



STEP ONE: In a Zoom Breakout room, introduce yourselves. You will select a group leader, a recorder, a timekeeper, and a reporter.

Group leader - facilitate conversation and keep group members on task

Recorder - record any notes that might be needed to help the reporter

Timekeeper - make sure your group has enough time to complete the tasks

Reporter - report to the whole group

(5 minutes)







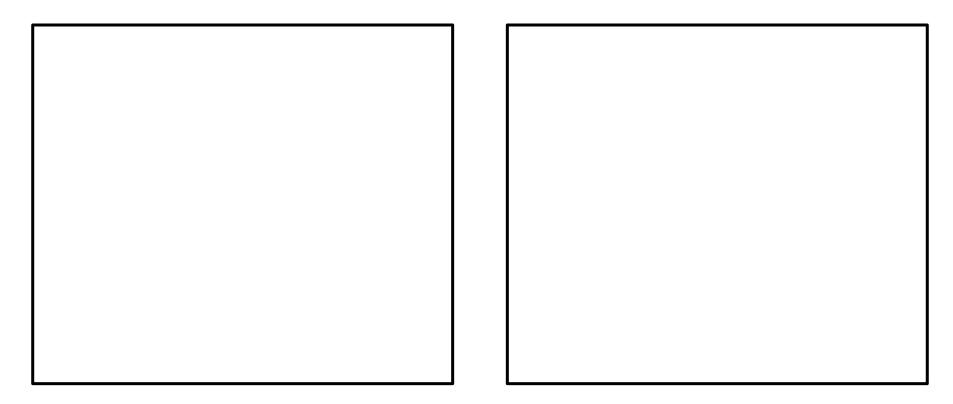
STEP TWO: Group leader come back to the main room to get your problem.

- 1. As a group, talk about the problem.
- 2. As a group, discuss constraints. **Recorder**, please record the possible constraints (on next slide).
- 3. As a group, brainstorm possibilities (on next slide). **Recorder,** you should also record these ideas on your shared Google slide.





Constraints v. Ideas



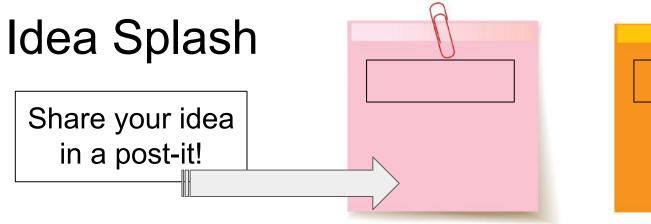


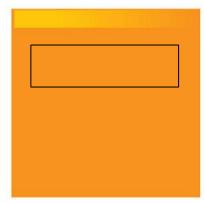
STEP THREE: Research

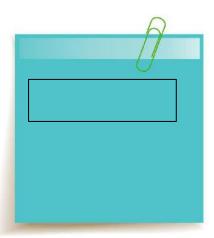
- Individually, turn off your cameras and spend some time researching some ideas. (15 minutes)
- 2. In 10 minutes, come back together and share out your research. **Recorder**, collect the information (on the next slide).

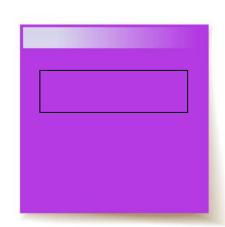










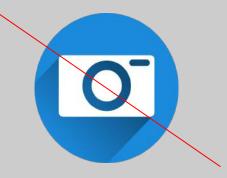




STEP FOUR: Gather materials, sketch a solution, build a prototype

- 1. **Individually,** turn off your cameras and spend five minutes going around your house and gathering materials. (5 minutes)
- 2. Individually, sketch a solution, considering your materials. (15 minutes)
- 3. Individually, build a prototype. (15 minutes)

(35 minutes total)







STEP FIVE: Share

- 1. As a group, come back together.
- 2. Take turns individually sharing your prototypes.
- 3. Provide each person with feedback on their prototype by using the following statements:

I notice... I wonder...

(15 minutes)







STEP SIX: Improve

- 1. As a group, choose which one you would like to improve/refine.
- 2. Work together to refine and improve.
- 3. We will share out your final product with the whole group for feedback. **Post** your final product on our <u>padlet here!</u>

(10 minutes)



