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**Computational Thinking, Robotics, and the Maker Movement**

***By: Alex Alexandre, Sally Wilson, and Deniz Ismailoff***

**Required Video:**

[Assignment 1: Emerging Technologies Group Project](https://docs.google.com/presentation/d/1Ut3mpynwNXmbuZyKe8M88oC79lJ2cE0xZ48DWflntSk/edit?ts=5f73d4b2#slide=id.p)- Slides without group discussion

[Assignment 1: Emerging Technologies Group Project](https://drive.google.com/file/d/1c4qIk3VXIHs8N_ZSjVAQbMzUUFNkQWBe/view?usp=sharing)- Slides with group discussion (download-its safe)

**Optional Readings with Links:**

1. [Youth Makerspace Playbook](https://makered.org/wp-content/uploads/2015/09/Youth-Makerspace-Playbook_FINAL.pdf)- MakerEd. (2015).
2. [10 Classroom-Ready Computational Thinking Resources for K-12](https://www.gettingsmart.com/2018/05/10-classroom-ready-computational-thinking-resources-for-k-12/)-D. Jones. (2018)
3. [Five Reasons to Teach Robotics in Schools](https://www.thetechedvocate.org/five-reasons-to-teach-robotics-in-schools/)-M. Lynch. (2017)
4. [Computational Thinking and Literacy](https://inspire.redlands.edu/cgi/viewcontent.cgi?article=1003&context=jcsi). Sharin Rawhiya Jacob. (2018)
5. [Computational Thinking Across the Curriculum](https://www.edutopia.org/blog/computational-thinking-across-the-curriculum-eli-sheldon). Sheldon, E. (2017, March 30)
6. [Elevating Engagement: Bringing Literacy Alive With Robotics](https://literacyworldwide.org/blog/literacy-now/2019/08/28/elevating-engagement-bringing-literacy-alive-with-robotics). EUTSLER, L. (2019, August 28)
7. [The maker movement: A learning revolution](https://www.iste.org/explore/In-the-classroom/The-maker-movement%3A-A-learning-revolution). Martinez, S. (2019, February 11)

**Station Activities:**

***Pick one activity to complete***

1. [Nancy Drew: Codes & Clues](http://www.nancydrewcodesandclues.com/)
2. [BlocksCAD](https://www.blockscad3d.com/)
3. [The Code Twins](https://www.skyward.com/codetwins#Characters)
4. [CS4FN Puzzle Book](https://cs4fndownloads.files.wordpress.com/2016/02/cs4fnpuzzlebook11.pdf)
5. [CS4FN Puzzle Book (Answers)](https://cs4fndownloads.files.wordpress.com/2016/02/cs4fnpuzzles1solutions.pdf)
6. [Challenge: Robots!](https://www.nationalgeographic.org/interactive/challenge-robots/)
7. [Coji Robot](https://play.google.com/store/apps/details?id=com.wowwee.coji)

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**This Week’s Discussion Questions:**

1. What did you know, what do you still want to know, and what did you learn about the provided topics?
2. Pick one station activity. Post a picture or video of the activity that you completed. Share your thoughts on completing the activity. Discuss how the chosen activity could be beneficial for 21st-century learners.
3. Respond to at least two of your peers; if possible, respond to peers that completed a different station activity.