#MVHSMake

https://www.youtube.com/channel/UC-hZtA0UUEzndBMm1wlme4Q



Created playlists

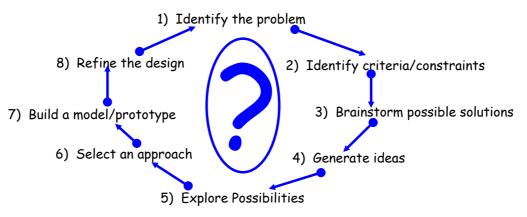


MakerSpace Project Tutorials

Vinyl Cutting Images	6:13
Beacons Next Step	1:51
Drone Payloads	1:24
View full playlist (28 videos)	

Engineering Design Process.pdf

Engineering Design Process...



- 1) State the challenge in your own words.
- 2) Specify the design requirements.
- 3) **Sketch your ideas to solve the problem.** Labels and arrows identify parts and how they move. These drawings should be quick and brief.
- 4) Develop two or three ideas more thoroughly. Create new drawings in 3D and be neat.
- 5) Share ideas among team members...discuss pros/cons and make note on your drawings.
- 6) Identify the best design to solve the problem and write a statement to justify your choice.
- 7) Construct a full size or scale model.
- 8) Evaluate the design based on criteria/constraints. Changes may be needed and identify any problems. Propose a solution by beginning at step (1) again!

Engineering Notebook...

- record ideas, inventions, experiments, observations and all work details.
- detailed notebooks can be used in a patent process.
- include details with dates...methods, designs, troubleshoots, observations.
- * someone should be able to read and understand your thought process!
- sign the bottom of the page whenever you start a new page.
- only you can write in your notebook.
- do not erase errors...just draw a single line through the entry with your initials.

Design Squad: Zipline Challenge





* Design Process...Journal

Challenge...

Design a ping pong carrier to go on a 4 foot zipline with a 2 foot drop in exactly 4 seconds!

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