

ENGINEERING

OPTION 1

INFRASTRUCTURE

Discuss the aspects that are taken into consideration when designing infrastructure. Include the process of project management.

ASSIGNMENT

- Create the framework of a modern residential home with classroom materials (popsicle sticks, cardboard, legos, etc.)

ADDITIONAL RESOURCES

- <https://www.thespruce.com/framework-4127807>
- <https://todayshomeowner.com/general/guides/house-framing-2/>

ENGINEERING

OPTION 2

AUTOMATION

Discuss the inner workings of the manufacturing industry with a focus on automatic machinery. Include the aspects engineers consider when designing a piece of machinery for a specific task

ASSIGNMENT

- In groups, create a blueprint for an existing piece of machinery in any STEAM field.

ADDITIONAL RESOURCES

- <https://www.monarch-innovation.com/machine-design-types-and-procedure>
- <https://www.edrawsoft.com/make-home-blueprints.html>
- <https://katanamrp.com/blog/how-to-read-manufacturing-blueprints/>