheelchair Joystick.” *Quick N Mobile*, Quick N Mobile, quicknmobile.com/product/power-folding-wheelchair-joystick/.

[8] “Handicapped Person Socialization Stock Illustration.” *IStock*, IconicBestiary, 16 Dec. 2016, [www.istockphoto.com/vector/handicapped-person-socialization-gm629185698-111875971](http://www.istockphoto.com/vector/handicapped-person-socialization-gm629185698-111875971).

[9] Bellis, Mary. “A Man Playing Tennis Using a Wheelchair.” *History of the Wheelchair*, ThoughtCo., 1 July 2019, [www.thoughtco.com/history-of-the-wheelchair-1992670](http://www.thoughtco.com/history-of-the-wheelchair-1992670).

[10] Quigley, John. “Cities For All.” *Disabled Activists Are Building an Inclusive and Accessible Urban Future for Us All*, Medium.com, 11 Apr. 2018, [medium.com/@victorpineda/diaud-network-during-world-urban-forum-9-kuala-lumpur-178e78da4ee2](mailto:medium.com/@victorpineda/diaud-network-during-world-urban-forum-9-kuala-lumpur-178e78da4ee2).

[11] Muhasebenews. “Disabled Women on Right Smileing at Camera Whilst Entering Car for Mobilely Disabled People from the Back.” *Does the SCT Arise in the Purchase of Vehicles for the Disabled (First Acquisition)?*, Muhasebe7News, 27 Mar. 2017, [www.muhasebenews.com/engellilerin-arac-aliminda-ilk-iktisabinda-otv-dogar-mi/](http://www.muhasebenews.com/engellilerin-arac-aliminda-ilk-iktisabinda-otv-dogar-mi/).

[12] INV, Author. “Considering a power wheelchair? – What you need to know” *INVACARE*, <https://www.passionatepeople.invacare.eu.com/power-wheelchair/>